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		48 49	*	TTLS	THE INSERT FILE				[01SEP79] [01SEP79]	
0		50 51 52	* * *	WF WILL	TURN THE LISTIN	G OFF FOR THE INSE	RT FILF		[01SEP79] [01SEP79] [01SEP79]	0
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0	W	58	PRODUCT TRACKING AND SOURCE ON	GENERAL INFO DEFINITIONS	RELEASED 01JAN81 [01SEP79]	0
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		W			SYMDEFS	AND SYMREFS	RELEASI	ED 01JAN81	\sim
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			67	*	SYMDEFS				\cup
			68 69	*	SYMDEF	EXTMO6	INSTRUCTION WHICH MUST BE FIXED FOR NON-EXTENDED M	EMORY	\bigcirc
			70		SYMDEF	EXTM07	INSTRUCTION WHICH MUST BE FIXED FOR NON-EXTENDED M	EMORY	O
		٥r	71 72		S Y M D E F A P R O C	N\$CONX SYMDEF,N\$FV	ADDR OF INST WHICH HANDLES CONNECT FAULTS, DELETED FAULT TRANSFER VECTORS	EQUISEP793	$\overline{}$
		00	72		SYMDEF	N\$FVO	THOSE THANSTER VECTORS		0
			73		S Y M D E F S Y M D E F	N\$FV1 N\$IC	TALLY TO IC/IR STACKS	[14MAY77]	
		0.0	74		APROC	SYMDEF,N\$IC	IC/IR STACK TALLIES	[01SEP79]	O
					S Y M D E F S Y M D E F	N\$ICO N\$IC1			\bigcirc
			75		SYMDEF	N\$10B	TABLE OF JOB NUMBERS CURRENTLY EXECUTING IN CPUS		Ŏ
			76 77		S Y M D E F S Y M D E F	N\$NOINT N\$REG	MASK TO TURN OFF INTERRUPTS POINTER TO PLACE TO SAVE REGISTERS		
			78		SYMDEF	N\$RET	ROUTINE TO RETURN TO SLAVE JOB		O
			79 80		S Y M D E F S Y M D E F	N\$SDIC N\$SDREG	PLACE TO SAVE SHUTDOWN IC PLACE TO SAVE SHUTDOWN REGISTERS		
0		0.0	00000 81		APROC	SYMDEF, N\$SIC	SLAVE FAULT IC/IR	[01SEP79]	O
					S Y M D E F S Y M D E F	N\$SICO N\$SIC1			
			82		SYMDEF	N\$ SWAIT	THE PLACE TO GO IF THERE ARE NO JOBS TO RUN		\circ
			83 84		S Y M D E F S Y M D E F	TSOP05 TSOP06	PLACE TO SAVE UPSHIFT INSTRUCTION ON 66/X7 PLACE TO SAVE UPSHIFT INSTRUCTION ON 66/X7		
			85		SYMDEF	X\$QLOCK	SEMAPHORE SEIZE ROUTINE		O
ļ			86 87	*	SYMDEF	X \$ Q N L C K	SEMAPHORE RELEASE ROUTINE		<u> </u>
0			88	*	SYMREFS				0
			89 90	*	SYMREF	A\$PFO	FLAG NON-ZERO IF EXEC IS LOW ON LIST ELEMENT ST	ORAGE ·	
0			91		SYMREF	EXTMEM	FLAG NON-ZERO IF RUNNING WITH EXTENDED MEMORY	[08AUG77]	0
			92 93		S YMRE F S YMRE F	I\$FLOG I\$LOG	FLAG NON-ZERO IF LOG OUTPUT TO FILE ONLY ROUTINE TO LOG MESSAGES TO CONSOLE AND LOG FILE		0
			94		SYMREF	J\$BIT	JOB TABLE BITS FOR JOB	504 MADA 3	O
			95 96		S YMREF S YMREF	J\$JSFLG J\$LEN	JOB TABLE FLAG THAT JOB NEEDS SERVICE JOB TABLE LENGTH/LOCATION OF JOB	E01JAN81.3	0
0			97		SYMREF	J\$LOC	JOB TABLE LENGTH/LOCATION OF JOB	i	0
			98 99		S Y M R E F S Y M R E F	J\$LOCS J\$RQ	JOB TABLE LENGTH/LOCATION OF STATE VECTOR JOB TABLE LINK FOR RUN QUEUE AND PROCESSING QUE	UE	Ä
			-+100		SYMREF	J\$RAN	JOB TABLE JOB NUMBER OF JOB RESPONSIBLE FOR US	[01JAN81]	0
			+101 102		S Y M R E F S Y M R E F	J\$CTMEL JSQI	JOB TABLE TIMERS ELIGIBLE FOR CREDIT JOB TABLE INSERT POINTER FOR JOB SERVICE QUEUE	E18NAL103 E18NAL103	0
			103		SYMREF	PROC	TABLE CONTAINING SCU PORT NUMBERS OF PROCESSORS	[01SEP80])
			104 105		S Y M R E F S Y M R E F	RQF W\$SWPIC	JOB TABLE POINTER TO FIRST JOB ON RUN QUEUE NUMBER OF SWAPINS IN PROGRESS	[14MAY77]	
			106		SYMREF	X \$ DABL	MASK TO DISABLE I/O INTERRUPTS		
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0	O NCONTROL 08/28/81 22:41:13 DTSS EXECUTIVE (INSERT SEGMENT) DTSS TRADE SECRET	PAGE 6	0
_	SYMDEFS AND SYMREFS	RELEASED 01JA	
0	107 SYMREF X\$ENABL BITS TO ENABLE I/O INTERRUPTS 000000 108 APROC SYMREF,X\$FTV FAULT VECTORS	[01SE	_
0	SYMREF X\$FTVO SYMREF X\$FTV1		Ó
	109 SYMREF X\$GTIM ROUTINE TO RETURN TIMER UNITS SINCE BOOTLO 110 SYMREF X\$HANG FLAG NON-ZERO WNEH SYSTEM HUNG (DON*T) 111 SYMREF X\$IDLEA STAS TIME SYSTEM IS IDLE		0
0	112 SYMREF X\$MCHEK ROUTINE TO CHECK MEMORY FOR CONSISTENCY 113 SYMREF X\$MEM ADDRESS OF MEMORY FOR ISSUING RMCM/SMCM CO 114 SYMREF X\$NCQC STATS NUMBER OF JOBS ON NON-CORE QUEUE		Y777] O
0	115 SYMREF X\$OVERH STATS EXEC OVERHEAD 116 SYMREF X\$RQC STATS NUMBER OF JOBS ON RUN QUEUE 117 SYMREF X\$SWPCT STATS		0
0	120 SYMREF X\$TIMQ ADDRESS OF FIRST TASK ON TIMED TASK QUEUE		0
0	123 SYMREF ZSCUHIS CONTROL UNIT HISTORY REGISTERS	E 0 8 A U	06773
0	126 SYMREF Z\$FTYPE FAULT TYPE FROM CRASHING PROCESSOR	E 0 5 NO	0
0	129 SYMREF ZSINTC CRASH AND DIE INTERRUPT PAIR		0
0	132 SYMREF Z\$MDREG MODE REGISTER FROM CRASHING PROCESSOR	LA 8 0 3	
0	133 SYMREF Z\$OUHIS OPERATIONS UNIT HISTORY REGISTERS 134 SYMREF Z\$PROC CRASHING PROCESSOR 135 SYMREF Z\$REG REGISTERS FROM CRASH 136 SYMREF ZOPF A WORD WHICH, WHEN REFERENCED INDIRECTLY.	E05NC	
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O NCONTROL	08/28/81 2	22:41:13	DTSS EXECUT	IVE (INSERT			DTSS TRADE S	ECRET		7	0
0		137			STACKS EC ENTRY	STACKS			RELEASE	D 01 JAN81	0
0		138 139 140	* * *		USAGE FOR 6000	AND SERIES 6	6 PROCESSORS			[05N0V77] [05N0V77] [05N0V77]	0
0		141 142 143	* * *	PRIORITY 4	INTERRUPT SYSTEM FAULT					[05N0V77] [05N0V77] [01SEP80]	0
0		144 145 146	* *	12 20 28	INITIATE/TERM MARKER(USED T SPECIAL		ER)			[01SEP80] [01SEP80] [05NOV77]	Ö
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_			MULTIPROC	ESSING STACKS,	TEMPS, AND SUCH	RELEASED 01JAN81	\sim
0		148 149			STACKS, TEMPS, AND SUCH		O
0		150	HEAD N				0
		152 *	CURRENT J	OB FOR EACH PRO	OCESSOR		
\circ	00000	153 * 154 JOB	NULL				\Diamond
\bigcirc	000000	155 156 *	BSS \$	NPROS			0
		157 * 158 *			STACKED. IF A FAULT OCCURS IN THE MAY OVERFLOW. AN EXTRA LEVEL OF	[01MAY79] [01MAY79]	
\circ		159 *	INDIRECTI	ON IS USED SO	THAT A FAULT WILL OCCUR	E01MAY793	0
		160 * 161 *	IN THE IN	IIEKKUPI/FAULI (CELL, HANGING THE CP.	[01 MA Y79]	
0		162 SIC 163	MACRO OCT O)	BUFFER FOR ERROR TRACING		0
		164	OCT C)	STARTUP FAULT IC CELL SHUTDOWN FAULT IC CELL		
0		165 166 SIC#1	OCT O		USER FAULT IC/IR		\circ
0		167 168	ENDM S	S I C		[01MAY79]	0
\mathcal{O}		169 * 170 SICP		ON FOR STACK PROC#>		[01MAY79] [01MAY79])
0		171	DUP 1	, 8	CAPTURE A SERIES OF INTERRUPTS CAUSE FAULT ON OVERFLOW	E O 1 MA Y 7 9 J E O 1 MA Y 7 9 J	0
		172 173	ARG S), F ; I C # 1 - 3	POINTER TO ERROR ENTRY	[01MAY79]	
0		174 175		I C#1-2 I C#1-1	" "STARTUP" " SHUTDOWN"	[01MAY79] [01MAY79]	0
\sim		176 SICP#1 177		SIC#1-0 SICP	" USERFAULT "	[01MAY79] [01MAY79]	
\circ		178				[01MAY79]	0
\bigcirc	000002 00000000000	179 * 180	OCT O		(SLIGHTLY LARGER) BUFFER TO CATCH ERRORS	[01,MAY79]	
)	000003 00000000000	181 182	OCT O		STARTUP FAULT SHUTDOWN FAULT		V
0	000005 000457 004200 R.	183	ZERO N		+M\$MMODE MASTER INTERRUPT - INITIALIZED		\circ
	000006 000000000000	184 SICO 185	ост О	J	SLAVE FAULT/INTERRUPT	[01MAY79]	
0	000007 000000 0000 40	186 187		,8 I,F	CAPTURE A SERIES OF INTERRUPTS CAUSE FAULT ON OVERFLOW	[01MAY79] [01MAY79]	0
_	000010 000000 0000 40		ARG 0)	CAUSE FAULT ON OVERFLOW CAUSE FAULT ON OVERFLOW	<u>-</u>	~
0	000012 000000 0000 40		ARG O),F	CAUSE FAULT ON OVERFLOW		O
\cap	000013 000000 0000 40),F),F	CAUSE FAULT ON OVERFLOW CAUSE FAULT ON OVERFLOW		0
)	000015 000000 0000 40),F	CAUSE FAULT ON OVERFLOW CAUSE FAULT ON OVERFLOW		
0	000017 000002 0000 00 R.	188	ARG S	I CO-4	POINTER TO ERROR ENTRY	[01MAY79]	\bigcirc
	000020 000003 0000 00 R. 000021 000004 0000 00 R.	189 190	ARG S	3 I CO - 3	" SHUTDOWN "	[01 MA Y79] [01 MA Y79]	
\circ	000022 000005 0000 00 R. 000023 000006 0000 00 R.	191 192 SICPO		31CO-1 31CO-0	" " MASTER INTERRUPT " USERFAULT "	C01MAY79J C01MAY79J	Ö
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		N			MULTIPR	OCESSING STACKS	, TEMPS, AND SUCH	RELEAS	ED 01JAN81	
0			193						E01MAY793	0
			194 195	*	NON-CON	TROL PROCESSORS			[01MAY79] [01MAY79]	
0		000024 000024	196	Î	S PROC S I C	SIC 1			[01MAY79]	0
0	000024 000025	000000000000			0 C T 0 C T	0	BUFFER FOR ERROR TRACING STARTUP FAULT IC CELL			\circ
	000025	000000000000000000000000000000000000000			0 C T	0 0	SHUTDOWN FAULT IC CELL			
0	000027	00000000000	197	SIC1	O C T S P R O C	0 SICP	USER FAULT IC/IR		[01MAY79]	0
		000030	171		SICP	1				
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	000037 000040	000000 0000 40 000024 0000 00 R.			ARG	0,F	CAUSE FAULT ON OVERFLOW POINTER TO ERROR ENTRY			
0	000041	000025 0000 00 R.			ARG ARG	SIC1-3 SIC1-2	" "STARTUP"			0
	000042 000043	000026 0000 00 R. 000027 0000 00 R.		SICP1	A R G A R G	SIC1-1 SIC1-0	" "SHUTDOWN " " USERFAULT "			
0	000043	000021 0000 00 K.	198	*)
0			199 200	* *	TALLY P	OINTERS FOR STA	CKS			\bigcirc
			201 202	I C I C # 1	MACRO	SICP#1,0,*	TALLY WORD FOR IC STACK		[01MAY79]	O
0			203	10#1	ENDM	IC	TALLY WORD FOR IC STACK		E01MAY793	0
)		000044	204 205	ΙC	NULL				[01MAY79] [01MAY79]	•
0	000044	000022 0001 20 R.	206 207	100		SICPO-1,1,*	CONTROL PROCESSOR SET FOR STARTUP		[01MAY79] [01MAY79]	0
		000045	208		SPROC	I C	NON-CONTROL PROCESSORS			•
	000045	000045 000043 0000 20 R.		I C 1	I C T A L L Y C	1 SICP1,0,*	TALLY WORD FOR IC STACK			0
			209 210	*	DECTOTE	R STORAGE AREAS				\sim
			211	*		N STORAGE AREAS				\mathcal{O}
			212 213	SREGS	MACRO EIGHT					0
0			214	SREG#1	BSS	8	REGISTER STORAGE ON FAULT			
			215 216		BSS ENDM	8 SREGS	SHUTDOWN REGISTER STORAGE			Ö
0			217	REGP	MACRO			4)
0			218 219		A R G E N D M	SREG#1 REGP				\circ
			220 221	SDREG	M A C R O A R G	SREG#1+8	SHUTDOWN REGISTER STORAGE			
0			222		ENDM	SDREG				
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	\circ		000070		SREGS	1			0
			000070 000070	SREG1	EIGHT BSS	8	REGISTER STORAGE ON FAULT		
	0		000100	311201	BSS	8	SHUTDOWN REGISTER STORAGE		0
	\cup		000110	224	EIGHT				\circ
	_		000440	225	HEAD	N	DOTHER C. FOR FAIL TO		
	\circ		000 11 0 000 11 0	226 REG	A P R O C R E G P	REGP O	POINTERS FOR FAULTS		0
ì		000110	000050 0000 00 R.		ARG	SREGO			
	\circ		000111		REGP	1			Ö
	_	0001:11	000070 0000 00 R.	227 MDEC	ARG	SREG1	DOINTEDE TO MACTED MODE DECISTED STORAGE		_
	\circ		000112 000112	227 MREG	A P R O C R E G P	REGP O	POINTERS TO MASTER MODE REGISTER STORAGE		\circ
	\circ	000112	000050 0000 00 R.		ARG	SREGO			\circ
			000113		REGP	1			
	\circ	000113	000070 0000 00 R. 000114	228 CNDEC	A R G A P R O C	SREG1	POINTERS FOR SHUTDOWN FAULTS		\circ
			000114	228 SDREG	SDREG	SDREG O	POINTERS FOR SHUTDOWN FAULTS		
	0	0001:14	000060 0000 00 R.		ARG	SREGO+8	SHUTDOWN REGISTER STORAGE		0
			000115		SDREG	1			
	$\overline{}$	000115	000100 0000 00 R.	229 *	ARG	SREG1+8	SHUTDOWN REGISTER STORAGE		$\overline{}$
ı	\circ			230 *	MISCEL	LANEOUS FOR SHUT	DOWN FAULTS		\bigcirc
!				231 *					
	\circ	•	000116	232 SDBAR	BSS	\$NPROS	SAVED BAR ON SHUTDOWN FAULT		\circ
			000120	233 SDIC 234	NULL DUP	1.SNPROS			
	0	000120	00000000000	235	OCT	0	IC ON SHUTDOWN FAULT		0
	\mathbf{O}	000121	00000000000		ОСТ	0	IC ON SHUTDOWN FAULT		
	_		000122 000122	236	EVEN	2	CONTROLLED MACK ON CHUTNOHN		_
	\circ		000122	237 SDMCM 238	BSS	2	CONTROLLER MASK ON SHUTDOWN		\circ
				239 SDT	MACRO				
	\circ		•	240	XED	X\$FTV#1+0	FAKE A SHUTDOWN FAULT		\circ
			000124	241 242 SDT	E N D M A P R O C	SDT SDT	FOR SLAVE SHUTDOWN FAULTS		
	0		000124	242 301	SDT	0	FOR SERVE SHOTDOWN FROCTS		0
	\cup	000124	000000 7170 00 X.		XED	X\$FTV0+0	FAKE A SHUTDOWN FAULT		\cup
1		200425	000125		SDT	1			
	\circ	000125	000000 7170 00 X.	243 *	XED	X \$ FT V 1 + O	FAKE A SHUTDOWN FAULT		\circ
ı				244 *	SEMAPH	ORE LOCK/UNLOCK	ROUTINES	[1700 T76]	
	0			245 *					\circ
				246	HEAD	X			_
			000126	247 248 QLOCK	EVEN				\sim
	0			249	INHIB	0 N	DON®T INTERRUPT WITH SEMAPHORE SIEZED	[01SEP80]	Ö
	_								±.
	\bigcirc								\circ

0										0
0										0
0	NCONTROL	08/28/81	22:41:	13 D	TSS EXECU	TIVE (IN	SERT SEGMENT)	DTSS TRADE SECRET	PAGE 11	0
		X				MULTIP	ROCESSING STACKS	, TEMPS, AND SUCH	RELEASED 01JAN81	
0	000126 000127			250 251 252		SZNC TMI INHIB	QLKWD O • O O F F	ATTEMPT TO LOWER SEMAPHORE RETURN IF WE GOT IT	[08AUG77] [08AUG77] [08AUG77]	. 0
0	000130	000000 7740 000000 7740		253 254		GTB GTB		DELAY DELAY	[08AUG77]	0
0	000132 000133	000126 7100	00 R. 07	255		TRA	QLOCK	AND TRY AGAIN		Ö
0	000134 000135	000001 3360	0134 0 07 0 00 R.	256 257 258	QNLCK	EVEN LCQ STQ	1 / DL QLKWD	GET A MINUS ONE UP SEMAPHORE	[08AUG77]	0
0				259 260 261	* * *	THE QL	OCK SEMAPHORE WO	DR D		0
0	000136	7777777777	76	262 263	* QLKWD	DEC	-2			Ö
0										0
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0	NCONTROL 08/28/81 22:41	:13 DTSS EXE	CUTIVE (IN	SERT SEGMENT)	DTSS TRADE SECRET	PAGE 12	0
	X		MULTIP	ROCESSING - FAU	ILT RECOGNITION	RELEASED 01JAN81	_
0		264	TTLS	MULTIPROCESSI	NG - FAULT RECOGNITION		0
		265 266	HEAD	N			$\widehat{}$
0		267	INHIB	ON	SENSITIVE CODE	[01SEP80]	0
,		268 * 269 *	THIS C	ONE IS ENTEDEN	FROM THE MASTER MODE FAULT		
		270 *			A PAIR OF INSTRUCTIONS SUCH		0
		271 * 272 *	AS				
		273 *	STC1	IC#N,DIC	SAVE IC	E01MAY793	0
		274 * . 275 *	TRA	*/2-FTV#N/2+F	V # N		$\overline{}$
		276 FV	MACRO				0
		277 278 FV#1	EIGHT		FOR HANDY DEBUGGING		<u>~</u>
0		278 FV# 1 279	NULL DUP	1,16	IMAGE OF FAULT VECTOR		0
_		280 281	XED	FREG#1	SAVE REGS AND REMEMBER CPU NUMBER		
		282 FREG	E N D M M A C R O	FV			0
		283	EVEN SPEC	DEC1#4 1	SAVE USER REGISTERS	[09DEC79]	_
		284 FREG 285	#1 SREG TSXO	REG+#1,I *+1	REMEMBER FAULT NUMBER	£040£€743	0
		286	LDX	P,#1,DU	SET P TO CPU NUMBER		
		287 288	SBXO TRA	FV#1+1,DU ENTER	GET ACTUAL FAULT NUMBER IN XO ENTER COMMON FAULT HANDLER		Q
	200477	289	ENDM	FREG			
0	000137 000137	290	APROC FV	FV			0
	000137 000001710204		FIGUE		FOR HANDY DERUGGING		
	000140 000140	FVO	E I GHT NULL		FOR HANDY DEBUGGING IMAGE OF FAULT VECTOR		\circ
			DUP	1,16			
O	000140 000200 7172 00 R. 000141 000200 7172 00 R.		X E D	FREGO FREGO	SAVE REGS AND REMEMBER CPU NUMBER SAVE REGS AND REMEMBER CPU NUMBER		O
	000142 000200 7172 00 R.		XED	FREGO	SAVE REGS AND REMEMBER CPU NUMBER		_
0	000143 000200 7172 00 R. 000144 000200 7172 00 R.		X E D	FREGO FREGO	SAVE REGS AND REMEMBER CPU NUMBER SAVE REGS AND REMEMBER CPU NUMBER		0
	000145 000200 7172 00 R.		XED	FREGO	SAVE REGS AND REMEMBER CPU NUMBER		
	000146 000200 7172 00 R. 000147 000200 7172 00 R.		X E D X E D	FREGO FREGO	SAVE REGS AND REMEMBER CPU NUMBER SAVE REGS AND REMEMBER CPU NUMBER		0
	000150 000200 7172 00 R.		XED	FREGO	SAVE REGS AND REMEMBER CPU NUMBER		
0	000151 000200 7172 00 R. 000152 000200 7172 00 R.		X E D X E D	FREGO FREGO	SAVE REGS AND REMEMBER CPU NUMBER SAVE REGS AND REMEMBER CPU NUMBER		0
	000 1 53 000200 7172 00 R.		XED	FREGO	SAVE REGS AND REMEMBER CPU NUMBER		
0	000154 000200 7172 00 R. 000155 000200 7172 00 R.		X E D X E D	FREGO FREGO	SAVE REGS AND REMEMBER CPU NUMBER SAVE REGS AND REMEMBER CPU NUMBER		0
	000156 000200 7172 00 R.		XED	FREGO	SAVE REGS AND REMEMBER CPU NUMBER		
0	000157 000200 7172 00 R. 000160		X E D F V	FREGO 1	SAVE REGS AND REMEMBER CPU NUMBER		\circ
	000160		EIGHT	•	FOR HANDY DEBUGGING		
0	000160	F V 1	NULL DUP	1,16	IMAGE OF FAULT VECTOR		\circ
			· -				
0	•						\bigcirc

0										1	0
0	NCONTROL	08/28/81	22:41:13	DTSS EXECU	TIVE (IN	SERT SEGMENT)	DTSS TRADE SECRET	PAG	E 13		\circ
0		N			MULTIP	ROCESSING - FAUL	T RECOGNITION	REL	EASED O1JA	N81	0
0	000160 000161 000162 000163	000206 7172 000206 7172 000206 7172 000206 7172	00 R. 00 R. 00 R.		X E D X E D X E D	FREG1 FREG1 FREG1 FREG1	SAVE REGS AND REMEMBER CPU NUMBE	R R			0
0	000164 000165 000166 000167	000206 7172 000206 7172 000206 7172 000206 7172	00 R. 00 R.		X E D X E D X E D X E D	FREG1 FREG1 FREG1 FREG1	SAVE REGS AND REMEMBER CPU NUMBE SAVE REGS AND REMEMBER CPU NUMBE SAVE REGS AND REMEMBER CPU NUMBE SAVE REGS AND REMEMBER CPU NUMBE	R R			0
0	000170 000171 000172	000206 7172 000206 7172 000206 7172	00 R. 00 R. 00 R.		X E D X E D X E D	FREG1 FREG1 FREG1	SAVE REGS AND REMEMBER CPU NUMBE SAVE REGS AND REMEMBER CPU NUMBE SAVE REGS AND REMEMBER CPU NUMBE	R R R			0
0 (000173 000174 000175 000176	000206 7172 000206 7172 000206 7172 000206 7172	00 R. 00 R.		X E D X E D X E D	FREG1 FREG1 FREG1 FREG1	SAVE REGS AND REMEMBER CPU NUMBE SAVE REGS AND REMEMBER CPU NUMBE SAVE REGS AND REMEMBER CPU NUMBE SAVE REGS AND REMEMBER CPU NUMBE	R R			O,
0 0	000177	000206 7172 0002 0002	00 R. 200 2	91	X E D A P R O C F R E G	FREG1 FREG	SAVE REGS AND REMEMBER CPU NUMBE				0
0	000200 000201 000202	0000 000110 7532 000202 7002 000000 2262	51 R. 00 R.	FREGO	EVEN SREG TSXO LDX	REG+0,I *+1 P,0,DU	SAVE USER REGISTERS REMEMBER FAULT NUMBER SET P TO CPU NUMBER				0
0	000203 000204	000141 1602 000213 7102 0007	03 R. 00 R. 205		SBXO TRA FREG	FVO+1,DU ENTER 1	GET ACTUAL FAULT NUMBER IN XO ENTER COMMON FAULT HANDLER				0
0	000205 000206 000207	000000011207 0007 000111 7532 000210 7002	206 51 R.	FREG1	EVEN SREG TSXO	REG+1,I *+1	SAVE USER REGISTERS REMEMBER FAULT NUMBER				O
0	000210 000211 000212	000001 2262 000161 1602 000213 7102	03 R. 00 R.		LDX SBXO TRA	P,1,DU FV1+1,DU ENTER	SET P TO CPU NUMBER GET ACTUAL FAULT NUMBER IN XO ENTER COMMON FAULT HANDLER				0
0		0007	213 2	92 FREGX	NULL		NOTE END OF VULNERABLE AREA				0
0											0
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O N.C.	ONTROL	08/28/81 22:41:	13 DTSS EXE	CUTIVE (IN	NSERT SEGMENT)	DTSS TRADE SECRET PAGE	14
\sim		N		N O N — C (ONTROL PROCESSOR	EXECUTIVE	SED 01JAN81
)			293	TTLS		OCESSOR EXECUTIVE	
			294 295	HEAD	N	N FOR NON-CONTROL	
			296 * 297 *	THIS	POUTINE PUNS IN A	ALL NON-CONTROL PROCESSORS, AND IN THE	
			298 *	CONTRO	L PROCESSOR WHEN	THE CONTROL PROCESSOR ROUTINES ARE	
			299 * 300 *			FROM THE SLAVE INPUT QUEUE (\$RQF) THEM TO THE CONTROL EXEC.	
			301 ★		THE MEYORNO		
		000213	302 ENTE 303	R NULL INHIB	0 N	ENTER HERE FROM FAULT PROCESSING ROUTINE SENSITIVE CODE	[01 SEP80]
)			304 ★				
			305 * 306 *	CHECK	FOR MASTER MODE	FAULT	
	000213	000653 6072 00 R.	307	TTF	MFT	SKIP OUT IF MASTER MODE FAULT	
	000214	000214	308 ENT(309) NULL LDI	M\$OVMSK+M\$MMOD	ENTRY AFTER MASTER LOCKUP FAULT DE/DL MASK OFF OVERFLOWS	
			310 *				
			311 **** 312 *ION		*******		
)			313	IFE	IOMFLG,1,%MARK		
	000215	000000 0112 03	314 * 315 TSOF	05 NOP	0 , DU	SPACE FOR LCPR INST. ON 66/X7	[300EC76]
)	000216	001030 6742 04 R.	316	LCPR	UNLCK,04	UNLOCK THE HISTORY REGS ON A SLAVE FAULT	
	000217	001026 4522 01 R.	317 318	SCPR	JUNK > 01	SAVE FAULT REGISTER TO CLEAR IT	
)			319 *	, , , , , , , , , , , , , , , , , , , 			
			320 MARK 321 *10M				
)			322 **** 323 *	******	******		
			324 *				
			325 * 326 *	FAULT	FROM SLAVE MODE	- SAVE IC AND REGISTERS	100 miles
			327 *				[1700776]
)			328 * 329 *	SLAVE	MODE FAULT HAND	LING	[170CT76] [170CT76]
			330 *			LT; MOST FAULTS ARE RETURNED TO THE USER.	[1700776]
			331 * 332 *	SOME	CAUSE THE JOB TO	BE RETURNED TO MASTER EXEC PROCESSING.	E170CT763 E170CT763
	000220	000000 2252 16 R.	333	LDX	J,J08,P	GET THE NUMBER OF THE JOB ACTIVE IN THIS PROCESSO	R [1700T76]
	000221 000222	000110 2272 16 R. 000112 2352 16 R.	334 335	L D X L D A	S,REG,P MREG,P	GET A POINTER TO THE STATE VECTOR OF THAT JOB GET THE ADDRESS OF THE MASTER MODE REGISTER SAVE	[170CT76]
	000223	000110 7552 16 R.	336	STA	REG.P	SET IT UP AS THE REGULAR POINTER	[170cT76]
	000224	000020 1000 03	337 338	INHIB CMPXO	0 F F 1 6 , D U	END OF DANGER ZONE IS THE FAULT IN RANGE?	[170CT76] [170CT76]
	000225	000000 6030 20 X.	339	TRC	\$ZOPF **	IF NOT, WE BLEW IT	[170CT76]
)	000226	000227 7100 30 R.	340 341 *	TRA	*+1,0*	BRANCH ON FAULT TYPE	[170CT76] [170CT76]
			342 *	TRANSF	ER TABLE		[170CT76]
)	000227	000247 7100 00 R.	343 * 344	TRA	SSDF	SHUTDOWN FAULT STOP THIS PROCESSOR	[1700T76] [1700T76]
			-	, ,,,,,		3101 20 WH 1710E1 3101 11123 1 NOCE330N	

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0	NCONTROL	08/28/81	22:41:13	S DTS	SS EXECUT	IVE (IN	SERT SEGMENT)	DTSS TRADE SECRET	PAGE 1	5
_		N				NON-CO	NTROL PROCESSOR	EXECUTIVE	RELEASE	D 01JAN81
\circ	000230	000272 710	0 00 8.	345		TRA	USERF	MEMORY FAULT RETURN TO USER		[170cT76]
	000231	000253 710		346		TRA	MME	MME FAULT QUEUE FOR MASTER EXEC PRO		
\bigcirc	000232	000272 710		347		TRA	USERF	FAULT TAG RETURN TO USER		[170CT76]
\circ	000233	000322 710		348		TRA	CONT	TIMER FAULT IGNORE, BUT RETURN JOB	TO MASTER E	
	000234	000267 710		349		TRA	CMD	COMMAND FAULT RETURN TO USER, CRASH		
\bigcirc	000235	0'00272 710		350		TRA	USERF	DERAIL RETURN TO USER		[170CT76]
0	000236	000272 710		351		TRA	USERF	LOCKUP RETURN TO USER		[170CT76]
	000237	000260 710		352		TRA	CON	CONNECT IGNORE, BUT RETURN JOB TO M	MASTER EXEC	[170CT76]
0	000240	000264 710		353		TRA	PAR	PARITY RETURN TO MASTER EXEC TO BE		[1700 T76]
\cup	000241	000272 710	0 00 R.	354		TRA	USERF	ZOP FAULT RETURN TO USER		[170CT76]
	000242	000272 710	0 00 R.	355		TRA	USERF	ONC FAULT RETURN TO USER		[170cT76]
\circ	000243	000000 710	0 20 X.	356		TRA	\$20PF,*	STARTUP FAULT (NEVER FROM SLAVE MODE)		[1700 T76]
$\overline{}$	000244	000272 710	0 00 R.	357		TRA	USERF	OVERFLOW FAULT RETURN TO USER		[170cT76]
	000245	000272 710	0 00 R.	358		TRA	USERF	DIVIDE CHECK FAULT RETURN TO USER		[1700 T76]
\circ	000246	000000 710	0 20 X.	359		TRA	\$ZOPF,*	EXECUTE FAULT SOMEBODY HIT THE BUT	ΓΟΝ	[1700 T76]
$\overline{}$				360	*					[1700776]
				361	*			RETURN SLAVE JOB TO MASTER PROCESSOR		[1700176]
\circ				362	*	AS TH	OUGH ITS TIMER !	HAD RUN OUT. THEN SHUT DOWN THIS PROCESSON	₹	[170CT76]
$\overline{}$				363	*					[1700 176]
			0247	364	SSDF	NULL				[1700776]
0	000247	000004 221		365		LDX	X,B\$TROF,DU	TELL MASTER EXEC TO RESCHEDULE		[170cT76]
$\overline{}$	000250	000035 741		366		STX	X,S\$FTYPE,S	SET REASON FOR RETURN IN STATE VECTOR		[1700776]
	000251	001014 554		367		STC1	SDFG,P	FLAG PROCESSOR AS SHUTTING DOWN		[1700 176]
\circ	000252	000322 710	0 00 R.	368		TRA	CONT	COMMON FAULT CLEANUP		[1700776]
~				369	*					[1700776]
				370	*			IS SQUEEZED, RETURN FAULT. OTHERWISE,		[1700 176]
\bigcirc				371	*	RETURN	JOB TO MASTER I	EXEC FOR PROCESSING.		[1700 176]
_				372	*					[1700776]
			0253	373	MME	NULL				[1700 T76]
\bigcirc		000031 234		374		SZN	S\$BARS,S	WAS JOB SQUEEZED?		[170CT76]
	000254	000272 601		375		TNZ	USERF	IF SO, HANDLE LIKE OTHER USER FAULTS		[170CT76]
	000255	000001 221		376		LDX	X,B\$MME,DU			[170CT76]
\bigcirc	000256	000035 741		377		STX	X,S\$FTYPE,S	SET REASON IN STATE VECTOR		[170CT76]
	000257	000322 710	0 00 R.	378		TRA	CONT	COMMON FAULT CLEANUP		[170CT76]
				379	*	C 0 11 11 E 0	T CALL T DO	THEN CLAVE LOD TO MARTED DECOCOS AS		[170CT76] [170CT76]
\circ				380	*			TURN SLAVE JOB TO MASTER PROCESSOR AS RUN OUT. THEN PICK UP FIRST JOB ON RQ.		[1700176]
				381 382	*	1 HUUGH	INC ITMEK HAD	WOW OUT THEM FICK OF FIRST JOB ON KM.		[1700176]
_		0.0	0260	383	* CON	N: 13.1 J				[170CT76]
\circ	000260	000017 054		384	CON	NULL AOS	X\$SWPCT+15	COUNT CONNECT FAULTS PROCESSED		[01FEB77]
	000261	000004 221		385		LDX	X DSTROF DU	TELL MASTER EXEC TO RESCHEDULE		[1700176]
_	000261	000004 221		386		STX	X,S\$FTYPE,S	SET IN JOBS STATE VECTOR		[1700776]
\circ	000262	000033 741		387		TRA	CONT	COMMON FAULT CLEANUP		[170CT76]
	000203	000055 110	O OO R.	388	*	H Zi i	CONT	COMPON TROCT CLEANUR		[170CT76]
_				389	*	DADITV	FΔ111 C1 A1	VE JOB WILL BE ABORTED RETURN TO MASTER	EXEC	[170CT76]
\bigcirc				390	*	ENUTII	INULI SLA	VE 900 WILE DE ADDRIED REIDRIN ID MASIER	CALU	[1700776]
		nn	0264	391	* PAR	NULL				[170CT76]
~	000264	000003 221		392	EWK	LDX	X.B\$PAR.DU	GET THE PARITY FAULT CODE		[170CT76]
\circ	000265	000003 221		393		STX	X/S\$FTYPE/S	SET IT IN THE STATE VECTOR		[170CT76]
	000266			394		TRA	CONT	COMMON FAULT CLEANUP		[1700176]
	000200	000022 110	0 00 K .	395	*	1 11/71	COITI	COMMON TROCT CEERNOT		[01FEB77]

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0	NCONTROL	08/28/81	22:41:1	3	DTSS EXECUT	IVE (IN	SERT SEGMENT)	DTSS TRADE SECRET	PAGE 16	5
_		N				N O N — C O	NTROL PROCESSOR	EXECUTIVE	RELEASE	01JAN81
0				397 398	*	ONE O	F THESE, CRASH T	HE SYSTEM.		[01FEB77] [01FEB77]
0		000		399	CMD	NULL				[01fEB77]
_	000267 000270	000000 2210 000002 1010		+400 +401		L D X C M P X	X,J\$RAN,J X,2,DU	IF IT'S ABOVE THE MONITOR LEVELCRASH THE SYSTEM		[18/ALTO]
\circ	000271	000667 6020		+402 403		TNC	MFT1	OTHERWISE PROCESS LIKE ANY OTHER FA	N++11 T	CO1JAN813 CO1FEB773
				404	*				40L /	[170CT76]
0				405 406	*			JOB RECEIVES A FAULT BY HAVING ITS HE FAULT SAVED IN THE FIRST WORD OF	THE	[170CT76] [170CT76]
\bigcirc				407 408	*			IN HIS LOW CORE AND CONTROL PASSED TRST WORD OF THE FAULT CELL IS NON-ZE		[1700T76] [1700T76]
0				409	*	(THUS	PRESUMABLY CONTA	INING THE IC/IR OF AN EARLIER FAULT (SSED), THE JOB IS SUSPENDED AND THE	WHICH	[170CT76] [170CT76]
0				410 411	* *			ABORTING OR CONTINUING IT.	SOF RA " J OB	[170CT76]
		000	272	412 413	* USERF	NULL				[170CT76] [170CT76]
\circ	000272 000273	000000 6360 000001 7360		414 415		E A Q Q L S	0,0 1	MOVE THE FAULT TYPE NUMBER TO Q MULTIPLY BY 2 TO GET THE ADDRESS OF	F THE APPROPRIATE	[170CT76] CELL
_	000274 000275	000001 6350 001006 7550	0.2	416		EAA	1,QU JTEMP,P	GET ADDRESS OF THE SECOND WORD OF STORE THE IC AT WHICH TO RESTART THE	THE CELL	[170CT76] [170CT76]
	000276	000000 6210	02	418		EAX	X,O,QU	PUT RELATIVE FAULT CELL ADDRESS IN		[08AUG77]
0	000277 000300	000044 2350 777737 3750		419 420		L D A A N A	IC,P* -1-M\$MWRD,DL	PICK UP IC/IR AT TIME OF FAULT MASK TO JUST IR BITS THAT SHOULD BE	E FORWARDED	[170CT76] [170CT76]
	000301 000302	001006 0750 000044 2360		42 1 422		A D A L D Q	JTEMP,P IC,P*	GET ENTIRE IC/IR FOR RESTART GET OLD IC/IR		[170CT76] [170CT76]
\circ	000303 000304	000044 7550 000031 2340	36 R.	423 424		S T A S Z N	IC,P* S\$BARS,S	SET NEW IC/IR WAS JOB SQUEEZED?	•	[170CT76] [170CT76]
_	000305	000311 6000		425		TZE	USRF1	IF NOT SKIP AHEAD		[170CT76] [170CT76]
0				426 427	*	UNSQUE	EZE JOB			[170CT76]
0	000306	000001 0760	07	428 429	*	ADQ	1.DL	SET FAKE IR FLAG SAYING FAULT FROM	SQUEEZED MODE	[170CT76] [170CT76]
\circ		000031 4500 000531 7000		430 431		STZ TSXO	S\$BARS.S LBAR	JOB IS NO LONGER SQUEEZED LOAD BARS FOR THIS JOB		[1700176] [08AUG77]
\circ		000		432 433	USRF1	NULL				[08AUG77] [08AUG77]
		001016 0610	16 R.	434		ADX	X, JBASE, P	GET AN "ABSOLUTE" ADDRESS FOR THE	FAULT CELL	[08AUG77]
0	000312 000313	000000 2354 000000 7564	11	435 436	EXTMO6 EXTMO7	MSTQ	0 • X 0 • X	FIRST LOAD THE FAULT CELL SAVE THE NEW IC/IR		[08AUG77]
0	000314 000315	000322 6000 000002 2210		437 438		T Z E L D X	CONT X,B\$DIR,DU	IF IT WASN'T DIRTY, COMMON FAULT EX		[170CT76] [170CT76]
\circ	000316 000317	000035 7410 000000 2210		439 +440		S T X L D X	X,S\$FTYPE,S X,J\$RAN,J	SAVE FLAG IN STATE VECTOR IF IT'S ABOVE MONITOR LEVEL		[170CT76] [01JAN81]
0	000320 000321	000002 1010 000667 6020	03	+441		C M P X T N C	X,2,DU MFT1	CRASH THE SYSTEM		[18/AL/03 [18/AL/03
	000322	000072 2350	17	+443	CONT	LDA	S\$PTIMR,S	GET PREVIOUS INTERRUPT TIMER CHARGE USER FOR TIME UNTIL NOW		[01JAN81]
0	000323 000324	000007 4540 000007 2360	17	+445		STT LDQ	S\$REG+7,S S\$REG+7,S	UPDATE PREVIOUS INTERRUPT TIMER	•	[01JAN81] [01JAN81]
	000325 000326	000072 7560 000007 1750				STQ SBA	S\$PTIMR,S S\$REG+7,S	GET TIME FOR CREDIT ELIGIBILITY		[01JAN81] [18NAL10]
\cup	000327	000000 0550	15 X.	+448		ASA	J\$CTMEL,J	UPDATE ELIGIBILTY COUNTER		[18/ALT03

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0	NCONTROL	08/28/81	22:41:13	DTSS EXECUT	TIVE (INS	ERT SEGMENT)	DTSS TRADE SECRET	PAGE 1	7	0
		N			NON-CON	TROL PROCESSOR E	XECUTIVE	RELEASE	D 01JAN81	<i>~</i>
0	000330	000007 2340		49	SZN	S\$REG+7.S	HAS HIS TIMER RUN OUT?		[1700176]	0
	000331 000332	000336 6050 000035 2210		50 51	T P L L D X	CONT2 X,S\$FTYPE,S	IF NOT, WE MAY CONTINUE HIM IS THE JOB GOING TO THE MASTER EXEC ANYWAY?	•	[170CT76] [170CT76]	
	000333	000336 6010	00 R. 4	5 2	TNZ	CONT 2	IF SO, IGNORE THE FACT THAT HIS TIMER HAS R		[170CT76]	0
	000334 000335	000004 2210 000035 7410		53 54	L D X S T X	X,B\$TROF,DU X,S\$FTYPE,S	TELL THE MASTER EXEC TO RESCHEDULE HIM SAVE FLAG IN STATE VECTOR		[170CT76] [170CT76]	\sim
		000	336 4	55 CONT2	NULL				[170CT76]	0
	000336 000337	000035 2210 000343 6010		56 57	L D X T N Z	X,S\$FTYPE,S SEND	HAVE WE SET A REASON FOR MASTER EXEC PROCES IF WE DO. GO SEND IT OFF	SING?	[170CT76] [170CT76]	$\widehat{}$
	000340	000006 0540	00 X. 4	58	AOS	X \$ SWP C T + 6	COUNT FAULTS PROCESSED BY SLAVE EXEC		[O1FEB77]	0
	000341	000110 7472		59 ∘ 60	INHIB STX	ON S,REG,P	BETTER BE CAREFUL IN HERE ON FAULTS, USE STATE VECTOR TO SAVE REGISTE		[170CT76] [170CT76]	\sim
		001001 7102	16 R. 4	61	TRA	RET,P	RETURN TO SLAVE MODE	N.S	[1700176]	0
				62 * 63 *	SET HP	JOB TO RETURN TO	MASTED EYEC		[170CT76] [170CT76]	
0			4	64 *	361 01	JOB TO KLIOKN TO	PASTER EXEC		[170CT76]	0
	000343	000 000007 2352		65 SEND 66	NULL LDA	S\$REG+7.S	GET TIMER REGISTER AT TIME OF FAULT		[170CT76] [13MAY76]	\sim
	000344	001012 7552	16 R. 4	67	STA	TIMR,P	SAVE AS TIMER ENTERING EXEC		[13MAY76]	0
	000345 000346	000044 2352 000030 7552		68 69	L D A S T A	IC,P* S\$IC,S	GET USER'S IC SAVE IN STATE VECTOR			
			4	70	IFE	IOMFLG,1,2				O
	000347 000350	000010 4436 000020 4476		71 EISO09 72 EISO10		S\$AREG.S S\$PTLEN.S	SAVE USER ADD. REGS (DELETED IF NON-EIS) SAVE USER PTRS & LENS (DELETED IF NON-EIS)			
	000351	200000 2352	07 4	73	LDA	B\$ENTRY,DL	GET EXEC ENTRY BIT			O
	000352	000047 2552		74 75 SEND1	ORSA NULL	S\$BIT,S	SET IN STATE VECTOR BITS		[1700776]	\sim
		000	353 4	76	QLOCK		SIEZE MULTIPROCESSING QUEUE			O.
	000353	000126 7002	_	77 *	TSXO	XSQLOCK	LOWER THE SEMAPHORE			$\overline{}$
			4	78 ★	SET INT	ERRUPT TO CALL C	ONTROL PROCESSOR			Q
	000354	001003 2352		79 * 80	LDA	WKINT	GET INTERRUPT			Ö
			00 X • 4	81	SMIC	XSMEM	SET IT PENDING			O
				82 * 83 *	PLACE J	OB ON QUEUE FOR	MASTER PROCESSING	. *		0
	0.45.0 75.5	000000 2242	4	84 *					5 0 4 1 4 N D 4 T	
	000356 000357	000000 2212 000000 7452		85 86	L D X S T X	X,\$JSQI J,J\$RQ,X	GET INSERT POINTER TO JSQ INSERT NEW JOB ON QUEUE		E01JAN813 E01JAN813	0
	000360	000000 7452	00 X . 4	87	STX	J,\$JSQI	SET NEW INSERT POINTER		[01JAN81]	\mathcal{L}
	000361 000362	000000 2212 000000 7412		88 89	L D X S T X	X,0,0U X,J\$RQ,J	CLEAR XR-X MARK END OF QUEUE		[01JAN81] [01JAN81]	0
	000363	000000 4452	15 X. 4	90	SXL	J,J\$JSFLG,J	NOTE THAT THIS JOB NEEDS SERVICE		[01JAN81]	\bigcirc
0	000364	000000 4502		91 92	STZ QNLOCK	JOB,P	SHOW NO JOB RUNNINT NOW RELEASE MULTIPROCESSING QUEUES			Ö
	000365	000134 7172	00 R.		XED	X\$QNLCK	RAISE THE SEMAPHORE		[1700176]	\bigcirc
0				93 * 94 *	IF SHUT	DOWN FAULT OCCU	RED, SIMULATE MASTER SHUT DOWN FAULT		[170C176]	0
				95 *	TO KILL	PROCESSOR.			[170CT76] [170CT76]	
		001014 2342	16 R. 4	96 * 97	SZN	SDFG.P	IS THE SHUTDOWN FAULT FLAG SET?		E1700T763	\circ
	000367	000372 6002	00 R. 4	98	TZE	*+ 3	I DIDN'T THINK SO		[170CT76]	
0										Ö

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0	NCONTROL	08/28/81	22:41:13	DTSS EXEC	JTIVE (IN	SERT SEGMENT)	DTSS TRADE SECRET	PAGE 18	\bigcirc
		N			NON-CO	NTROL PROCESSOR	EXECUTIVE	RELEASED 01JAN81	
	000370 000371	001014 4502 000124 7162		499 500	S T Z X E C	SDFG.P SDT.P	CLEAR IT AND PROCESS IT PRETEND WE JUST GOT ONE NOW	[170CT76] [170CT76]	0
0				501 * 502	INHIB	OFF	TAKE ANY PENDING FAULTS/AWAKES	[170cT76] [170cT76]	0
0				503 * 504 *	CHECK	HANG FLAG			0
		000	372	505 * 506 SGO	NULL				
0	000372 000373 000374	000000 2340 000457 6010 000000 2340	0 0 0 R	507 508 509	S Z N T N Z S Z N	A\$PFO SWAIT X\$HANG	IS THERE A LIST ELEMENT PANIC? IF SO, DON'T RUN ANY JOBS IS SYSTEM HUNG?	[170CT76] [170CT76]	0
0	000375	000457 6010	00 R.	510 511 *	TNZ	SWAIT	YES - JUST WAIT		0
				512 * 513 *	GET NE	XT JOB TO RUN		e e e e e e e e e e e e e e e e e e e	\circ
0		000	•	514 515	INHIB QLOCK	ON	HAD OUR CHANCE FOR FAULTS/AWAKES BACK TO LOWER THE SEMAPHORE	WORK [O1SEP80]	O
0	000376 000377	000126 7002 000000 2252	2 00 X !	516	TSXO LDX	X\$QLOCK J,\$RQF	LOWER THE SEMAPHORE GET NEXT JOB TO RUN		0
0	000400	000411 6002 000 000001 3352	3401	517 518	T Z E D E C C T L C A	SRUNO X&RQC 1,DL	SKIP IF NONE COUNT JOBS ON RQ GET A MINUS ONE		Ö
	000402	000000 0552 000000 6042	2 00 X. 2 20 X.		A S A T M I	X\$RQC \$ZOPF,*	ADD TO APPROPRIATE COUNTER ERROR IF IT WENT NEGATIV		0
	000404	000000 2212 000000 7412	2 00 X.	519 520	L D X S T X	X.J\$RQ.J X.\$RQF	POINT TO NEXT JOB ON RQ MAKE IT THE FIRST		
	000406 000407 000410	000411 6012 000000 2342 000000 6012	2 00 X.	521 522 523	T N Z S Z N T N Z	*+3 X\$RQC \$ZOPF,*	SKIP IF NOT LAST JOB MAKE SURE NO JOBS ARE ON X\$RQ WHERE ARE THEY?		O
0		000 000000 7452	0411 2 16 R.	524 SRUNO 525	NULL STX	J,J0B,P	SAVE JOB NUMBER		0
0	000412	000 000 134 7172	2 00 R.	526 527	QNLOCK XED INHIB	X S Q N L C K O F F	RAISE THE SEMAPHORE RAISE THE SEMAPHORE END OF SEMAPHORED CODE	[O1SEP80]	
0	000413 000414 000415	000000 1050 000457 6000 000000 2210	0 00 R.	528 529 530	CMPX TZE LDX	J.O.DU SWAIT X.J\$BIT.J	DID WE GET A JOB? NO - JUST WAIT GET THE JOB'S BITS	[1700776]	0
0	000416	100.000 3010	0 03	531 532 533 *	C ANX T N Z	X.8\$TERM.DU SEND1	IS THE JOB TERMINATING? IF SO, BACK TO THE MASTER PROCESSOR	[170CT76] [170CT76] [170CT76]	0
0			!	534 * 535 *	PREPAR	E TO RUN THIS JO	DB ·		0
	000420	000000 2340		536 * 537	SZN	EXTMEM	ARE WE RUNNING EXTENDED MEMORY?	E08AUG77.J	
0	000421 000422	000426 6010 000000 2350	0 00 R	538 539	T N Z L D A	SRUN2 J\$LOCS,J	YES, SKIP GET LOCATION OF STATE VECTOR	[08AUG77] [08AUG77]	
0	000423 000424 000425	000011 7350 000000 6270 000433 7100	0 05	540 541 542	A L S E A X T R A	9 S.O.AL SRUN3	CONVERT LOC TO WORDS IN AL MOVE TO STATE VECTOR REGISTER BRANCH TO COMMON CODE	[08AUG77] [08AUG77] [08AUG77]	С
0	000426	000 000000 2350	0426	543 544 SRUN2 545	NULL LDA	J\$LOCS.J	HERE TO SET UP SV FOR EXTENDED MEMORY LOAD SV LOCATION/2*9 IN AL	E08AUG77] E08AUG77] E08AUG77]	C

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0	NCONTROL	08/28/81	22:41:13	DTSS EXECU	TIVE (IN	SERT SEGMENT)	DTSS TRADE SECRET	PAGE	19	0
		N			N O N- C O	NTROL PROCESSOR	EXECUTIVE	RELEA	SED 01JAN81	
0	000427 000430	777600 6350 001006 7550		546 547	E A A S T A	-2*64,AL JTEMP,P	CORRECT FOR EXTENDED ADDRESSING, MOVE TO UP	PER	[05N0V77] [08AUG77]	0
0	000431 000432	001006 5700 200000 2270 000	03	548 549 550 SRUN3	LMBA LDX NULL	JTEMP,P S,64*1024,DU	LOAD THE MBA TO POINT TO STATE VECTOR SET XR-S TO POINT TO STATE VECTOR(??)		[08AUG77] [08AUG77] [08AUG77]	0
0		000	!	551 * 552 *		ARE CPUO, MAINTA	IN TIME OF DAY		200/100113	0
0				553 * 554 555	INHIB IFE	ON IOMFLG ,1, 2	DON'T BE INTERRUPTED PLAYING WITH TIMERS		[01SEP80]	0
0	000433 000434 000435	000010 4636 000020 4676 001006 4542	17 16 R.	556 EISO11 557 EISO12 558	LPL STT	S\$AREG,S S\$PTLEN,S JTEMP,P	RELOAD USER ADD. REGS (DELETED IF NOPN-EIS) RELOAD USER PTRS&LENS (DELETED IF NON-EIS) SAVE CURRENT TIMER		[13MAY76.]	0
0	000436 000437 000440	001012 2362 001006 1762 000014 7722 000000 0562	16 R. 00	559 560 561	LDQ SBQ QRL	TIMR,P JTEMP,P 12	GET TIMER ON ENTRY TO SLAVE EXEC SUBTRACT CURRENT TIMER VALUE SHIFT TO TICKS		[13MAY76] [13MAY76] [13MAY76] [13MAY76]	Ö
0	000441 000442 000443	000000 0582 000000 1062 000450 6012	03 00 R.	562 563 564 565	ASQ CMPX TNZ GTIM	X\$OVERH P/O/DU SRUN1	COUNT AS TIME SPENT IN EXEC IS THIS THE CONTROL PROCESSOR? NO - SKIP TIME- OF-DAY BOTHER GET TIME NOW		E 13MAT 103	
0	000444 000445 000446	000000 7002 000000 7552 000007 2352	00 X. 00 X	566 567	TSXO STA LDA	X\$GTIM X\$TIME S\$REG+7,S	RETURN TIMER UNITS IN A SAVE TIME WHEN TIMER LOADED GET VALUE FOR TIMER			Ŏ
0	000447	000000 7552 000	00 X. 450	568 569 SRUN1	STA NULL	X\$TIMEL	PUT AS TIME LOADED INTO TIMER		· · ·	0
0	000450 000451	012000 0352 000007 6372	17	570 571 572 *	A D L A L D T	=10B26,DL S\$REG+7,S	ACCOUNT FOR OUR SLOP DOING THIS LOAD TIMER		E01JAN813	
				573 * 574 *	LOAD B	ASE ADDRESS REGI	STER FOR JOB			0
	000452	000531 7002		575 576 *			LOAD THE BARS FOR THIS JOB		[08AUG77]	_
	000457	000070 2752		577 * 578 *		C TO STACK	CET UCEDIC IC			0
0		000030 2352 000044 7552	36 R.	579 580 581 *	L D A S T A	S\$IC,S IC,P*	GET USER'S IC SAVE IN OUR RETURN STACK			0
0	000/55	000110 7472		582 * 583 *		TO REGS TO LOAD	CAVE DOINTED			Ö
0	000433	000110 7472		584 585 * 586 *	S T X RETURN	S,REG,P TO USER	SAVE POINTER			0
	000456	001001 7102		587 * 588	TRA	RET.P	GO TO APPROPRIATE LREG/RET PAIR			·
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0	NCONTROL	08/28/81	22:41:	:13	DTSS EXECU	TIVE (INS	SERT SEGMENT)	DTSS TRADE SECRET P	AGE 20	0
		N				NON- COM	NTROL PROCESSOR	EXECUTIVE	ELEASED 01JAN81	
0				589		EJECT				O
0				590 591	* *	NO JOB	READY TO RUN -	WAIT		\cap
		00	0457	592 593	* SWAIT	NULL				\circ
0	000/57			594	3 11 / 1	INHIB	0 N	MAKE SURE NO JOBS ARRIVE BEFORE WE'RE READY	[01SEP80]	0
	000457 000460	000000 225 370000 235	2 03	595 596		L D X L D A	J,0,0U =0370000,DU	SET JOB NUMBER TO ZERO SET LARGE TIMER FOR US	•	
0	000461 000462	001010 755 000000 106		597 598		S T A C M P X	IDLET,P P.O.DU	SAVE IT ARE WE CPUO?		0
	000463	000502 601		599		TNZ	SWAT1	NO DON'T WORRY ABOUT THE TIME		
				600	*					\bigcirc
)				601 602	* *	CONTROL	PROCESSOR IS	IDLE, MUST UPDATE TIMERS		<u> </u>
0		00	0464	603		GTIM		GET TIME NOW		Ö
	000464	000000 700				TSXO	X \$ G T I M	RETURN TIMER UNITS IN A		\cup
	000465	000000 755		-604		STA	X\$TIME	SAVE AS CURRENT TIME		
	000466 000467	000000 221 000472 601		605 606		L D X T N Z	X,X\$TIMQ *+3	ARE THERE ANY TIMERS WAITING YES CHECK THEM		\circ
	000470	000037 235		607		LDA	=037.DU	NO TIMER - SET LARGE TIMER FOR IDLE LOOP		
	000470	000037 233		608		TRA	*+5	SKIP A LITTLE		$\overline{}$
	000472	000001 135		609		SBLA	X\$TIM,X	GET TIME TILL TICKER RUNNOUT		\circ
	000473	000475 602	2 00 R.	610		TNC	*+2	CHECK FOR RUNNOUT IMMINENT		
	000474	000001 335		611		LCA	1.DL	YES SET IT FOR IMMEDIATE		
	000475	000000 531		612		NEG	4.2	0//757 0//55		
_	000476	000014 735		613		ALS	12	SHIFT OVER	[01JAN81]	_
	000477 000500	001010 755 036000 035				S T A A D L A	IDLET,P =30826,DL	SAVE AS TIME TO LOAD ACCOUNT FOR OUR SLOP DOING THIS	[01JAN81]	\circ
	000501	000000 755				STA	XSTIMEL	SAVE AS THE TIME WE LOADED	[01JAN81]	
	00000	333330	- 00 X.	617						\circ
				618	*	WAIT NO) W			\smile
				619	*					•
\circ	000502	000000 221		620	SWAT1	LDX	X,0,0U	SET FLAG TO ZERO		\circ
	000503	000000 236		621		LDQ	W\$SWPIC	GET COUNT OF SWAPS IN PROGRESS		
_	000504 000505	000000 276 000507 600		622 623		ORQ TZE	X \$ N C Q C * + 2	AND THE NUMBER OF JOBS ON THE NON-CORE QUEUE IDLE IS TRULY IDLE		$\overline{}$
	000506	000001 221		624		LDX	X,1,DU	IDLE IS JUST OUR INEFFICIENCY		\circ
	000507	001006 454		625		STT	JTEMP,P	SAVE CURRENT TIMER	[13MAY76]	
	000510	001012 236	2 16 R.	626		LDQ	TIMR,P	GET TIMER ON ENTRY TO SLAVE EXEC	[13MAY76]	
	000511	001006 176		627		SBQ	JTEMP,P	SUBTRACT CURRENT TIMER VALUE	[13MAY76]	\smile
	000512	000014 772		628		QRL	12	SHIFT TO TICKS	[13MAY76]	
0	000513	000000 056		629		ASQ	X\$OVERH	COUNT AS TIME SPENT IN EXEC	- [13MAY76]	\circ
	000514 000515	001020 237 000001 775		630 631		LDAQ ALR	LIGHT,P*	LOAD IDLE DISPLAY CHANGE THE PATTERN		
	000516	000001 773		632		Q L R	36 -1	• CHANGE THE PATTERN		
0	000517	001020 757		633		STAQ	LIGHT,P*	AND RESTORE FOR NEXT TIME		\circ
	000520	001010 637		634		LDT	IDLET, P	LOAD TIMER FOR WAITING		
0				635		INHIB	OFF			\bigcirc
	000521	000000 616	0 00	636		DIS	0	WAIT FOR SOMETHING		\smile
				637		INHIB	0 N			
0	000533	0.01004 344	2 14 n	638		IFE	IOMFLG,1	TOCHE LOAD AND CLEAD TO ELLICH CACHE ATE DOCCE	ALT \	\circ
		001006 214	C 10 K.	639		SZNC	JTEMP,P	ISSUE LOAD AND CLEAR TO FLUSH CACHE (IF PRESE	IN T J	
										\bigcirc

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0	NCONTROL	08/28/81	22:41:13	DTSS EXECU	TIVE (IN	SERT SEGMENT)		DTSS TRADE SE	CRET	PAGE 2	1	0
0	000537	N				NTROL PROCESSOR		· ·		RELEASE	D 01JAN81	0
0	000523 000524 000525 000526 000527	001010 2362 001012 4542 001012 1762 000014 7722 000000 0562	2 16 R. 6 2 16 R. 6 2 00 6	540 541 542 543 544	LDQ STT SBQ QRL ASQ	12			ROCESSING		[13MAY76] [13MAY76]	0
0		000372 7102			TRA	SGO	GO DO SOMETHI		NIER			0
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_		N				NON-CON	TROL PROCESSOR E	XECUTIVE REL	EASED	01JAN81
\circ				646		EJECT			ſ	[08AUG77]
				647	*	20201				[08AUG77]
\bigcirc				648	*					[08AUG77]
0				649	*	THE LBA	R ROUTINE WILL L	OAD ANY AND ALL BARS NECESSARY TO RUN OR ACCESS		[08AUG77]
				650	*	A SLAVE	JOB. IF WE ARE	NOT RUNNING EXTENDED MEMORY, ALL THAT NEED	£ .	[08AUG77]
				651	*	BE LOAD	ED IS THE BAR.	WITH EXTENDED MEMORY, THE BER IS LOADED AND		[08AUG77]
\circ				652	*	MBB IS	SET TO POINT TO	THE BASE OF THE JOB-64K.		[08AUG77]
				653	*					[08AUG77]
0				654	*	CALLING	SEQUENCE			E08AUG77J
				655	*					[08AUG77]
				656	*	LDX	J, <job number=""></job>			[08AUG77]
\circ				657	*	TSXO	LBAR			[08AUG77] [08AUG77]
		O.C.	10571	658	* 1 D A D	A1111 1				[08AUG77]
~		Ü	00531	659 660	LBAR	NULL INHIB	OFF	NOT SENSITIVE CODE		[01SEP80]
\circ	000531	000031 235	in 17	661		LDA	S\$BARS.S	LOAD SQUEEZED MODE BAR		[08AUG77]
	000537	000037 232		662		TNZ	*+4	SKIP IFIT IS VALID		[08AUG77]
\bigcirc	000532	000000 235		663		LDA	J\$LEN,J	LOAD LENGTH OF JOB		[08AUG77]
\circ	000534	777277 375		664		ANA	-1,DU	ONLY		[08AUG77]
	000535	000011 771		665		ARL	9	MOVE LEN TO BAR FIELD (BITS 9-17)		[08AUG77]
\bigcirc	00000			666						E08AUG773
0	000536	001006 755	50 16 R.	667		STA	JTEMP,P	SAVE PARTIAL BAR	1	[08AUG77]
	000537	000000 239		668		LDA	J\$LOC,J	LOAD ABSOLUTE JOB/2°9 IN AL	([08AUG77]
0	000540	777777 375	50 07	669		ANA	-1,0L	ONLY		[08AUG77]
\bigcirc	000541	000033 775	50 00	670		ALR	36-9	MOVE ADDRESS MOD 256K TO AU		[08AUG77]
	000542	001006 055		671		ASA	JTEMP,P	ADD ADDRESS INTO PARTIAL BAR		[08AUG77]
\circ	000543	000000 603		672		TRC	\$ZOPF,*	JOB STARTING IN ONE 256K REGION, SQUEEZED IN TH		
	000544	001016 755		673		STA	JBASE,P	SAVE ADDRESS OF SLAVE JOB (IF NON-EXTENDED)		[08AUG77]
_	000545	001006 230	10 16 R.	674		LBAR	JTEMP,P	LOAD THE BAR		[08AUG77] [08AUG77]
\circ	000577	000000 234	/ 0 00 V	675		C 7 N	EXTMEM	ARE WE RUNNING EXTENDED MEMORY?		[08AUG77]
	000546	000553 601		676 677		S Z N T N Z	LBAR1	YES, CONTINUE		E08AUG773
\sim	142000	000000	10 00 K.	678		1 14.2	LDAKI	1E37 CONTINUE		[08AUG77]
\circ	000550	001006 722	20 16 R.	679		LXL	Y,JTEMP,P	LOAD ADDRESS/256K		[08AUG77]
	000551	000000 600		680		TZE	0.0	IF ZERO, THEN WE'RE OK		[08AUG77]
0	000552			681		TRA	\$ZOPF,*	JOB IS RUNNING ABOVE 256K ON A NON-EXTENDED SYS	STEM [E08AUG77.3
\circ				682	*				(E08AUG77.J
				683	*	EXTENDE	D MEMORY HANDLED	HERE		[08AUG77]
0				684	*					[08AUG77]
$\overline{}$			00553	685	LBAR1	NULL				[08AUG77]
	000553			686		LDA	JTEMP,P	LOAD ADDRESS/256K IN AL		[08AUG77]
\circ	000554	000022 775				ALR	18	JUSTIFY FORBERSAVE BAR		[C1JAN81]
-	000555	001006 755		688		STA	JTEMP,P	LOAD DACE EVIENCION DECICIED		[08AUG77]
	000556	001006 572	20 16 R.	689		LBER	JTEMP,P	LOAD BASE EXTENSION REGISTER		[08AUG77]
\bigcirc	000557	000.011 771	10.00	690 +601		ARL	9	ADJUST TO GET ABSOLUTE ADDRESS OF JOB		[08AUG77] [01JAN81]
	000560	777600 635		692		EAA	-2*64.AL	CORRECT FOR EXTENDED ADDRESSING		E05NOV77]
$\widehat{}$	000561	001006 755		693		STA	JTEMP,P	COUNTELL LOW EVICABLE UPONEDSING		[08AUG77]
\circ	000562	001006 771		694		LMBB	JTEMP,P	LOAD MBB TO POINT TO JOB'S CORE		[08AUG77]
	00000		10 10 K	695		~ 110U	J. Citt Ft			[08AUG77]
·	000563	200000 235	50 03	696		LDA	64*1024.DU	LOAD FAKE BASE FOR JOBS CORE		[08AUG77]
\circ	000564	001.016 755		697		STA	JBASE,P	SAVE FOR FUTURE USE		[08AUG77]

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0	NCONTROL	08/28/81	22:41:13		ISERT SEGMENT)		DTSS TRADE SECRET		AGE 23	0
0	000565	N 000000 7100	10 69	NON-CC TRA	ONTROL PROCESSOR	EXECUTIVE AND RETURN		R E	LEASED 01JAN81	0
0									•	0
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	0	NCONTROL	08/28/81	22:41:13	C	TSS EXECUT	IVE (INS	ERT SEGMENT)	DTSS TRADE SECRET	PAGE 24		0
	0		N				N O N— C O N	TROL PROCESSOR	EXECUTIVE	RELEASED	O1JAN81	0
					699 700	*	EJECT					0
	0				701 702	* *	SHUTDOW	N FAULT - STOP				\circ
	0		000	566	703 704	SDF	NULL NULL	ON	SENSITIVE CODE	1	[01SEP80.]	0
		000566 000567	000120 2342 000756 6012	00 R.	705 706		S Z N T N Z	SDIC,P SHALT	HAVE WE SHUT DOWN ALREADY? YES — JUST HALT			
	0	000570 000571 000572	000110 2212 000114 2222 00000001120	16 R.	707 708		L D X	X,REG,P Y,SDREG,P	POINT TO SHUTDOWN REGISTERS POINT TO SAFE-STORE AREA			0
	0	000573 000574	011600 5602 000000 2372	02	709 710		R P D L D A Q	4,2 0,X	MOVE REGISTERS FROM TEMPORARY STORAGE			0
	\bigcirc	000575	000000 7572 000116 5502	12	711 712		STAQ SBAR	O,Y SDBAR,P	TO A SAFE PLACE SAVE BAR			0
	0	000577 000600	000044 2352 000120 7552	16 R.	713 714		L D A S T A	IC,P SDIC,P	GET IC POINTER SAVE IT AND SET FLAG			O
	0	000601 000602	000000 1062 000756 6012	00 R.	715 716		C M P X T N Z	P,O,DU Shalt	IS THIS THE CONTROL PROCESSOR? NO - JUST STOP			\circ
	0	000603 000604	000000 2332 000122 7572	00 R.	717 718		R M C M S T A Q	X \$ M E M S D M C M	YES - SAVE MASK REGISTER			0
		000605 000606 000607	001004 2372 000000 5532 000000 2332	00 X.	719 720 721		LDAQ SMCM RMCM	NOINT X\$MEM X\$MEM	GET MASK FOR NO INTERRUPTS MASK THEM ALL OFF			
	0	000610 000611	000000 2332 000610 0112 000756 7102	51 R.	722 723		NOP TRA	*,I SHALT	READ THEM AGAIN TO MAKE SURE THEY GET SET WASTE SOME MORE TIME JUST IN CASE NOW HALT			0
	0	333311	0000,70 1102		724 725	*		FAULT - BACK T				\circ
İ	0		000		726 727	* SUF	NULL					
	\cup		000120 2342 000667 6002		728 729		S Z N T Z E	SDIC.P MFT1	HAS SHUTDOWN FAULT PRECEEDED? NO DIE		[09DEC79]	\bigcirc
	0		000120 2352 000044 7552	16 R.	730 731		L D A S T A	SDIC,P IC,P	GET SAVED IC POINTER SAVE FOR RETURN			Ö
	0	000616 000617 000620	000114 2212 000110 2222 00000001120	16 R.	732 733		L D X	X,SDREG,P Y,REG,P	POINT TO SAVED REGS POINT TO REGISTER LOAD AREA			0
	\bigcirc	000621 000621	011600 5602 000000 2372	02	734 735		RPD LDAQ	4,2 0,X	MOVE REGISTERS FROM SAFE STORAGE AREA			
		000623	000000 7572 000116 2302	12	736 737		STAQ LBAR	O,Y SDBAR,P	TO LOAD AREA RESTORE BAR			0
	0	000625 000626	000000 6372 777777 6372	03	738 739		L D T L D T	0.DU -1.Y	SET TIMER RUNOUT PENDING RESET TIMER TO VALUE AT SHUTDOWN			\circ
	0	000627 000630	000120 4502 000000 1062	03	740 741		STZ	SDIC,P P,O,DU	CLEAR SHUTDOWN FLAG IS THIS THE CONTROL PROCESSOR?			0
		000631 000632 000633	001001 6012 000122 2372	00 R.	742 743		TNZ LDAQ SMCM	RET P SDMCM V&MEM	NO - RETURN YES - RESTORE CONTROLLER MASK			_
	0	000634	000000 5532 001001 7102	16 R.	744 745 746	*	S M C M T R A	X\$MEM RET,P	NOW RETURN		10 A	
	0				747 748	*		LT CHECK AND ON-EXTENDED MAC	CORRECT INSTRUCTION IF AN EXTENDED INSTRUCT	ION	E08AUG77] E08AUG77]	0
	0											0

0											0
0	NCONTROL	08/28/81	22:41:	13	DTSS EXECUT	IVE (INS	ERT SEGMENT)	DTSS TRADE SECRET F	AGE 25	5	Ö
		N				NON-CON	TROL PROCESSOR E	XECUTIVE	RELEASED	01JAN81	
				749	*					[08AUG77]	0
	000635	00 000000 234	00635 42 00 x	750 751	IPR	NULL SZN	EXTMEM	ARE WE RUNNING ON EXTENDED MEMORY?		[08AUG77] [08AUG77]	
	000636	000667 601		752		TNZ	MFT1	YES, ALL IPR FAULTS ARE FATAL		[08AUG77]	0
	000637	000044 221	12 36 R	753 754		LDX	X,IC,P*	LOAD THE IC+1 OF THE FAULTING INSTRUCTION		[08AUG77] [08AUG77]	
0	000640	777777 235	52 11 🚙	755		LDA	-1,X	LOAD THE FAULTING INSTRUCTION		[08AUG77]	0
	000641	001:034 236		756		LDQ	=0777777003377	LOAD A MASK FOR OPCODE FIELD		[08AUG77]	
	000642 000643	234400 211 000646 600		757 758		C M K T Z E	=0234400,DL *+3	MLDA, MLDQ, MLDAQ? YES, FIX		[08AUG77] [08AUG77]	Ö
	000644	754400 211		759		CMK	=0754400,DL	MSTA, MSTQ, MSTAQ?		E08AUG773	
0	000645	000667 601		760		TNZ	MFT1	NONE OF THE ABOVE, CRASH		[O8AUG77]	0
	000646 000647	000400 675 777777 755		761 762		E R A S T A	=0400,DL -1,X	TURN THE EXTENDED INSTRUCTION BACK TO A NORMARESTORE	IL ONE	[08AUG77]	
0	000650	000.001 161		763		SBX	X, 1, DU	BACK THE IC UP ONE FOR THE RETRY		E08AUG773	0
	000651	000044 741		764		STX	X,IC,P*	SAVE FOR RETURN		[08AUG77])
	000652	001:001 710)2 16 R.	765 766		TRA	RET, P	AND RETURN TO RETRY		E08AUG773 E08AUG773	,
				767	*	MASTER	FAULT - CHECK FO	R SHUTDOWN, STARTUP, OR CONNECT		E08AUG773	0
				768	*					[O8AUG77]	
	000653	00 000000 011	00653	769 770	MFT TSOPO6	NULL NOP	0 011	CDACE COD LCDD THET ON 441V7		[08AUG77] [30DEC76]	0
	000654	000000 011		771	130706	CMPXO	0, DU 8, DU	SPACE FOR LCPR INST. ON 66/X7 IS THIS A CONNECT FAULT?		FOODECLOT	
0	000.655	000000 600	. x 00 SC	772	CONX	TZE	X \$ M C H E K	(THIS INST DELETED BY DISK STARTUP)			\circ
	000656	001001 600		773		TZE	RET,P	YES - JUST RETURN			•
	000657 000660	000000 100 000566 600		774 775		CMPXO TZE	O, DU SDF	IS IT A SHUTDOWN FAULT? YES — SHUT UP SHOP			\circ
	000661	000014 100		776		CMPXO	12.DU	IS IT A STARTUP FAULT?			\circ
I	000662	000.612 600		777		TZE	SUF	YES - BACK TO WORK			
	000664	000004 100 000760 600		778 779		CMPXO TZE	4.DU TIMF	CHECK FOR TIMER RUNNOUT FAULT YES AWAKEN			\circ
	000665	000012 100		780		CMPXO	10,00	ZOP(IPR) FAULT?		E08AUG773	
	000666	000635 600	32 00 R.	781		TZE	IPR	YES, GO CHECK IT OUT		E08AUG773	\Box
				782 783	*	SYSTEM	ERROR - DIE				
0				784	*	JIJIEM	EVIVOV . DIE				0
			00667	785	MFT1	NULL					
	000667 000670	000000 237 000020 757		786 787		L D A Q S T A Q	Z\$INTC X\$FTVO+16	GET DIE INTERRUPT PAIR SAVE IN CONNECT FAULT CELL		[01SEP80]	
0	000670	000000 746		788		STX	P.ZSPROC	SAVE IN CONNECT FACET CELL SAVE GUILTY PROCESSOR NUMBER		LUISEROUJ	0
	000672	000000 550	00 X.	789		SBAR	Z\$BAR	SAVE BAR OF CRASHING CPU			
0	000673	000000 440)2 00 X.	790		SXLO	Z\$FTYPE	SAVE TYPE OF FAULT IF NON-CONTROL PROCESSOR			0
	000674	000000 234	12 00 X-	791 792		SZN	EXTMEM	ARE WE RUNNING EXTENDED MEMORY?		[08AUG77]	
0	000675	000701 600	02 00 R.	793		TZE	* + 4	NO. SKIP		[08AUG77]	\circ
	000676	000000 157		794		SBER	Z\$BER	SAVE BASE EXTENSION REGISTER		[08AUG77]	•
	000677 000700	000000 555 000000 556		795 796		SMBA SMBB	Z \$ MB A Z \$ MB B	SAVE MBA AND MBB		[08AUG77]	
0	300.100		, a oo a	797		31100	241100			[08AUG77]	С
	000701	000000 452		798		SCPR	Z\$FTREG,01	STORE FAULT REGISTER			
0	000702	000000 452	12 U6 X.	799 800	*	SCPR	Z\$MDREG.06	AND THE MODE REGISTER	**	[01SEP80]	C
				300	~					201021003	
0											\subset

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0	NCONTROL	08/28/81	22:41:13	3 D	TSS EXECU	TIVE (INS	SERT SEGMENT)	DTSS TRADE SECRET	PAGE 26	· •	0
\sim		N			·	NON-CO1	NTROL PROCESSOR E	EXECUTIVE	RELEASED	01JAN81	
0				801	*			DEL PROCESSORS HAVE 64 PAIRS OF		E01SEP803	\circ
0				802 803	*			RMATION. WE ONLY HAVE ROOM TO DUMP THE MOST RECENT 16, 48 MUST BE SKIPPED.		[01SEP80]	0
\cup				804	*	WHEN T	THIS CODE IS EXE	CUTED ON NON-DPS-E PROCESSORS, IT		[01SEP80]	\circ
\bigcirc				805 806	* *		CYCLE THROUGH THE THE POINTER WHER	IE HISTORY REGISTERS THREE TIMES AND RE IT STARTED.		[01SEP80] [01SEP80]	O
0				807	*					[01SEP80]	O
	000703 000704	000060 220. 001026 452		808 809		LDXO SCPR	48,DU JUNK,20	NUMBER OF ENTRIES TO SKIP THROW AWAY SOME INFORMATION		[01SEP80]	
\circ	000704	000001 160		810		SBXO	1, DU	COUNT		[01SEP80]	\circ
	000706			811		TNZ	*-2	UNTIL DONE		[01SEP80]	
0				812	*					[01SEP80]	0
_	000707	000000 620		813		EAXO	Z\$CUHIS	POINT TO CU HISTORY REG SAVE AREA			· ·
~	000710 000711	000711 740		814 815		STXO SCPR	*+1 •••20	SAVE THE POINTER SAVE A CU REG PAIR			~
\circ	000711	000000 432		816		ADXO	2,DU	SAVE A CO REG PAIR			Ú
	000713	000040 100		817		CMPXO	Z\$CUHIS+32,DU	CHECK FOR DONE			
0	000714	000710 602		818		TNC	* - 4	LOOP IF NOT			С
_	000745	**************************************		819		- 0	5	1077 700070000 40000			~
$\overline{}$	000 71 5 000 71 6			820 821		R S W A N A	2 M\$PTYPE⊅DU	*GET PROCESSOR MODEL ONLY		[01SEP80]	
\circ	000713	020000 115		822		CMPA	M\$ELS,DU	IS IT AN ELS MODEL?		[01SEP80]	
	000720	000744 600		823		TZE	MFT2	IF SO, NO OU OR DU HISTORY REGISTERS		[01SEP80]	
0				824	*					[01SEP80]	\subset
_	000721	000060 220		825		LDXO	48,DU	NUMBER OF ENTRIES TO SKIP ON DPS-E MACHINES		[01SEP80]	<u> </u>
_	000722 000723			826		SCPR	JUNK, 40	THROW AWAY SOME INFORMATION		[01SEP80]	
\circ	000724			827 828		S B X O T N Z	1 • DU *-2	COUNT UNTIL DONE		[01SEP80]	C
	000 134 1	Odbajee Ob.		829	*	1142	*	ONTIE DONE		[01SEP80]	
\bigcirc		000000 620)2 00 X.	830		EAXO	Z\$OUHIS	POINT TO OU HISTORY REGISTER SAVE AREA			\Box
		000727 740		831		STXO	*+1	**			
_		000000 452 000002 060		832		SCPR	40 2 DU	* * SAVE OU HISTORY REGISTERS			~
\circ	000731			833 834		A D X O C M P X O	2,DU Z\$OUHIS+32,DU	* SAVE OU HISTORY REGISTERS			\mathcal{C}
	3	000726 602		835		TNC	*-4	· **			
0				836							С
_	000733			837		RSW	2	READ INFO SWITCHES		[30DEC76]	_
_	000734 000735	030000 375		838 839		ANA	M\$PTYPE,DU	GET PROCESSOR TYPE		[01SEP80]	_
0	000736	000744 601 000000 620		839 840		T N Z E A X O	M F T 2 Z \$ D U H I S	NEWER MODELS DO NOT HAVE DU HISTORY REGISTE POINT TO DU (EIS) HISTORY REGISTER SAVE ARE		[01SEP80]	C
	000737	000740 740		841		STXO	*+1	**	- n		
Ó	000740	000000 452		842		SCPR	10	*			\subset
	000741	000002 060		843		ADXO	2 , DU	* SAVE DU HISTORY REGISTERS)
	0007,42			844		CMPXO	Z\$DUHIS+32,DU	*			_
\circ	0007.45	000737 602		845 846	MFT2	T N C N U L L	* - 4	**		[30DEC76]	C
		U U		847	MF12 ★	NOLL				[05N0V77]	
0		•		848	*	SAVE I	C/IR AND REGISTER	RS FOR DUMP		[05N0V77]	\subset
$\overline{}$				849	*					[05NOV77]	
		000044 235		850		LDA		LOAD IC/IR FROM CRASH		[05N0V77]	
\circ		000000 755 000200 315		851 852		STA	ZSIC	SAVE FOR DUMP WAS FAULT FROM MASTER MODE?		[05N0V77] [05N0V77]	C
I	000140	000200 515	2 01	0)6		CANA	M\$MMODE,DL	WAS FAULT FRUM MASIER MODE:		LU J NU VIII.a.	
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0	NCONTROL	08/28/81 22:	41:13	DTSS EXECU	TIVE (IN	SERT SEGMENT)	DTSS TRADE SECRET	PAGE 27	0
		N			N O N — C O	NTROL PROCESSOR	EXECUTIVE	RELEASED 01JAN81	_
0	000747	000752 6012 00			TNZ	*+3	YES, SKIP	[05N0V77]	0
	000750 000751	000000 0732 17 000753 7102 00	R. 855		L R E G T R A	\$\$REG.\$ *+2	LOAD REGISTERS FROM SLAVE MODE AND SKIP	[05N0V77] [05N0V77]	0
	000752 000753	000110 0732 36 000000 7532 00			LREG SREG	REG≠P* Z\$REG	LOAD REGISTERS FROM MASTER MODE SAVE FOR DUMP	[05N0V77] [05N0V77]	O
			858	3					\circ
	000754		860	*	LCPR	UNLCK,04	UNLOCK THE REGISTERS		
0	0007,55	000000 0152 00 000756	X. 867 862		C I O C N U L L	\$PROC+0	SEND A CONNECT TO THE CONTROL CPU WAIT FOREVER	[01sep80] [01sep80]	Ö
	000756 000757	000000 6162 00 000756 7102 00			DIS TRA	0 ★-1	WAIT UNTIL A FAULT WAKES US	[01SEP80] [01SEP80]	Ċ
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	NCONTROL 08/28/81 22:41:13	DISS EXECU	TIVE (INSERT SEGME	NT) DTSS TRADE SECRET	PAGE 28	
0	N	, , , , , , , , , , , , , , , , , , ,	NON-CONTROL PROC		RELEASED 01JAN81	0
0		65 66 *	EJECT		[01SEP80] [01SEP80]	0
0	8 6 8 6	67 * 68 *	MASTER MODE TIME		[01SEP80] [01SEP80]	0
0	000761 001001 6012 16 R. 8 000762 000000 2332 00 X. 8	69 TIMF 70 71 72	CMPX P.O.DU TNZ RET.P RMCM X\$MEM ANAQ X\$ENABL	ARE WE THE CONTROL PROCESSOR NO DON'T WORRY GET CURRENT MEMORY MASK MASK TO SETTABLE BITS		0
0	000764 000772 6002 00 R. 8' 000765 000000 6772 00 X. 8'	73 74 75	TZE TIMF1 ERAQ X\$ENABL TZE TIMF1	ALL THE SAME (OFF) ALL ON? YES GOOD		O
0	8	76 * 77 * 78 *	IF THE SETTABLE	BITS ARE NOT ALL THE SAME, WE LOST SOME		
0	000767 000000 2332 00 X. 83 000770 001032 7572 00 R. 83	79 80	RMCM X\$MEM STAQ X\$MCMSK	GET THE FAULTY MASK AGAIN SAVE FOR LOG		0
0	88	81 82 * 83 TIMF1	TRA \$ZOPF,**	DIE AND LET SOMEONE INVESTIGATE FAULTY MASK WAKE UP CONTROL EXEC SO ITS TICKER WILL RUN	[01SEP80]	O
0	000773 000000 4512 00 X. 88	84 85	SMIC X\$MEM TRA RET,P	LIKE SO RETURN TO OUR DIS	[01SEP80] [01SEP80]	0
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0	NCONTROL	08/28/81 22:41:13	DTSS EXECU	TIVE (INSERT SEGMENT)	DTSS TRADE SECRET PAGE	29	0
0			B86	NON-CONTROL PROCESSO	R EXECUTIVE RELEAS	SED 01JAN81	0
0		 	887 * 888 * 889 *	RETURN ROUTINES			0
0		8	890 891 RETN 892 RET#1	INHIB ON MACRO LREG REG+#1,I	INHIBIT RETURN SEQUENCE RESTORE REGISTERS	[01SEP80]	0
		8	893 894 895	RET IC#1,IDC ENDM RETN APROC RETN RETN O	RETURN	[01MAY79]	0
	000775 000776	000110 0732 51 R. 000044 6302 57 R. 000777	RETO	LREG REG+O,I RET ICO,IDC RETN 1	RESTORE REGISTERS RETURN		0
0	000777 001000	000111 0732 51 R. 000045 6302 57 R.	RET1 896 RETNN	LREG REG+1,I RET IC1,IDC MACRO	RESTORE REGISTERS RETURN		0
0		\ {	897 898 899 RET	TRA RET#1 ENDM RETNN APROC RETNN	POINTERS TO RETURN ROUTINES		0
0	001001	001001 000775 7102 00 R. 001002		RETNN O TRA RETO RETNN 1			0
0	001.002		900 *	TRA RET1	INTERRUPT TO AVAMEN MACTER PROCESSOR	[01SEP80]	0
0	001003	001004	901 WKINT 902 * 903	OCT 02000000001 EVEN	INTERRUPT TO AWAKEN MASTER PROCESSOR	[015EP80]	0
0	001004 001.005	00000000017	904 NOINT 905 *	OCT 17,17	MASK FOR NO INTERRUPTS		0
0			906 * 907 * 908 *	TEMPORARY STORAGE			0
0		001010 001012	909 JTEMP 910 IDLET 911 TIMR	BSS \$NPROS BSS \$NPROS BSS \$NPROS	SPACE FOR IDLE TIMER TIMER VALUE AT LAST ENRY TO SLAVE EXEC	[13MAY76]	0
0		001016	912 SDFG 913 JBASE 914	BSS \$NPROS BSS \$NPROS	SLAVE MODE SHUT DOWN FLAG BASE OF UNSQUEEZED JOB IF NORMAL, 64K IF EXTENDED	[170CT76] [08AUG77]	0
0		t c	915 LGT 916 917 918	MACRO ARG 2*#1+LGTTB ENDM LGT			0
0	001020		919 LIGHT	APROC LGT LGT O ARG 2*0+LGTTB			0
0	001021	001021 001024 0002 00 R.	920	LGT 1 ARG 2*1+LGTTB EVEN			0
0		001022	921 LGTTB 922	NULL DUP 2, SNPROS		: :	Ö
0							O

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0									0
0	NCONTROL	08/28/81 22:41:1	3 DTSS EXECU	TIVE (INSER	T SEGMENT)	DTSS TRADE SECRET	PAGE 30		\circ
0	004022	N	0.27		OL PROCESSOR	EXECUTIVE	RELEASED		0
0	001022 001023 001024 001025	777776000000 000000377777 777776000000 000000377777	923 924	OCT 0	77776000000 00000377777 77776000000 00000377777		·	13MAY76]	0
0	001023	00000377777	925 * 926 * 927 *	001 0	00000377777				Ö
0	001030	001026 001026 00000000071	928 929 JUNK 930 UNLCK 931	EVEN BSS 2 OCT 7		SPACE TO SAVE WORTHLESS FAULT REGISTER UNLOCK HIST REGS; ALLOW RSW 2; LOCK HRS (ULTS 05NOV77]	0
0	001031	000000011207	932	HEAD X		MISC GARBAGE	[05NOV77]	0
0	001032 001033	001032 000000000000 00000000000	933 MCMSK 934	EVEN OCT O	•0	PATHOLOGICAL MEMORY MASK		05N0V77] 05N0V77]	0
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	O NC	CONTROL 08/28/81	22:41:13	DTSS EXECUT	TIVE (IN	SERT SEGMENT)	DTSS TRADE SECRET	PAGE 31	
	<i>~</i>	X			PSEUDO	SLAVE JOB		RELEASED 01JAN81	
	0		935		TTLS	PSEUDOSLAVE JO	3		0
(0		936 937 938	,	H E A D I F E	X 0,1,82	DELETE CODE, BUT SAVE FOR HISTORIC INT	ERREST	0
	$\overline{}$		939 940	*	т	HIS JOB RUNS AS	JOB O WHEN NO OTHER JOBS ARE ELIGIBLE TO	RUN.	0
'	0		941	*	·				
(0		942 943 944	\$ *	STATE	VECTOR FOR JOB O			Ö
	_		945		EIGHT	0 0 0	REGS XO-X5		
(0		94 <i>6</i> 947		OCT GTB	0,0,0	X6, X7		0
1			948		OCT	0,0,0,0	A,Q,E,T		
	0 ,		949 950		V F D Z E R O	18/WT1,018/40	BARS		Ö
			951	1	OCT	77777777777	LIMIT		
(\circ		952 953		ZERO	37777777777	TIMER RTIME		
			954 954		O C T Z E R O	21111111111	BUSY		
(0		955	5	ZERO		RUN		\mathcal{C}
`	_		956		OCT	377777777777	QUANT	,	-
,	$\overline{}$		957 958		O C T	377777777777 377777777777	J A C E S C A T W		С
	\circ		959)	OCT	37777777777	SCRW		
			960		ZERO		JTIME		~ '
(\circ		961 962		Z E R O O C T	777777000000	INTP/BIT JMEM *** UPDATED IN STARTUP		C
			963		ZERO	64.PSSV	SVMEM *** UPDATED IN STARTUP		
	\circ		964	•	ZERO		STIME		C
,	_		965		ZERO	,	IOCHG		
,			966 967		BSS ZERO	6 1,S\$FR+2	NOT CURRENTLY USED FCB		\bigcirc
'	0		968		ZERO	S\$FR+1.1	FRO		
			969		ZERO	0.0	FCBO		
(\circ		970 971		E Q U I N E	* PSSVE-PSSV.S\$	FD+2.1		С
			972		INCORR		OR FOR JOB ZERO		
			973	*		_			C
	_		974 975		JOB TA	BLE FOR JOB O			
	0		976		ORG	J\$LEN			С
	\cup		977	,	OCT	777777000000			
			978		ORG	J\$LENS			~
	\circ		979 980		Z E R O O R G	64,PSSV J\$BIT			C
			981		ZERO	B\$CORE			
	\circ		982	2	ORG	J\$TYPE			C
			983 984		Z E R O O R G	O,B\$MON+B\$CRR J\$MEND	ES		
1			985		ZERO	J\$MLINK.0			
	\mathcal{I}		986		ORG	PSSVE			
	\supset								

0											0
0	NCONTROL	08/28/81	22:41:13	DTSS EXECUI	TIVE (IN:	SERT SEGMENT)	DTSS TRADE SECRET	PAGE	32		0
. 0		X	987	*	PSEUDO:	SLAVE JOB		RELEA	SED 01J	AN81	0
0			988 989 990	* *	PSEUDO	SLAVE JOB					O
0			991 992 993	* *		WANDER AIMLESS	SLYTEDIOUSLY TEARING TORUSES TO BITS				0
0			994 995	WT1 PSFLT	NULL GTB	PXED	IDLE LOOP CHECKS PARITY AND KEEPS STATISTI THIS ONE IS USED TO CAUSE A FAULT	cs			C
			996 997 998		G T B L D A O R A	N C Q C W \$ S W P I C	SLOW DOWN SO WE DON'T INTERFERE ARE THERE ANY JOBS WAITING TO BE SWAPPED I OR SWAPPING IN JUST NOW?	N			C
0			999 1000 1001		TNZ AOS TRA	*+3 IDLEA *+3	YES INCREMENT IDLE COUNTER SKIP				
0			1002 1003 1004		AOS TRA LDXO	I DL EB * + 1 WT 4	INCREMENT SWAP-WAIT COUNTER KEEP NUMBER OF INSTRUCTIONS IN EACH BRANCH GET CURRENT WORD TO RESTORE		C	3	
			1005 1006 1007	WT2	TZE LDA SBX	WT3 -1.0 0.1.DU	HAVE TO RESET COUNTER FETCH A WORD, MEMORY WILL RESTORE KNOCK OFF 1				
0			1008 1009		S T X T R A	0 • W T 4 W T 1	KEEP CURRENT COUNT IN CORE ROUND AGAIN				С
0			1010 1011 1012		L D X A N X O S T X	0,\$M\$IZE =0776000,DU 0,WT4	FETCH NUMBER OF WORDS WE HAVE GET INTO ALLOWABLE BAR RANGE SAVE COUNTER IN CORE				С
0			1013 1014 1015	WT4	TRA ZERO EVEN	W T 2 O	FETCH THIS LOCATION INITIAL VALUE FOR COUNTERUPDATED				С
0			1016 1017 1018		SXL7 DRL	PSFLT	RESTORE OUR GTB AND CAUSE A FAULT				C
0			1019		R E M H E A D	X					C
0											C
0											C
0								•			C
0											C
0											C
0											C
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0		0
		O
0	X PSEUDOSLAVE JOB RELEASED O1JAN81	0
0	1021 * 1022 *	0
	1024 *	0
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0	NCONTROL	08/28/	'81 22	:41:13	DTSS E	XECUTIVE	(INSERT	SEGMENT)		DTS	S TRADE S	SECRET		PAGE 34		\circ
						CR	OSS REFE	RENCE TAE	BLE						RELEASED 01	JAN81	
0	0	A PFO	90	507									,				0
	4000	B AP	643	646													
0	10000 1000	B EX B RD	642 645	646 646													O
	2000	B WT	644	646		* .											
	400000 200000	B CAP B CFC	697 658	701 676													\bigcirc
	100000	B CFD	659	676													
0	40000 200000	B CFR B CWT	660 698	676 701	702												Ö
	2	B DFE	777	778	, 52												
0	2 10 0 00	B DIR B MDA	628 567	438 583									•				0
1	1	B MME	627	376													
0	40000	B OWN B PAR	640 629	646 392													\circ
	1	B SFE	776	778													
0	10000 20000	B CFCL B CFGA	663 662	676 676								•					0
	400	B NTPD	686	688													
0	400000 200	B NTPS B RSVD	684 687	688 688													Ö
	200000	B RSVS	685	688													
0	400000 100000	B SWAP B TERM	562 564	583 531													0
	4	B TROF	630	365	385	453											
0	400 200000	BCFRVM BENTRY	667 590	676 473													0
	4000	BSWREQ	568	583													
0	10	C CATR C CLEN	1630 477	1649 495													0
	6	C DALT	489	495													
0	1 1 1 1	C FLAG C PERM	1633 1632	1650 1649													0
	22	CTACC	1646	1650													
0	6 1 0	C TYPE C USEP	490 1631	496 1650													0
	22	CCBITS	1644	1645	1649												4
0	340	CENTRY CHTLEN	479 94	496 145	147												0
	5	CINDEX	478	495	, , , , , ,												
0	22 21	C M M E N O C N A M N D	1645 1642	1649 1643	1649												0
	21	CNAMPT	1643	1650	1047												
0	4	COMIMW COMIOM	2239 2240	2247 2248													0
	17	CPASLE	1640	1650													
	17 400	CPASPT DEVMAX	1639 99	1649 116	118	132	134	136	138	140	142	256	258				. 0
	312	EXTM06	435	69	110	126	1 3 4	1.50	150	140	176.	200	<i></i> .				
0	31 3 0	EXTMO7 EXTMEM	436 91	70 537	676	751	792										
	U	EN FREET	71	, , ,	010	1) 1	1 / 2										
0			•												r	•	0
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0	NCONTROL	08/28/81	22:41:13	3 DTSS [EXECUTIVE	(INSERT S	EGMENT)	DTSS TRADE SECRE	. P <i>I</i>	GE 35	
					C R	OSS REFEREI	NCE TABLE		R E	LEASED 01JAN81	
	1 F	J	541 544	<i>/</i> .							\circ
	1 F		542 545								
0	0 F		381 428								\circ
	0 F 6 F		534 544 424 429								
0	1 F	RET	386 429	9							\circ
			423 424 536 545								
0	0 F	TYPE	382 429	9							0
			383 428 93 94		254						
		P C H N C M D	380 887		254						
0	10 I		892 893								O
	1 I		878 900	0							<u>~</u> ;
0	0 · I		93 882 883	3 884	885	900					O
	0 1	FLOG	92			, 0 0					
0			897 898		000						\circ
			890 89° 883 90°		900						
0			879 880								0
			887 889		900						
			889 901 894 895							•	0
0			891 901								O
		OMFLG	67 313		555	638					·
			893 894 886 837								Ö
1			885 886								
Ö			895 896								\circ
			896 897 884 901								
Ö	0 1	RQ	99 486	6 489	519						
	0 1		94 530								
	0 1 0 1	L E N L O C	96 661 97 668								0
0	0 1	RAN	100 400	0 440							O
		LOCS	98 539								
	0 1	CTMEL JSFLG	101 448 95 490								\circ
	0 J	SQI	102 485	5 487							
0	M 05		282 288								\circ
			271 827 275 288								
0	40 M	MWRD	233 420	0							
		BXLEN	95 126								_
			278279288								C
0	7740 M	IFTVMK	272 287	7							
			232 183229 183		852					•	
0			284 288								C
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(0	NCONTROL	08/28/81	22:41:13	DTSS	EXECUTIVE	(INSERT	SEGMENT)		DTS	S TRADE	SECRET		PAGE 36	0.
	0					CR	OSS REFEI	RENCE TAE	BLE						RELEASED O1JAN8	0
	0	3 30000 2000 10	MPROCN MPTYPE MSER66 MSLMEM	285 288 269 821 276 288 283 288	838											0
,	0	4000 0 5	MTSOPT N J	274 288 175 333 530	400 539	440 545	448 595	486 663	487 668	489	490	516	519	525	528	Ō
	0	6	N P	176 291 460 559 630	333 461 560 633	334 467 563 634	335 468 580 639	336 491 584 640	367 497 588 641	417 499 597 642	419 500 598 667	421 525 614 671	422 547 625 673	423 548 626 674	434 558 627 679	0
	0	. 7	N S	686 715 764 177 334	688 728 765 366	689 730 773 374	693 731 788 377	694 732 850 386	697 733 856 393	705 737 869 424	707 740 870 430	708 741 885 439	712 742 443	713 745	714 754 445	0
	0	1	N X	446 541 171 365 435	447 549 366 436	449 556 376 438	451 557 377 439	454 567 385 440	456 571 386 441	460 579 392 451	466 584 393 453	469 661 400 454	471 854 401 456	472 418 485	474 434 486	0 0
, (0	2 4 4	N Y N IC	488 710 172 679 205 73	489 732 708 419	519 735 711 422	520 754 733 423	530 755 736 468	531 762 739 580	605 763 713	609 764 731	620	764	850	707	С
	0	267 260 140	N N CMD N CGN N FVO	179 815 399 349 383 352 290 72	832	842	463	400	300	113	, 3,	,,,,	704	0,70		С
i	0	1 60 44 45	N FV1 N ICO N IC1	290 72 206 74 208 74	29 1 895											
(0	635 0 653 253	N IPR N JOB N MFT N MME	750 781 154 75 769 307 373 346	333	491	525									С
(0	264 110 1001 566	N PAR N REG N RET N SDF	391 353 226 77 899 78 704 775	29 1 46 1	334 588	336 742	460 745	584 765	707 773	733 870	856 885	895			C
	0	124 372 612 322	N SDT N SGO N SUF N CONT	242 500 506 645 727 777 443 348	368	378	387	394	437							C
	0	655 1026 531 667	N CONX N JUNK N LBAR N MFT1	772 71 929 317 659 431 785 402	809 575 442	826 729	752	760								C
(0	744 112 775 777	N MFT2 N MREG N RETO N RET1	846 823 227 335 895 899 895 899	839		.									C
(0	1014 120	N SDFG N SDIC	912 367 233 79	497 705	499 714	728	730	740							Ċ
(0															С

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0	NCONTROL	08/28/81	22:	:41:13	DTSS E	XECUTIVE	(INSERT	SEGMENT)		DTS	S TRADE	SECRET		PAGE 37	0
						CR	OSS REFE	RENCE TA	BLE						RELEASED 01JAN81	_
	343 6	N SEND N SICO	465 184	457 81	188	189	190	191	192							0
0	27 247	N SIC1 N SSDF	196 364	81 344	197	, 0 /	. , 0	.,,								Ö
0	760 1012 100	N TIMF N TIMR NCHAN	869 911 92	779 467 94	5 5 9 9 5	626 98	641 253	642 255								0
0	336 213	NCONT2 NENTER	455 302	450 291	452	70	2,73	د د ی								Ö
	200 206	NFREGO NFREG1	291 291	290 290	, , ,	. 7.										
0	1010 2 1016	NIDLET NIOMS NJBASE	910 88 913	597 126 434	614 130 673	634 145 697	640 147									0
0	1006	NJTEMP	909	417 679	421 686	547 688	548 689	558 69 3	560 694	625	627	639	667	671	674	0
0	553 1022 1020	NLBAR1 NLGTTB NLIGHT	685 921 919	677 919 630	633											
	1004	NNOINT	904	76	719											
0	2	NPROS	87	128 228 913	72 232 919	74 234 922	81 242	108 290	155 291	196 895	197 899	208 909	223 910	226 911	227 912	
0	116 122	N S D B A R N S D M C M	232 237	712 718	737 743											\circ
0	114 353 756	NSDREG NSEND1 NSHALT	228 4 7 5 862	80 532 706	708 7 1 6	732 723										0
	23 43	NSICPO NSICP1	192 197	206 208		123										0
	50 70	NSREGO NSREG1	223	226 226	227 227	228 228										
0	4 11 450 426	NSRUNO NSRUN1 NSRUN2	524 569 544	517 564 538		•										0
0	433 457	NSRUN3 NSWAIT	550 593	542 82	183	508	510	529								0
0	502 772 1030	NSWAT1 NTIMF1 NUNLCK	620 883 930	599 873 316	875 859											Ö
0	272 311	NUSERF NUSRF1	413	345 425	347	350	351	354	355	357	358	375				0
	1003		901 2241	480 2247	883											
0	10 6 7	PDARDR	2244 2242 2243	2247 2247 2247												O
0	0 0 77777	PROC Q RUN	103 848	861 849	852	2277										
0	77 7777 0 777777	Q LINK	1034 847 1033	1039 851 1038												0
																O

0															0
0	NCONTROL 08	8/28/81 22	2:41:13	DTSS E	XECUTIVE	(INSERT	SEGMENT)		DTS	S TRADE	SECRET	PA	GE 38	O
					C R	OSS REFE	RENCE TAI	BLE					RE	LEASED 01JAN81	
0	0 005	4.0.4		530											0
	0 RQF 30 S	104 IC 330	516 331	520 469	579										
0	47 S B	IT 350	351	377	474										0
		CB 371 ID 366	373												O
0		ID 366 EG 327	367 328	444	445	447	449	466	567	571	854				Q
	45 S T	10 347	348												\mathcal{O}
	10 S AR I 31 S BA		329 332	471 374	556 424	430	661								~
	35 S BUS		339	377	464	430	001								Ö
	41 S CA	TW 343	344												
	55 S CL1		357												0
	60 S FR		363 341	377											
	57 S HO		360	376											0
	47 S IN	TP 349	350	376					•						0
	50 S JM		352												
0	42 S S C I		345 366												\circ
	56 S SP		358												
0	36 S SW	AP 339	340	376											Ó
	44 S TC		347												O
	67 S UMI 54 SCOR		368 356												
	61 SCPF		364												0
	35 SFTY	PE 337	338	376	366	377	386	393	439	451	454	456			
	53 \$100		355												\circ
	62 SIOF. 71 SIOT		365 370												
0	70 SIOU		369												0
	40 SIST	KL 96	130												\circ
	40 SJAC 43 SJTII		343 346												
0	32 SLIM		334	377											\circ
	20 SPSTI	KL 97	126												
0	72 SPTII		371	443	446										\circ
	20 SPTL 37 SQUA		330 342	472	557										
0	52 SSTII		354												0
	51 SSVM		353												\cup
	32 STACE		333	376											
	46 STCOR		349 335												\circ
	160 STTS1		126												
0	34 SUTYI		337	376											0
	777777 T LI		861 860												
	215 TSOP(83												0
0	653 TSOP(06 770	84												\circ
_	5600 V AI		142	0.7.0											
	1340 V II 1400 V MI		124 126	930 927											\circ
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0	NCONTROI	08/28/	/81 22	2:41:13	DTSS E)	XECUTIVE	(INSERT	SEGMENT)		DTSS	TRADE SECRE	г	PAGE 39		0
						CR	OSS REFE	RENCE TAE	BLE					RELEASED	01JAN81	
0	100	V PDA	114	116												0
	7100 5200	V PQS V UQS	145 138	147 140												
0	3000	V FTVS V INTV	126 112	128 114												O
0	500	V PREF	116	118												\circ
	10000 1100	VCFILE VPATCH	147 118 "	1012 120												
0	6200 4600	VPTABS VPTYPE	142 136	145 138												0
	3100	VSISTK	128	130												_
0	4200 3600	VUSPEC VUSTAT	134 132	136 134												0
0	3200 1300	VUTICK VXSTAT	130 120	132 122												\circ
	1 4 0	WGIBKL WGIFLG	2267 2262	2280 2263												\circ
0	2	WGIPBT	2264	2265												. 0
	3 1	WGIPTK WGIPUN	2265 2263	2267 2264												
0	1 34	WPTBAS WPTCLN	2277 2285	2278 2287	2288											O
	21	WPTEBT	2281	2282												_
	23 35	WPTEDT WPTEND	2283 2287	2284 2288												0
	20 122	WPTEUN WPTEWC	2280 2282	2281 2283												\bigcirc
	25	WPTFAC	2284	2285										,		
0	4 2	WPTGIF WPTUSR	2279 2278	2280 2279												\cap
	0 1400	WSWPIC X MBX	105 927	621 934												\sim
0	0	X MEM	113	481	717	720	721	744	871	879	884					Ŏ
	0 1	X RQC X TIM	116 1046	518 609	522											
0	0 0	X DABL X FTVO	106 108	242	787					*						0
	0 0	X FTV1 X GTIM	108 109	242 565	603											
0	0	X HANG	110	509	003											0
0	0 141 2	X NCQC X PCWA	114 934	622 935												0
	0 0	X TIME X TIMQ	118 120	566 605	604											
0	10	XCONCH	908	934												O
	0 0	XENABL XIDLEA	107 111	872 644	874											
0	0 1032	XMCHEK XMCMSK	112 933	772 880												\circ
	0	XOVERH	115	562	629										•	
0	136 126	X Q L O C K	263 248	250 85	258 255	476	515									0
																•

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0																	0
0	NCONTROL	08/28/81	22:4	1:13	DTSS E			SEGMENT)			DTSS	TRADE SEC	CRET		PAGE 40		Ö
0	134	XQNLCK	256	86	492	CR(526	OSS REFE	RENCE TAB	LE					F	RELEASED O1JANA	31	0
0	0 0 0	XSWPCT XTIMEL Z IC	117 119 127	384 568 851	458 616												O
0	0 0 0	Z BAR Z BER Z MBA	121 122 130	789 794 795													0
0	0 0 0	Z MBB Z REG Z INTC	131 135 129	796 857 786													Ö
0	0 0 0	Z PROC ZCUHIS ZDUHIS	134 123 124	788 813 840	817 844												0
0	0 0 0	ZFTREG ZFTYPE ZININT	125 126 128	798 790													0
0	0 0 0	ZMDREG ZOPF ZOUHIS	132 136 133	799 339 830	356 834	359	518	523	672	681	881						0
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	NCONTROL	08/28/8	22:41:	:13	DTSS EX	ECUTIVE	(INSERT	SEGMENT)			DTSS	TRADE	SECRET		PAGE 41	0
						МА	CRO CROS	REFEREN	ICE TABLE						RELEASED 01JA	
0	0	ALARM	1548													0
0	0 1 4	ALC APROC		72 399	74 919	81	108	223	226	227	228	242	290	291	895	0
0	0 0 0	ATACH BUG BUGA	1930 1226 1236													0
	0 0 0	CATC CATH CATL	1769 1792 1823													0
0	0 0 0	CATN CHAN CKPT	1844 2027 1270													0
	0 0 0	COPY DABL DEALOC	1578 1188 2057													Ũ
0	1 0 0	DECCT DELC DEQ	2138 5 1973 1371	518												
	0 0	D Q J D T A C H	2091 1933											•		\circ
	0 0 0	DUSE ENABL ENQ	1890 1194 1320													0
0	0 0 0	ENQJ EQJ EXPAND	2108 2075 1497													
	0 0 0	FCBLIS FCBPNT FREE	2049 1682 2007													0
0	2 0 2	FREG FUSE FV	1872 2 76 2	291 290												Õ
0	0 0 0	GET GETB GETBQ	1424 1446 1468													0
0	0 0 0	GETD GFCBC GFDA	1434 1956 1778										,			0
0	0 2 1	GFR GTIM IC	201 3	565 208	603											0
0	0 0	IFIOC IFIOM INSC	75 71 1908													Ö
0	0 2 0	INVERT LGT LOG	1513	19												0
0	0 0 0	LOGF MTASK MTQ	1531 1383 1348												•	C
0	0	MTQA	1357													C

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0																	0
0	NCONTRO	08/28/8	81 22	:41:13	DTSS E	XECUTIVE	(INSERT	SEGMENT)		DTS	S TRADE	SECRET		PAGE 4	2	0
0						МА	CRO CROS	S REFEREN	ICE TABLE	Ē					RELEASE	D 01JAN81	0
	0	ORDER OVCPY	1566 1992														
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