

07773	81	DINT	EQU	7773B	
07774	82	EINT	EQU	7774B	
00000 01004332	83	ENDOS3	EQU	*	IGNCRE THE CHECKING
00001 00004002	84	UJP	EQU	ENDIT	
00002 53430036	85	00	EQU	*-Z+1	ENTER MONITOR STATE
00003 14600020	86	TIM	EQU	LEVEL,0	BACK TO LEVEL ZERO
00004 77634000	87	ENA	EQU	2DB	TURN THE INTERRUPTS BACK ON
00005 01004006	88	ACR	EQU		ENABLE THE CONDITION REGISTER
00006 04006	89	UJP	EQU		
00007 77740000	90	VFD	EQU	*-Z+1	GO MAKE SOME NOISE
00008 00704554	91	RTJ	EQU	A12/EINT	NO LOG IN BEFORE BATCH CHECK
00009 77730000	92	VFD	EQU	MKSCREAM	HOW MANY USERS ARE LEFT
00010 53020035	93	TMA	EQU	A12/DINT	
00011 15477776	94	INA,S	EQU	NU	
00012 03004071	95	AZJ,NE	EQU	-1	JUMP IF JUST IDLE
00013 15477776	96	INA,S	EQU	-1	IS THERE ONLY TWO USERS
00014 03104022	97	AZJ,NE	EQU	END02	IF ONLY TWO USERS ONE MAY BE THE
00015 54777777 X	98	INA,S	EQU	RPSAPTR,X3+PSA	PHANTOM
00016 20377777 X	99	AZJ,I	EQU	TERMINAL,X3+PSA	
00017 12077760	100	LDI,I	EQU	-15	JUMP IF IT WAS THE PHANTOM
00018 03004071	101	LDA	EQU	NOUSERS	
00019 04022	102	SHA	EQU	*-Z	HAS THE OPERATOR SAID TO DIE
00020 20077777 X	103	AZJ,EQ	EQU	INHIBIT	
00021 17677777 X	104	END02	EQU	ANAL	
00022 03004051	105	LOA	EQU	DIEBIT	
00023 53130035	106	END09	EQU	END09	JUMP IF NORMAL END
00024 15177776	107	ANA	EQU	NU,X1	GET THE NUMBER OF USERS
00025 54300016 X	108	END04	EQU	-1,X1	IGNORE IDLE
00026 01004040	109	TMI	EQU	RPSAPTR,X3+PSA	POINT TO IDLE
00027 04031	110	INI	EQU	END08	
00028 14677777 X	111	LDI	EQU	*-Z	CHECK FOR USERS IN CARD READER
00029 37377777 X	112	UJP	EQU	CRWAIT	WAIT
00030 03004036	113	END04	EQU	IOBOUND,X3+PSA	
00031 14677777 X	114	ENA	EQU	END06	LILKY 200 UT WITH NO LOGOFF
00032 00777777 X	115	LPA	EQU	OPTERM	LOGOFF THE JOB
00033 04035	116	AZJ,EQ	EQU	CMQSET	
00034 14677777 X	117	END06	EQU	*-Z	CLEAR A BUNCH OF WAIT BITS
00035 00777777 X	118	RTJ	EQU	NIFWAIT	
00036 04035	119	END08	EQU	ICLEAR	
00037 14477777 X	120	ENA,S	EQU	*-Z	ADVANCE TO THE NEXT USER
00038 04040	121	RTJ	EQU	0,X3+PSA	
00039 20300000	122	END08	EQU	X3+PSA	
00040 53700000	123	LOA	EQU	END04,X1	
00041 02504031	124	TAI	EQU		
00042 04040	125	IJO	EQU		
00043 77740000	126	VFD	EQU	A12/EINT	RUN IDLE FOR 5000 MILLI SECONDS
00044 14111607	127	ENI	EQU	4999,X1	THIS LOOP SHOULD ACTUALLY HANG
00045 14201356	128	ENI	EQU	750,X2	LOOKING AT THE CLOCK WILL NOT
00046 02604046	129	IJO	EQU	*-Z,X2	WORK
00047 02504045	130	IJO	EQU	*-Z-2,X1	SCREAM IF DESIRED
00048 00704554	131	RTJ	EQU	MKSCREAM	
00049 04051	132	END09	EQU	*-Z	
00050 77730000	133	VFD	EQU	A12/DINT	CHECK THAT ALL USERS ARE GONE
00051 53130035	134	END09	EQU	NU,X1	IGNORE IDLE
00052 15177776 X	135	TMI	EQU	-1,X1	POINT TO IDLE
00053 54300027 X	136	INI	EQU	RPSAPTR,X3+PSA	
00054 01004066	137	LDI	EQU	END12	
00055 04056	138	UJP	EQU	*-Z	IS THIS THE PHANTOM
00056 20300017 X	139	END10	EQU	TERMINAL,X3+PSA	
00057 12077760	140	LOA	EQU	-15	JUMP IF IT IS
00058 03004066	141	SHA	EQU	END12	CHECK FOR BATCH JOBS WITH NO
00059 14600031 X	142	AZJ,EQ	EQU	CRWAIT	ILOGOFF CARDS
00060 37300032 X	143	ENA	EQU	IOBOUND,X3+PSA	THIS USER SHOULD BE RUNNING
00061 03004066	144	LPA	EQU	ENDOS3A	HAS THE USER BEEN LOGGED OFF
00062 00737777 X	145	AZJ,EQ	EQU	ACCNUM,X3+PSA	JUMP IF NOT
00063 20377777 X	146	ENDOS3A	EQU	ENDOS3A	
00064 03204005	147	LDA	EQU	*-Z	ADVANCE TO THE NEXT USER
00065 04066	148	AZJ,GE	EQU	0,X3+PSA	
00066 20300000	149	END12	EQU	X3+PSA	
00067 53700000	150	LDA	EQU	END10,X1	
00068 02504056	151	TAI	EQU		
00069 04066	152	IJO	EQU		
00070 04071	153	NOUSERS	EQU	*-Z	
00071 20000022 X	154	LDA	EQU	INHIBIT	GET INHIBIT WORD
00072 17677777 X	155	ANA	EQU	DIEPSUS	CHECK TO SEE IF DIE OR SUSPEND
00073 03104110	156	AZJ,NE	EQU	END125	FORGET ABOUT BATCH QUEUE
00074 14177777 X	157	ENI	EQU	NBATCHQ,X1	GET NUMBER OF BATCH QUEUES
00075 20077777 X	158	LDA	EQU	BIT17	BIT 17 SEZZ QUEUE FULL

00075	21000075 X	160	LDD	BIT17	
00077	08277777 X	161	MEQ	BATCHQ,2	SEE IF ANYBODY WAITING
00100	01004102	162	UJP	*-Z+2	NOPE
00101	01004006	163	UJP	ENDOS3A	LOOP SINCE BATCH JOBS WAITING
00102	20077777 X	164	LDA	I0BUSY	SEE IF I/O BUSY
00103	03104006	165	AZJ,NE	ENDOS3A	SOMETHING GOING ON -- SPLIT
00104	00704537	166	RTJ	LOGOPH	EVERY THING OK BYE BYE PHANTOM
00105	00704566	167	RTJ	GETSYMB	GO DEFINE SYMBOLS
00106	77740000	168	VFD	A12/EINT	INTERRUPT WHILE CHECKING FLAGS
00107	01004324	169	UJP	END14	DO REST OF STUFF

	04110	171	END125	EQU	*-Z
00110	00704537	172		RTJ	LOGOPH
00111	00704566	173		RTJ	GETSYMB
00112	77740000	174		VFD	A12/EINT
00113	200000102 X	175		LDA	I0BUSY
00114	03204117	176		AZJ,GE	*-Z+3
00115	00704554	177		RTJ	MKSCREAM
00116	01004113	178		UJP	*-Z-3
00117	03004206	179		AZJ,EQ	NODEVICE

GOOD BYE PHANTOM
GO DEFINE SYMBOLS
WAIT FOR A WHILE
CHECK TO SEE IF FREEING
JUMP IF NOT
GO SCREAM FOR A WHILE
LOOP TILL NOT FREEING
JUMP IF NO OUTPUT FILES TO SAVE

```

182 * **** THIS SECTION OF CODE WILL CHECK ALL DEVICES FOR OUTPUT FILES *
183 * AND IF FOUND WILL OUTPUT THEM IN THE DEVICE SAVE BLOCKS *
184 **** **** **** **** **** **** **** **** **** **** **** **** **** ****
185
00120 77730000 186 VFD A12/DINT NO INTERFERENCE
J0121 20005303 187 LDA SAVEDBLK GET ADDRESS OF BLOCK FOR DEVICES
00122 40005273 188 STA TEMPBLK SAVE ADDRESS IN DRIVER
00123 14300002 189 ENI 2,X3 SAY THAT ENTRIES AR 2 WORDS
00124 00704415 190 RTJ FINOIT
00125 14100000 191 ENI 0,X1
04126 192 BGNFLP EQU *-Z BLOCK MACRO POINTER
00126 25177777 X 193 LDAQ BLOCKS,X1 GET DEVICE MACRO POINTER
00127 13000030 194 SHAQ 24 NAME TO Q ADD. TO A
00130 41005271 195 STQ TEMP SAVE MACRO NAME
00131 53600000 196 TAI X2 DUMP MACRO ADDRESS INTO X2
00132 20200023 197 LDA QPNT,X2 GET QUEUE ADDRESS
00133 21200006 198 LDQ LNIM,X2 GET MAX RECORD LENGTH
00134 41005272 199 STQ TEMP+1 SAVE FOR A BIT
00135 53600000 200 TAI X2 X2 POINTS TO QUEUE NOW
00136 40200001 201 STA 1,X2 MIGHT AS WELL BE NEAT
00137 20200000 202 LOA 0,X2 GET BEGINNING POINTER
00140 17677777 203 ANA 777778 CHECK ONLY BITS OF INTEREST
00141 47104201 204 STI MACROP,X1 SAVE CURRENT MACRO POINTER
00142 03004201 205 AZJ, EQ FLOOPE END OF LOOP SINCE DEVICE EMPTY
00143 44004167 206 SWA BGNPTR SAVE BEGINNING POINTER
00144 47204145 207 STI *-Z+1,X2 QUEUE POINTER TO STI INSTRUCTION
00145 47000000 208 STI IMPURE,0 EMPTY THE QUEUE
00146 14100000 209 ENI 0,X1
00147 15100001 210 INI 1,X1 INC COUNT OF FILES TO OUTPUT
00150 53600000 211 TAI X2 NEW POINTER
00151 20200000 212 LOA 0,X2 GET NEXT POINTER
00152 04600000 213 ASE 0 SKIP IF DONE
00153 01004147 214 UJP *-Z-4 LOOP TILL END FOUND.
00154 53100000 215 TIA X1 COUNT OF ELEMENTS TO A
00155 12000011 216 SHA 24-15 15 BITZ OF ELEMENT COUNT
00156 21005272 217 LDQ TEMP+1 GET MAX RECORD LENGTH BACK
00157 13000017 218 SHAQ 15 REC. LENGTH 15-23, ELEM.CNT 0-14
00160 41005272 219 STQ TEMP+1 SAVE THIS STUFF
00161 14300002 220 ENI 2,X3 2 WORDS OF INFO
00162 14205270 221 RTJ TEMP-1,X2 WHERE TO START -1
00163 00704463 222 FILEIT PUT IN BLOCK
00164 53100000 223 XOA,S X1
00165 16477777 224 RAD IOBUSY REMOVE THAT MANY FILES
00166 34000113 X 225 EQU *-Z
04167 14200000 226 ENI IMPURE,X2 GET STARTING POINTER
00167 01004174 227 UJP *-Z+4 MIDDLE OF LOOP
04171 04171
00170 20200000 228 FLOOP EQU
00171 04171
00172 20200000 229 LDA
00173 03004201 230 AZJ, EQ
00174 53600000 231 TAI X2
00174 15277776 232+001 INI -1,X2
00175 14300004 232+002 ENI 4,X3 4 WORDS OF INFOMATION
00176 00704463 233 RTJ FILEIT GO PUT IN BUFFER
00177 15200001 234+001 INI
00200 01004171 235 UJP
04201 04201 FLOOP EQU *-Z
04201 236 MACROP EQU *-Z
00201 14100000 237 ENI IMPURE,X1 GET CURRENT MACRO ADDRESS
00202 15100002 238 INI 2,X1 LOOK AT NEXT ONE
00203 05177777 X 239 ISG BLOCKSL,X1 SKIP IF DONE
00204 01004126 240 UJP BGNFLP GET NEXT DEVICE
00205 00704530 241 RTJ BLOCKON OK -- OUTPUT LAST PARTIAL BLOCK
04206 242 EQU *-Z
243 NODEVICE EQU

```

***** THIS SECTION WILL CHECK ALL BATCH QUES FOR JOBS NOT YET RUN.
 * UPON FINDING THEM IT WILL SAVE THEM IN THE BATCH SAVE BLOCKS.
 * THE ROUTINE WILL HANG IF A CONTROL BLOCK IS FOUND THAT
 * IS NOT FINISHED, I.E. THE FILE IS STILL BEING APPENDED. IF THIS
 * HAPPENS IN DIE MODE, THE PARTICULAR BATCH FILE IS IGNORED.

00206 14477777	252	ENA,S	-U	
00207 40005267	253	STA	BACKPTR	FIX BACKWARD POINTER WORD
00210 20005301	254	LDA	SAVEEBBLK	ADDRESS OF BATCH SAVE BLOCK
00211 40005273	255	STA	TEMPBLK	SAVE IN DRIVER
00212 14300007	256	ENI	7,X3	SAY 7 WORD ELEMENTS
00213 00704415	257	RTJ	FINCIT	GO FIND CURRENT END.
00214 14100074 X 04215	258	EQU	NBATCHQ,X1	GET NUMBER OF BATCH QUEUES
	259		*-Z	
	260	DNB01	LDQ	BIT 17 SAYS SOMETHING IN QUEUE
	261		BIT17	
	262		BIT17	
	263		VFD	SAFTY
	264		A12/EINT	SEARCH FOR FULL QUEUE
	265		MEQ	DONE WITH BATCH SAVING
	266		UJP	GET POINTER TO CONTROL BLOCK
	267		LDA	
	268		TAI	SAVE THIS POINTER
	269		SWA	
	270		ENA	ADD PARTICULAR ONE
	271		XIA	TERMINATE QUEUE
	272		STIA	QUEUE NUMBER TO A
	273		TIA	SAVE IT 24 BITS NEEDED
	274		ENI	
	274+001 DNB02		EQU	GET ACCOUNTING WORD
	274+002		LDA	LEAVE ONLY #TASK# BIT
	274+003		LPA	AND SET ONTO JOB NUMBER
	274+004		RAD	INC ELEMENT COUNT
	275		INI	
	276		LDA	FIX FOR NEXT TIME
	277		TAI	CHECK FOR INDIRECT BIT
	278		SHA	JUMP IF MORE IN QUEUE
	278+001		AZJ,LT	COUNT OF ENTRIES TOO
	279		STI	WHERE TO START -1
	280		ENI	2 WORDS OF INFO
	281		ENI	WRITE MESSAGE IF NEEDED
	282		ENI	
	283		STI	
	284		RTJ	
	285		EQU	ADDRESS OF FIRST BLOCK TO X2
	286		ENI	
	287 EPPCHKLP		EQU	
	288		LDA	CHECK TO SEE IF BUSY
	288+001		ASG	SKIP IF NOT A DESTINATION LP
	288+002		UJP	NOPE -- WE CAN USE THIS ONE
	291		BLP01	
	292		INHIBIT	
	293		ANA	CHECK TO SEE IF DIE
	294		AZJ,NE	DONE WITH THIS QUE
	295		STI	SAVE X2 FOR A SEC.
	296		ECHA	ADDRESS OF MESSAGE
	297		ENQ	LENGTH
	298 MESAGN		ENI	RETURN ADDRESS
	299		EQU	
	300		ISE	SKIP IF ALREADY DONE
	301		UJP	GO WRITE MESSAGE - SHOULD BE DINT
	302		STI	SAY MESSAGE OUTPUTED
	303		VFD	ALLOW THINGS TO HAPPEN
	304		RTJ	MAKE NOISE
	305		EQU	
	306		ENI	RESTORE X2
	307 BLP01		EQU	LOOP TILL SOMETHING CHANGES
	308		ENI	
	309		RTJ	7 WORDS OF DATA
	310		LDA	GO MOVE BATCH INFO
	311		TAI	GET NEXT POINTER
	312		SHA	NEW POINTER
	313		AZJ,LT	SHIFT TO INDIRECT BIT
	314 DNSVB		UJP	GO GET NEXT ELEMENT
	315		EQU	TRY NEXT QUEUE
	316		RTJ	
	317		VFD	WE ARE DONE NOW.
	318		LDA	
	319		ANA	

00305 03104312	320	AZJ,NE	END135	JUMP IF TO DIE
00306 00704554	321	RTJ	MKSCREAM	GO MAKE SOME NOISE
00307 20000166 X	322	LDA	TOBUSY	SEE IF EMPTY
00310 03104303	323	AZJ,NE	*-Z-5	HANG IF SOMETHING THERE
00311 01004324	324	UJP	END14	

00312	04312	326	END135	EQU	*-Z 1000,X1	IDLE FOR ABOUT 10 SECONDS
00313	14123420	327		ENI	I0BUSY	
00313	21000307 X	328		LDQ	*-Z	MORE OR LESS
00314	04314	329	END135L	EQU	250,X2	SAVE Q
00315	14200372	330		ENI	TEMP	GO SCREAM FOR A WHILE
00315	41005271	331		STQ	MKSCREAM	GET Q BACK
00316	00704554	332		RTJ	TEMP	IF I0BUSY CHANGES
00317	21005271	333		LDQ	I0BUSY	CHECK AGAIN
00320	20000313 X	334		LDA	END135	LOOP SOME MORE
00321	03504312	335		AQJ,NE	*-Z-5,X2	
00322	02604315	336		IJD	END135L,X1	
00323	02504314	337		IJD		
	04324	338				
00324	00704554	339	END14	EQU	*-Z	NOISE IN CASE
00325	54177777 X	340		RTJ	MKSCREAM	IS TABLES BUSY
00326	02504324	341		LDI	BLKFLAG,X1	KEEP WAITING IF SO
00327	54177777 X	342		IJD	*-Z-2,X1	IS THE TYPEWRITER BUSY
00330	02504324	343		LDI	BUSY,X1	LOOP IF BUSY
00331	01004341	344		IJD	END14,X1	
	04332	345		UJP	ENDIT02	
00332	14677777 X	346				
00333	35000303 X	347	ENDIT	EQU	*-Z	GET RUN IDLE BIT
00334	40000333 X	348		ENA	RUNIBIT	
00335	77630000	349		SSA	INHIBIT	
00336	14600000	350		STA	INHIBIT	
00337	77634000	351		CRA	0	ENABLE THE CONDITIONS REG.
00340	00704566	352		ENA		
	04341	353		ACR	GETSYMB	GO GET SYMBOLS BLOCK INFO
00341	77730000	354		RTJ	*-Z	DON'T ALLOW SCHEDULER TO PROCESS
00342	14605210	355	ENDIT02	EQU	A12/DINT	PARITY ERRORS
00343	44000022	356		VFD	PARITY	PREVENT TABLES FROM WORKING
00344	44000325 X	357		ENA	00022B	BACK TO LEVEL ZERO IF AUTODUMP
00345	53430036	358		SWA	BLKFLAG	ENTRY
00346	14600110	359		SWA	LEVEL,0	MAKE SURE THE CLOCK IS WORKING
00347	44000005	360		TIM	1108	BY SIMULATING A CLOCK INTERRUPT
00350	00700004	361		ENA	00005B	LOAD THE CURRENT CLOCK
00351	53010022	362		SWA	00004B	SAVE FOR SECURITY BLOCK
00352	41005307	363		RTJ	CLOCK	SET AQ = CLOCK
00353	14600000	364		TMQ	LTIME	CONVERT TO MINUTES
00354	51005275	365		STQ	0	SET AQ = MINUTES
00355	13077747	366		ENA	060000	
00356	51005276	367		DVA	-24	STORE THE MINUTES DIGITS
00357	42024470	368	05116 0	SHAQ	TEN	
00360	43024471	369	05116 1	SACH	DATEMSG+12	LOAD THE DATE AND HOUR
00361	53020037	370		SQCH	DATEMSG+13	LEAVE THE HOUR
00362	17600037	371		TMA	DATEFILE	
00363	13077747	372		ANA	37B	
00364	51005276	373		SHAQ	-24	
00365	42024466	374	05115 2	SVA	TEN	
00366	43024467	375	05115 3	SHAQ	DATEMSG+10	STORE THE HOUR INTO THE MESSAGE
00367	53020037	376		SQCH	DATEMSG+11	
00370	17601740	377		TMA	DATEFILE	
00371	13077742	378		ANA	01740B	LEAVE THE DAY OF THE MONTH
00372	51005276	379		SHAQ	-29	
00373	42024460	380	05114 0	SVA	TEN	
00374	43024461	381	05114 1	SHAQ	DATEMSG+4	STORE THE DAY INTO THE MESSAGE
00375	53020037	382		SQCH	DATEMSG+5	
00376	17636000	383		TMA	DATEFILE	
00377	13077735	384		ANA	36000B	
00400	51005276	385		SHAQ	-34	SET AQ = MONTH
00401	42024455	386	05113 1	SVA	TEN	
00402	43024456	387	05113 2	SHAQ	DATEMSG+1	STORE THE MONTH INTO THE MESSAGE
00403	53010037	388		SQCH	DATEMSG+2	
00404	13077761	389		TMQ	DATEFILE	
00405	17700177	390		SHAQ	-14	
00406	51005276	391		ANQ	177B	LEAVE THE YEAR IN AQ
00407	42024463	392	05114 3	DVA	TEN	
00408	43024464	393	05115 0	SACH	DATEMSG+7	STORE THE YEAR INTO THE MESSAGE
00411	11024454	394	05113 0	SQCH	DATEMSG+8	
00412	14700017	395		ECHA	DATEMSG	
00413	14204623	396		ENQ	DATMSG	
00414	01000264 X	397		ENI	PCK00,X2	ENTER THE RETURN
		398		UJP	OPMSG	
		399				

00415 04415
 00416 01000000
 00417 47104461
 00418 47305270
 00419 14301000
 00420 04421
 00421 05301000
 00422 01004447
 00423 200005273
 00424 04400000
 00425 01004431
 00426 04301000
 00427 00004427
 00428 01004460
 00429 04431
 00430 14101000
 00431 14277777 X
 00432 21005266
 00433 00705216
 00434 20007001
 00435 21005267
 00436 03404441
 00437 00004440
 00438 20005273
 00439 40005267
 00440 20007000
 00441 400005273
 00442 15377001
 00443 01004421
 00444 04447
 00445 25307000
 00446 03304457
 00447 04451
 00448 13000030
 00449 17677777
 00450 500005270
 00451 53740000
 00452 15300002
 00453 01004421
 00454 04457
 00455 03104451
 00456 04460
 00457 47304470
 00458 04461
 00459 14100000
 00460 01004415

402 * **** THIS SUBROUTINE WILL SEARCH FOR THE NEXT AVAILABLE LOCATION IN THE *
 403 * PARTICULAR DEVICE SAVE BLOCKS. SOMETIMES THE QUES WILL NOT BE *
 404 * EMPTIED BY INITIAL SO END WILL HAVE TO APPEND TO THEM *
 405 * ****
 406
 407
 408 FINDIT EQU *-Z
 409 UJP IMPURE
 410 STI FX1SVE,X1
 411 STI ENTL,X3
 412 ENI WPFB,X3
 413 FINDLP EQU *-Z
 414 ISG WPFB,X3
 415 UJP BLKFND
 416 LDA TEMPBLK
 417 ASE,S 0
 418 UJP FIPRO
 419 ISE WPFB,X3
 420 HLT *-Z
 421 UJP FNDIT
 422 FIPRO EQU *-Z
 423 ENI WPFB,X1
 424 ENI READ,X2
 425 LDO COREADD
 426 RTJ MSIO
 427 LOA CORE+1
 428 LDQ BACKPTR
 429 AQJ,EQ *-Z+2
 430 HLT *-Z
 431 LDA TEMPBLK
 432 STA BACKPTR
 433 LDA CORE
 434 STA TEMPBLK
 435 INI -WPFB+2,X3
 436 UJP FINDLP
 437 BLKFND EQU *-Z
 438 LDAQ CORE,X3
 439 AZJ,LT POSFND
 440 EQU *-Z
 441 SHAQ 24
 442 ANA 777778
 443 MUA ENTL
 444 IAI X3
 445 INI 2,X3
 446 UJP FINDLP
 447 POSFND EQU *-Z
 448 AZJ,NE NTFND
 449 FNDIT EQU *-Z
 450 STI CURLOC,X3
 451 FX1SVE EQU *-Z
 452 ENI IMPURE,X1
 453 UJP FINDIT
 454
 455
 456
 457
 458
 459
 460
 461
 462
 463
 464
 465
 466
 467
 468
 469
 470
 471
 472
 473
 474
 475
 476
 477
 478
 479
 480
 481
 482
 483
 484
 485
 486
 487
 488
 489
 490
 491
 492
 493
 494
 495
 496
 497
 498
 499
 500
 501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525
 526
 527
 528
 529
 530
 531
 532
 533
 534
 535
 536
 537
 538
 539
 540
 541
 542
 543
 544
 545
 546
 547
 548
 549
 550
 551
 552
 553
 554
 555
 556
 557
 558
 559
 560
 561
 562
 563
 564
 565
 566
 567
 568
 569
 570
 571
 572
 573
 574
 575
 576
 577
 578
 579
 580
 581
 582
 583
 584
 585
 586
 587
 588
 589
 590
 591
 592
 593
 594
 595
 596
 597
 598
 599
 600
 601
 602
 603
 604
 605
 606
 607
 608
 609
 610
 611
 612
 613
 614
 615
 616
 617
 618
 619
 620
 621
 622
 623
 624
 625
 626
 627
 628
 629
 630
 631
 632
 633
 634
 635
 636
 637
 638
 639
 640
 641
 642
 643
 644
 645
 646
 647
 648
 649
 650
 651
 652
 653
 654
 655
 656
 657
 658
 659
 660
 661
 662
 663
 664
 665
 666
 667
 668
 669
 670
 671
 672
 673
 674
 675
 676
 677
 678
 679
 680
 681
 682
 683
 684
 685
 686
 687
 688
 689
 690
 691
 692
 693
 694
 695
 696
 697
 698
 699
 700
 701
 702
 703
 704
 705
 706
 707
 708
 709
 710
 711
 712
 713
 714
 715
 716
 717
 718
 719
 720
 721
 722
 723
 724
 725
 726
 727
 728
 729
 730
 731
 732
 733
 734
 735
 736
 737
 738
 739
 740
 741
 742
 743
 744
 745
 746
 747
 748
 749
 750
 751
 752
 753
 754
 755
 756
 757
 758
 759
 760
 761
 762
 763
 764
 765
 766
 767
 768
 769
 770
 771
 772
 773
 774
 775
 776
 777
 778
 779
 780
 781
 782
 783
 784
 785
 786
 787
 788
 789
 790
 791
 792
 793
 794
 795
 796
 797
 798
 799
 800
 801
 802
 803
 804
 805
 806
 807
 808
 809
 810
 811
 812
 813
 814
 815
 816
 817
 818
 819
 820
 821
 822
 823
 824
 825
 826
 827
 828
 829
 830
 831
 832
 833
 834
 835
 836
 837
 838
 839
 840
 841
 842
 843
 844
 845
 846
 847
 848
 849
 850
 851
 852
 853
 854
 855
 856
 857
 858
 859
 860
 861
 862
 863
 864
 865
 866
 867
 868
 869
 870
 871
 872
 873
 874
 875
 876
 877
 878
 879
 880
 881
 882
 883
 884
 885
 886
 887
 888
 889
 890
 891
 892
 893
 894
 895
 896
 897
 898
 899
 900
 901
 902
 903
 904
 905
 906
 907
 908
 909
 910
 911
 912
 913
 914
 915
 916
 917
 918
 919
 920
 921
 922
 923
 924
 925
 926
 927
 928
 929
 930
 931
 932
 933
 934
 935
 936
 937
 938
 939
 940
 941
 942
 943
 944
 945
 946
 947
 948
 949
 950
 951
 952
 953
 954
 955
 956
 957
 958
 959
 960
 961
 962
 963
 964
 965
 966
 967
 968
 969
 970
 971
 972
 973
 974
 975
 976
 977
 978
 979
 980
 981
 982
 983
 984
 985
 986
 987
 988
 989
 990
 991
 992
 993
 994
 995
 996
 997
 998
 999
 1000

00463	04463	456	FILEIT	EQU	*-Z
00464	01000000	457	UJP	IMPURE	
00465	47104525	458	STI	FIX1SVE,X1	SAVE X1
00466	47204517	459	STI	LOADINS,X2	WHERE DATA COMING FROM
00467	47304522	460	STI	MVCNT,X3	SAVE NUMBER TO MOVE
00468	14300001	461	ENI	1,X3	START AT X2+1
00469	04470	462	CURLOC	EQU	CURRENT LOCATION IN X1
00470	14100000	463	ENI	IMPURE,X1	
00471	04471	464	BGNMVL	EQU	*-Z
00472	05101000	465	ISG	WPFB,X1	IS BUFFER FULL
00473	01004517	466	UJP	LOADINS	NOPE PUT WORD IN
00474	14100000	467	ENI	0,X1	DRIVE ZERO I HOPE
00475	14200001	468	ENI	1,X2	GET ONLY ONE BLOCK
00476	77730000	469	VFD	A12/DINT	
00477	00777777 X	470	RTJ	GETBLK	GO GET FILE BLOCK
00478	400007000	471	STA	CORE	SAVE THE NEW FORWARD POINTER
00479	400005273	472	STA	TEMPBLK	
00480	200005267	473	LOA	BACKPTR	WHERE FULL BLOCK SHOULD GO.
00481	21005266	474	LOQ	COREADD	GET CORE ADDRESS
00482	14277777 X	475	ENI	WRITE,X2	FUNCTION
00483	14101000	476	ENI	WPFB,X1	WRITE OUT FULL BLOCK
00484	00705216	477	RTJ	MSIO	
00485	14100777	478	STA	WPFB-1,X1	
00486	14477777	479	ENI,S	-0	FILL BUFFER WITH -0
00487	40107000	480	STA	CORE,X1	LOOP
00488	02504510	481	IJD	*-Z-1,X1	
00489	200005267	482	LOA	BACKPTR	
00490	400007001	483	STA	CORE+1	FIX BACKWARD POINTER FOR NEXT
00491	005142005273	484	LOA	TEMPBLK	TIME. ADDRESS FOR THIS BLOCK
00492	400005267	485	STA	BACKPTR	
00493	14100002	486	ENI	2,X1	FIX X1
00494	04517	487	LOADINS	EQU	
00495	203000000	488	LOA	IMPURE,X3	GET WORD TO MOVE
00496	40107000	489	STA	CORE,X1	PUT IN BUFFER
00497	15100001	490	INI	1,X1	INC BUFFER POINTER
00498	04522	491	MVCNT	EQU	
00499	103000000	492	ISI	IMPURE,X3	SEE IF DONE
00500	01004471	493	UJP	BGNMVL	GO CONTINUE
00501	47104470	494	STI	CURLOC,X1	SAVE CURRENT LOCATION
00502	04525	495	FIX1SVE	EQU	
00503	14100000	496	ENI	IMPURE,X1	RESTORE X1
00504	54204517	497	LDI	LOADINS,X2	GET X2 BACK
00505	01004463	498	UJP	FILEIT	
00506	04530	499	BLOCKDN	EQU	
00507	01000000	500	UJP	*-Z	LENGTH
00508	14101000	501	ENI	IMPURE	FUNCTION
00509	14200503 X	502	ENI	WPFB,X1	
00510	21005266	503	LOO	WRITE,X2	
00511	200005267	504	LDA	COREADD	WHERE TO GO
00512	00705216	505	RTJ	BACKPTR	GO WRITE IT OUT
00513	01004530	506	UJP	MSIO	EXIT
00514	04537	507	BLOCKDN	EQU	
00515	01000000	508	UJP	*-Z	
00516	54377777 X	509	ENI	IMPURE	
00517	05300001	510	LDI	PSABLK,X3+PSA	ROUTINE TO LOGOFF THE PHANTOM
00518	01004537	511	ISG	1,X3+PSA	SEE IF LOGGED ON
00519	77730000	512	UJP	LOGOPH	SKIP IF SO
00520	14600034 X	513	VFD	A12/DINT	EXIT IF NOT
00521	00700035 X	514	ENA	OPTERM	SAFTY
00522	77740000	515	RTJ	CMQSET	
00523	00704554	516	VFD	A12/EINT	SAY OPERATOR TERMINATION
00524	20000540 X	517	RTJ	MKSCREAM	LET IT HAPPEN
00525	04537	518	LDA	PSABLK	SCREAM IF NEEDED
00526	01000000	519			CHECK TO SEE IF DONE
00527	54377777 X	520			
00528	05300001	521			
00529	01004537	522			
00530	77730000	523			
00531	14600034 X	524			
00532	00700035 X	525			
00533	77740000	526			
00534	00704554	527			
00535	20000540 X	528			
00536	01004530	529			

***** THIS SUBROUTINE WILL MOVE THE INFORMATION FROM DATA AREA STARTED AT *
 * X2+1 TO THE OUTPUT BUFFER. THE ROUTINE WILL TAKE CARE OF ALL I/O *
 * THAT NEED BE DONE WHILE BUILDING BLOCKS. *

***** BLOCKDN IS CALLED TO EMPTY THE PARTIALLY FILLED BUFFER. *

00537	04537	519	LOGOPH	EQU	*-Z
00538	01000000	520	UJP	IMPURE	
00539	54377777 X	521	LDI	PSABLK,X3+PSA	ROUTINE TO LOGOFF THE PHANTOM
00540	05300001	522	ISG	1,X3+PSA	SEE IF LOGGED ON
00541	01004537	523	UJP	LOGOPH	SKIP IF SO
00542	77730000	524	VFD	A12/DINT	EXIT IF NOT
00543	14600034 X	525	ENA	OPTERM	SAFTY
00544	00700035 X	526	RTJ	CMQSET	
00545	77740000	527	VFD	A12/EINT	SAY OPERATOR TERMINATION
00546	00704554	528	RTJ	MKSCREAM	LET IT HAPPEN
00547	20000540 X	529	LDA	PSABLK	SCREAM IF NEEDED
00548	04537	530			CHECK TO SEE IF DONE

00551 04600000	530	ASE	0-Z-3	SKIP IF DONE
00552 01004547	531	UJP	LOGOPH	LOOP TILL DONE
00553 01004537	532	UJP		DONE - RETURN
 ***** ROUTINE TO SCREAM IF SCREAM FLAG IS SET. WILL HANG TILL THE FLAG *****				
***** IS UNSET. *****				
00554 04554 01000000	535	NKSCREAM	EQU *-Z	
	536	UJP	IMPURE	ROUTINE TO MAKE NOISE FOR OPERAT
	538	*		OR
	539			
	540			
00555 04555 20077777 X	541	SCREAMLP	EQU *-Z	GET FLAG
00556 03004554	542	LOA	SCREAM	NO NOISE NEEDED
00557 14100700	543	AZJ,EQ	MKSCREAM	
00560 47104561	544	ENI	700B,X1	TRANSFER INDEXES 1 TO 2
00561 14200000	545	STI	*-Z+1,X1	
00562 02604562	546	ENI	IMPURE,X2	
00563 16477777	547	IJD	*-Z,X2	
00564 02504560	548	XOA,S	-0	
00565 01004555	549	IJD	*-Z-4,X1	
	550	UJP	SCREAMLP	LOOP ON

00566 04566
0100000000567 14607000
00570 13077764
00571 53600000
00572 77654000
00573 12077775
00574 13077762
00575 4100526600576 14600000
00577 14101000
00600 14200432 X
00601 21005266
00602 00705216
00603 14300000
00604 14200000
00605 04605
00606 25207000
00607 33305277
00608 13400000
00610 03004615
00611 15200003
00612 05200776
00613 01004605
00614 00004614
00615 04615
00616 20207002
00617 40305277
00618 15300002
00619 05300010
00620 01004604
00621 01004566

553 *
 554 * THIS SUBROUTINE WILL READ IN THE SYMBOLS BLOCK
 555 *

558 GETSYMB EQU **-Z
 559 UJP IMPURE

561 *
 562 * CALC THE ACTUAL CORE ADDRESS OF THE #CORE# BUFFER FOR MSIO
 563 ENA CORE COMPUTE THE ABSOLUTE ADDRESS OF
 564 SHAQ -11 CORE
 565 TAI X2 PAGE NUMBER TO X2
 566 PFA 0+PFR,X2
 567 SHA -2
 568 SHAQ -13
 569 STQ COREADD
 570
 571
 572 ENDSYMBK EQU *
 573 ENA IMPURE
 574 ENI WPFB,X1
 575 ENI READ,X2
 576 LDQ COREADD
 577 RTJ MSIO
 578 ENI 0,X3
 579 BKR01 EQU *-Z
 580 BKR02 EQU 0,X2
 581 LDAQ CORE,X2
 582 SBAQ BLKLST,X3
 583 SCAQ
 584 AZJ,EQ BKR03
 585 INI 3,X2
 586 ISG WPFB-2,X2
 587 UJP BKR02
 588 HLT *-Z
 589 BKR03 EQU *-Z
 590 LDA CORE+2,X2
 591 STA BLKLST,X3
 592 INI 2,X3
 593 ISG BLKLNT,X3
 594 UJP BKR01
 595 UJP GETSYMB

596

ENTER SYMBOL BLOCK ADDRESS
 READ 1 FILE BLOCK
 ADDRESS TO READ INTO
 INITIALIZE FOR THE LOOP
 COMPARE THE TWO SYMBOLS
 JUMP IF FOUND
 SYMBOL NOT FOUND
 LOAD THE VALUE OF THE SYMBOL
 STORE THE VALUE INTO THE SYMBOL
 SKIP IF NO MORE SYMBOLS TO FIND
 OTHERWISE, LOOP BACK
 RETURN

00623	04623		598	PCK00	EQU	*-Z	
00624	14377777 X		599		ENI	PURELIST,X3	CHECK ALL THE PURE CODE REGIONS
	01004643		600		UJP	PCK03	TO INSURE THE SYSTEM IS INTACT
	04625		601	PCK01	EQU	*-Z	
00625	15377776		602		INI	-1,X3	
00626	25377777 X		603		LCAQ	PURETABL,X3	LOAD THE REGION POINTERS
00627	44004634		604		SWA	PCK02	STORE THE BEGINNING ADDRESS
00630	16677777		605		XUA	777778	FORM THE LENGTH OF THE REGION
00631	53040000		606		AQA		
00632	53600000		607		TAI	X2	
00633	14600000		608		ENA	0	
	04634		609	PCK02	EQU	*-Z	
00634	36200000		610		SCA	IMPURE,X2	
00635	02604634		611		IJD	PCK02,X2	
00636	05600001		612		ASG	1	
00637	03004643		613		AZJ,EQ	PCK03	JUMP IF THE REGION IS UNCHANGED
00640	11024512	05122 2	614		ECHA	PCERMSG	
00641	14700043		615		ENQ	PCERMSGGL	OUTPUT A MESSAGE
00642	01005073		616		UJP	ABEND	
	04643		617				
00643	02704625		618				
			619	PCK03	EQU	*-Z	
			620		IJD	PCK01,X3	JUMP AND CHECK THE NEXT REGION

00644	14377777 X	622		ENI	MXSLIST,3
	04645	623	SUB01	EQU	*-Z
00645	20300000	624		LDA	0,3
00646	03004667	625		AZJ,EQ	SUB05
00647	53700000	626		TAI	3
00650	21300002	627		LDQ	2,3
	04651	628	SUB02	EQU	*-Z
00651	14100644 X	629		ENI	MXSLIST,1
	04652	630	SUB03	EQU	*-Z
00652	20100000	631		LDA	0,1
00653	03004645	632		AZJ,EQ	SUB01
00654	53600000	633		TAI	2
00655	20200001	634		LDA	1,2
00656	03404662	635		AQJ,EQ	SUB04
00657	53200000	636		TIA	2
00660	53500000	637		TAI	1
00661	01004652	638		UJP	SUB03
	04662	639	SUB04	EQU	*-Z
00662	20200000	640		LDA	0,X2
00663	40100000	641		STA	0,1
00664	21200002	642		LDQ	2,2
00665	41300002	643		STQ	2,3
00666	01004651	644		UJP	SUB02
	04667	645	SUB05	EQU	*-Z
00667	14100777	646		ENI	WPFB-1,X1
00670	14600000	647		ENA	
00671	40107000	648		STA	CORE,X1
00672	02504671	649		IJD	*-Z-1,1
00673	14100651 X	650		ENI	MXSLIST,1
00674	14200000	651		ENI	0,2
	04675	652	SUB06	EQU	*-Z
00675	20100000	653		LDA	0,1
00676	03004706	654		AZJ,EQ	SUB07
00677	53500000	655		TAI	1
00700	25100001	656		LDQ	1,1
00701	45207000	657		STAQ	CORE,X2
00702	15200002	658		INI	2,2
00703	05201001	659		ISG	WPFB+1,X2
00704	01004675	660		UJP	SUB06
00705	00004705	661		HLT	*-Z
	04706	662	SUB07	EQU	*-Z
00706	14105205	663		ENI	SUBPROB,X1
00707	47105250	664		STI	IR,X1
00710	14100011	665		ENI	9,X1
00711	47105223	666		STI	ERRRCNT,X1
00712	14101000	667		ENI	WPFB,X1
00713	14277777 X	668		ENI	WRITENS,X2
00714	21005266	669		LDQ	COREADD
00715	20005277	670		LDA	MXSBLOCK
00716	00705216	671		RTJ	MSIO

REMOVE MULTIPLE SUBSTITUTIONS

FILL A FILE BLOCK WITH ZEROS

ENTER THE ERROR ADDRESS

ENTER NUMBER OF TIMES TO TRY

WRITE OUT THE SUBSTITUTION BLOCK

		* SECTION TO PUT CURRENT DATE INTO SECURITY BLOCK	
00717	14605262	673	
00720	44005250	674	*
00721	21005266	675	EN A SMASH
00722	20005305	676	SWA IR
00723	14101000	677	LDQ COREADD
00724	14200600 X	678	LDA SECURITY
00725	00705216	679	ENI WPFB,X1
00726	53020037	680	ENI READ,X2
00727	21005307	681	RTJ MSIO
00730	45007002	682	TMA DATEFILE
00731	14177777 X	683	LDQ LTIME
00732	21177777 X	684	STAQ CORE+CRDATEW
00733	14600000	685	ENI IDLE,X1
00734	40007000	686	LDQ WCTIME,X1
00735	32007004	687	EN A 0
00736	45007004	688	STA CORE
00737	14105213	689	ADAQ CORE+SYSWCT
00740	47105250	690	STAQ CORE+SYSWCT
00741	14100011	691	ENI SECPROB,X1
00742	47105223	692	STI IR,X1
00743	21005266	693	ENI 9,X1
00744	20005305	694	STI ERRCNT,X1
00745	14101000	695	LDQ COREADD
00746	14200713 X	696	LDA SECURITY
00747	00705216	697	ENI WPFB,X1
		698	ENI WRITENS,X2
		699	RTJ MSIO

ENTER THE ERROR ADDRESS

READ IN THE SECURITY BLOCK

GET CURRENT DATE
GET CURRENT TIMEGET THE NUMBER OF SECONDS THE
SYSTEM WAS RUNNING

CLEAR SYSTEM RUNNING BIT

ADD IN THE TIME TO DATE

STORE THE NEW TOTAL BACK

ENTER THE ERROR ADDRESS

ENTER NUMBER OF TIMES TO TRY

00750	14677777 X	701	ENA	DISKPNT	COMPUTE THE ADDRESS OF DISKPNT
00751	15677777 X	702	INA	MSUNITS	
00752	15600751 X	703	INA	MSUNITS	
00753	44005265	704	SWA	DISKPNT	
00754	14605263	705	ENA	MZERO	
00755	13077764	706	SHAQ	-11	COMPUTE THE ABSOLUTE ADDRESS OF
00756	53600000	707	TAI	X2	MZERO
00757	77654000	708	PFA	0+PFR,X2	
00760	12077775	709	SHA	-2	
00761	13077762	710	SHAQ	-13	
00762	41005274	711	STQ	MZEROADD	
00763	14100752 X	712	ENI	MSUNITS,X1	
00764	16177777	713	XOI	77777B,X1	
00765	47105024	714	STI	DT06,X1	
00766	16177777	715	XOI	77777B,X1	
00767	15177777 X	716	INI	MSUNITM1,X1	
	04770	717 DT02	EQU	*-Z	
00770	20177777 X	718	LDA	ARRAYTBL,X1	ARE THERE TABLES IN CORE FOR
00771	03005067	719	AZJ,EQ	DTEND	THIS UNIT
00772	53700000	720	TAI	X3	TABLE POINTER TO X3
00773	20300000	721	LDA	0,X3	
00774	47105057	722	STI	DT10,X1	SAVE THE UNIT NUMBER
00775	03105010	723	AZJ,NE	DT04	JUMP IF NOT THE LAST BLOCK
00776	40100770 X	724	STA	ARRAYTBL,X1	REMOVE THIS BLOCK
00777	20100750 X	725	LDA	DISKPNT,X1	LOAD THE DISK POINTER
01000	40005264	726	STA	MZERO+1	
01001	20300001	727	LDA	1,X3	LOAD THE WORD COUNT
01002	15600002	728	INA	2	ALLOW FOR THE BLOCK POINTERS
01003	21405265	729	LUQ,I	DISKPNT *X1*	LOAD THE BACKWARD POINTER
01004	23500000	730	TAI	X1	
01005	14477777	731	ENA,S	77777B	SET FORWARD POINTER TO -0
01006	45300000	732	STAQ	0,X3	SET THE POINTERS
01007	01005042	733	UJP	DT08	
	05010	734			
01010	53700000	735 DT04	EQU	*-Z	
01011	20300000	736	TAI	X3	
01012	40500776 X	737	LDA	0,X3	REMOVE THIS BLOCK
01013	21405265	738	STA,I	ARRAYTBL,X1	
01014	41300001	739	LDQ,I	DISKPNT *X1*	LOAD THE BACKWARD POINTER
01015	21100777 X	740	STQ	1,X3	SET THE BACKWARD POINTER
01016	41005264	741	LDQ	DISKPNT,X1	LOAD THE CURRENT BLOCK
01017	41405265	742	STQ	MZERO+1	SAVE IT
	05020	743 DT05	STQ,I	DISKPNT *X1*	SET THE NEW BACK POINTER
01020	14200001	744	EQU	*-Z	
01021	05100763 X	745	ENI	1,X2	ASSUME BLOCKS
01022	01005025	746	ISG	MSUNITS,X1	SKIP IF PAGES
01023	14200004	747	UJP	*-Z+3	
	05024	748 DT06	ENI	4,X2	SAY PAGES
01024	15100000	749	EQU	*-Z	
01025	00700476 X	750	INI	IMPURE,X1	IMPURE = -MSUNITS
01026	54105057	751	RTJ	GETBLK	
01027	40101015 X	752	LDI	DT10,X1	LOAD THE UNIT NUMBER
01030	40300000	753	STA	DISKPNT,X1	SAVE THE NEW POINTER
01031	21005274	754	STA	0,X3	SAVE IT ON THE BLOCK ALSO
01032	14100001	755	LDQ	MZEROADD	LOAD CORE ADDRESS
01033	47105223	756	ENI	1,X1	ALLOW TWO SETS OF ERRORS
01034	14105061	757	STI	ERRCNT,X1	
01035	47105250	758	ENI	DT12,X1	ENTER THE ERROR ADDRESS
01036	14100002	759	STI	IR,X1	
01037	142000746 X	760	ENI	2,X1	WRITE JUST 2 WORDS
01040	00705216	761	ENI	WRITENS,X2	
	05041	762 DT07	RTJ	MSIO	
01041	14100100	763	EQU	*-Z	
	05042	764 DT08	ENI	64,X1	WRITE 64 WORDS
01042	53300000	765	ENI	*-Z	
01043	13077764	766	TIA	X3	BLOCK ADDRESS TO A
01044	53600000	767	SHAQ	-11	ALL BUT PAGE BITS TO Q
01045	77654000	768	TAI	X2	
01046	12077775	769	PFA	0+PFR,X2	
01047	13077762	770	SHA	-2	
01050	20005264	771	SHAQ	-13	
01051	14205282	772	LDA	MZERO+1	LOAD THE DISK ADDRESS
01052	47205250	773	ENI	SMASH,X2	ENTER THE ERROR ADDRESS
01053	14200011	774	STI	IR,X2	
01054	47205223	775	ENI	9,X2	ENTER NUMBER OF TIMES TO TRY
01055	14201037 X	776	STI	ERRCNT,X2	
01056	00705216	777	ENI	WRITENS,X2	
	05057	778 DT10	RTJ	MSIO	
	05057	779	EQU	*-Z	

01057 14100000	780	ENI	IMPURE,X1
01060 01004770	781	UJP	DT02
	782		
05061	783	DT12	*-Z
01061 54105057	784	EQU	DT10,X1
01062 20101012 X	785	LDI	LOAD THE UNIT NUMBER
01063 03105020	786	LDA	ARE MORE BLOCK AVAILABLE ON THIS
01064 14477777	787	AZJ,NE	THIS UNIT
01065 40300000	788	ENA,S	FORGET ABOUT ANY MORE BLOCKS
01066 01005041	789	STA	777778
	790	UJP	0,X3
05067	791	DTEND	*-Z
01067 02504770	792	IJD	DT02,X1

LOOP THRU ALL THE UNITS

			794	*	SECTION TO TYPE MESSAGE FOR END OF OS3
			795		
01070	11024473	05116 3	796	ECHA	ENDMSG
01071	14700010		797	ENQ	8
01072	01005074		798	UJP	END
	05073		799	ABEND	*-Z
01073	47005102		800	EQU	CRY,0
	05074		801	STI	*-Z
01074	77600400		802	EQU	PAUS
01075	01005074		803	UJP	0400B
01076	53420023		804	TAM	*-Z-1
01077	53040000		805	AQA	23B
01100	53420033		806	TAM	33B
01101	77760000		807	CTO	
	05102		808	CRY	*-Z
01102	04000007		809	EQU	ISE
01103	00003700		810		7+IMPURE,0
01104	14101000		811		3700B
01105	47105106		812		ENI
01106	14200000		813		10000B,X1
01107	16477777		814		*-Z+1,X1
01110	02605110		815		IMPURE,X2
01111	02505105		816		77777B
01112	01005104		817		*-Z,X2
	24454		818	DATEMSG	*-Z-4,X1
01113	77444461		819	EQU,C	*-Z-6
	00017		820	BCD,C	15,^MM/DD/YY HHHH^
	24473		821	DATEMSL	*-Z-DATEMSG
01116	30307777		822	EQU,C	*-Z
	24503		823	ENDMSG	8,^ENDOS3^
01120	62037777		824	EQU,C	*-Z
	24512		825	ABMSG	7,^ABEND^
01122	24777762		826	EQU,C	*-Z
	00043		827	PCERMSG	35,^SYSTEM PC ERRORS TAKE DUMP^^^^^
	24555		828	EQU,C	*-Z-POERMSG
01133	77776445		829	SUBMESS	*-Z
	00062		830	EQU,C	50,^UNABLE TO WRITE SUBSTITUTION BLOCK TAKE DUMP^^^^^
	24637		831	SUBMESSL	*-Z-SUBMESS
01147	77777777		832	EQU,C	*-Z
	00043		833	PARMESS	35,^MEMORY PARITY ERROR TAKE DUMP^^^^^
	24702		834	EQU,C	*-Z-PARMESS
01160	77777764		835	SECMESS	*-Z
	00062		836	EQU,C	50,^UNABLE TO WRITE OUT SECURITY BLOCK TAKE DUMP^^^^^
	24764		837	SECMESSL	*-Z-SECMESS
01175	77662131		838	EQU,C	*-Z
	00036		839	BADBATCH	30,^WAITING ON UNENDED BATCH JOBA
01204			840	EQU,C	*-Z-BADBATCH
				BSS	0,^RETRY CYCLE FIX THE PROGRAM COUNTER

01205	11024555	05133 1	842	SUBPROB	EQU	*-Z
01206	14700062		843	ECHA		SUBMESS
01207	01005073		844	ENQ		SUBMESSL
			845	UJP		ABEND
			846			
			847	PARITY	EQU	*-Z
01210	11024637	05147 3	848	ECHA		PARMESS
01211	14700043		849	ENQ		PARMESSL
01212	01005073		850	UJP		ABEND
			851			
			852	SECPROB	EQU	*-Z
01213	11024702	05160 2	853	ECHA		SECMESS
01214	14700062		854	ENQ		SECMESSL
01215	01005073		855	UJP		ABEND

```

858 *
859 * PSEUDO DISK DRIVER
860 *
861
862
863 MSIO EQU *-Z
864 UJP IMPURE
865 STI MSIOX3,X3
866 STAQ IOAQ
867 STI IOX1,X1
868 STI IOX2,X2
869 ERRCNT EQU *-Z
870 ENI 9+IMPURE,X3
871 MSIOZ EQU *-Z
872 STI WLIM,X3
873 ENI IOWAIT,X3
874 STI MSFLAG,X1
875 STI IRFLAG,X1
876 VFD A12/DINT
877 RTJ FINK
878 VFD A12/EINT
879 MSIOX3 EQU *-Z
880 ENI IMPURE,X3
881 MSFLAG EQU *-Z
882 ISE IMPURE,0
883 UJP *-Z-1
884 VFD A12/DINT
885 EQU *-Z
886 UJP IMPURE,0
887 VFD A12/DINT
888 IRFLAG EQU *-Z
889 ISE IMPURE,0
890 UJP MSIO
891 LDI IOX2,X2
892 ISE READ,X2
893 UJP WLIM
894 IRWAIT EQU *-Z
895 VFD A12/EINT
896 LDI BUSY,X1
897 IJD *-Z-1,X1
898 VFD A12/DINT
899 EQU *-Z
900 IR EQU *-Z
901 UJP SMASH+IMPURE
902 WLIM EQU *-Z
903 ENI IMPURE,X3
904 LDI IOX1,X1
905 LDAQ IOAQ
906 IJD MSIOZ,X3
907 LDI MSIOX3,X3
908 UJP IRRAIT
909 IOWAIT STI IRFLAG,0
910 ENI *-Z
911 LDI *-Z
912 LDAQ
913 IJD
914 LDI
915 LDI
916 UJP
917 IOWAIT STI *-Z
918 ENI MSFLAG,0
919 LDI 0,X3
920 IJD
921 LDI
922 UJP
923 SMASH EQU *-Z
924 HLT *-Z

```

SAVE X3
SAVE THE ADDRESSES
SAVE THE WORD COUNT
SAVE THE IO COMMAND

ENTER THE RETRY COUNT

SET THE FLAG TO SAY NO ERROR.

SKIP IF WE HAD AN ERROR
NORMAL EXIT IF NOT

LOAD THE IO COMMAND

IS THE TYPEWRITTER BUSY

IRRECOVERABLE MASS STORAGE ERROR

ENTER THE COUNTER
RESTORE THE WORD COUNT
AND THE ADDRESSES

RESTORE THE CALLERS X3

SAY WE HAD AN ERROR

```

927 ****
928 * STAND ALONE DISK DRIVER
929 *
930 * THIS CODE IS NOT CURRENTLY BEING USED BUT IS LEFT HERE IN CASE
931 * IT IS NEEDED IN THE FUTURE
932 ****
934 ****
936 *
937 * RDLABELX EQU    *-Z
938 * ENA      0
939 * RDLABEL  EQU    *-Z
940 * UJP      IMPURE
941 * SWA      RDLBLCON
942 * SHA      -12
943 * ACI
944 * TAI
945 * ANI      00007B,X1      SAVE JUST THE CHANNEL NUMBER
946 * ENA
947 * SHA
948 * XOA
949 * SWA
950 * ENI
951 * ENA
952 * STA
953 * IJD
954 * ENA,S
955 * RDLBLOVR EQU    IOCL
956 * SWA
957 * ENI
958 * VFD
959 * IJD
960 * ISG
961 * UJP
962 * ENA
963 * STA
964 * ENI
965 * EXS
966 * EXS
967 * IJD
968 * ENI
969 * RTJ
970 * SEL
971 * UJP
972 * ENA,S
973 * INPW
974 * UJP
975 * RTJ
976 * ENI
977 * RDLBLCON EQU    A9/CON,A15/IMPURE
978 * IOCL
979 * SWA
980 * ENA,S
981 * SCA
982 * IJD
983 * AZJ,NE
984 * AZJ,LT
985 * LDA
986 * UJP
987 * RDLBLAGN EQU    IO,CORE,CORE+LABEL
988 * ENA
989 * INA,S
990 * AZJ,GE
991 * UJP
992 * EJECT
993 * WRITEX  EQU    *-Z
994 * UJP
995 * IMPURE
996 * PRESET
997 * ZAP     EQU    *-Z
998 * IOCL
999 * 377B
1000 * ENI
1001 * RTJ
1002 * SEL
1003 * UJP
1004 * ENA,S
1005 * OUTW
1006 * 0
1007 * IO,CORE,CORE+WPFB
1008 * 0,1
1009 * SELECT
1010 * LOAD
1011 * CONNECT
1012 * ENTER THE ABNORMAL ADDRESS
1013 * 41B,SELECT
1014 * 0,1
1015 * SELECT
1016 * LOAD
1017 * IO,CORE,CORE+WPFB
1018 * 0
1019 * SELECT
1020 * LOAD
1021 * IO,CORE,CORE+WPFB
1022 * 0
1023 * SELECT
1024 * LOAD
1025 * IO,CORE,CORE+WPFB
1026 * 0
1027 * SELECT
1028 * LOAD
1029 * IO,CORE,CORE+WPFB
1030 * 0
1031 * SELECT
1032 * LOAD
1033 * IO,CORE,CORE+WPFB
1034 * 0
1035 * SELECT
1036 * LOAD
1037 * IO,CORE,CORE+WPFB
1038 * 0
1039 * SELECT
1040 * LOAD
1041 * IO,CORE,CORE+WPFB
1042 * 0
1043 * SELECT
1044 * LOAD
1045 * IO,CORE,CORE+WPFB
1046 * 0
1047 * SELECT
1048 * LOAD
1049 * IO,CORE,CORE+WPFB
1050 * 0
1051 * SELECT
1052 * LOAD
1053 * IO,CORE,CORE+WPFB
1054 * 0
1055 * SELECT
1056 * LOAD
1057 * IO,CORE,CORE+WPFB
1058 * 0
1059 * SELECT
1060 * LOAD
1061 * IO,CORE,CORE+WPFB
1062 * 0
1063 * SELECT
1064 * LOAD
1065 * IO,CORE,CORE+WPFB
1066 * 0
1067 * SELECT
1068 * LOAD
1069 * IO,CORE,CORE+WPFB
1070 * 0
1071 * SELECT
1072 * LOAD
1073 * IO,CORE,CORE+WPFB
1074 * 0
1075 * SELECT
1076 * LOAD
1077 * IO,CORE,CORE+WPFB
1078 * 0
1079 * SELECT
1080 * LOAD
1081 * IO,CORE,CORE+WPFB
1082 * 0
1083 * SELECT
1084 * LOAD
1085 * IO,CORE,CORE+WPFB
1086 * 0
1087 * SELECT
1088 * LOAD
1089 * IO,CORE,CORE+WPFB
1090 * 0
1091 * SELECT
1092 * LOAD
1093 * IO,CORE,CORE+WPFB
1094 * 0
1095 * SELECT
1096 * LOAD
1097 * IO,CORE,CORE+WPFB
1098 * 0
1099 * SELECT
1100 * LOAD
1101 * IO,CORE,CORE+WPFB
1102 * 0
1103 * SELECT
1104 * LOAD
1105 * IO,CORE,CORE+WPFB
1106 * 0
1107 * SELECT
1108 * LOAD
1109 * IO,CORE,CORE+WPFB
1110 * 0
1111 * SELECT
1112 * LOAD
1113 * IO,CORE,CORE+WPFB
1114 * 0
1115 * SELECT
1116 * LOAD
1117 * IO,CORE,CORE+WPFB
1118 * 0
1119 * SELECT
1120 * LOAD
1121 * IO,CORE,CORE+WPFB
1122 * 0
1123 * SELECT
1124 * LOAD
1125 * IO,CORE,CORE+WPFB
1126 * 0
1127 * SELECT
1128 * LOAD
1129 * IO,CORE,CORE+WPFB
1130 * 0
1131 * SELECT
1132 * LOAD
1133 * IO,CORE,CORE+WPFB
1134 * 0
1135 * SELECT
1136 * LOAD
1137 * IO,CORE,CORE+WPFB
1138 * 0
1139 * SELECT
1140 * LOAD
1141 * IO,CORE,CORE+WPFB
1142 * 0
1143 * SELECT
1144 * LOAD
1145 * IO,CORE,CORE+WPFB
1146 * 0
1147 * SELECT
1148 * LOAD
1149 * IO,CORE,CORE+WPFB
1150 * 0
1151 * SELECT
1152 * LOAD
1153 * IO,CORE,CORE+WPFB
1154 * 0
1155 * SELECT
1156 * LOAD
1157 * IO,CORE,CORE+WPFB
1158 * 0
1159 * SELECT
1160 * LOAD
1161 * IO,CORE,CORE+WPFB
1162 * 0
1163 * SELECT
1164 * LOAD
1165 * IO,CORE,CORE+WPFB
1166 * 0
1167 * SELECT
1168 * LOAD
1169 * IO,CORE,CORE+WPFB
1170 * 0
1171 * SELECT
1172 * LOAD
1173 * IO,CORE,CORE+WPFB
1174 * 0
1175 * SELECT
1176 * LOAD
1177 * IO,CORE,CORE+WPFB
1178 * 0
1179 * SELECT
1180 * LOAD
1181 * IO,CORE,CORE+WPFB
1182 * 0
1183 * SELECT
1184 * LOAD
1185 * IO,CORE,CORE+WPFB
1186 * 0
1187 * SELECT
1188 * LOAD
1189 * IO,CORE,CORE+WPFB
1190 * 0
1191 * SELECT
1192 * LOAD
1193 * IO,CORE,CORE+WPFB
1194 * 0
1195 * SELECT
1196 * LOAD
1197 * IO,CORE,CORE+WPFB
1198 * 0
1199 * SELECT
1200 * LOAD
1201 * IO,CORE,CORE+WPFB
1202 * 0
1203 * SELECT
1204 * LOAD
1205 * IO,CORE,CORE+WPFB
1206 * 0
1207 * SELECT
1208 * LOAD
1209 * IO,CORE,CORE+WPFB
1210 * 0
1211 * SELECT
1212 * LOAD
1213 * IO,CORE,CORE+WPFB
1214 * 0
1215 * SELECT
1216 * LOAD
1217 * IO,CORE,CORE+WPFB
1218 * 0
1219 * SELECT
1220 * LOAD
1221 * IO,CORE,CORE+WPFB
1222 * 0
1223 * SELECT
1224 * LOAD
1225 * IO,CORE,CORE+WPFB
1226 * 0
1227 * SELECT
1228 * LOAD
1229 * IO,CORE,CORE+WPFB
1230 * 0
1231 * SELECT
1232 * LOAD
1233 * IO,CORE,CORE+WPFB
1234 * 0
1235 * SELECT
1236 * LOAD
1237 * IO,CORE,CORE+WPFB
1238 * 0
1239 * SELECT
1240 * LOAD
1241 * IO,CORE,CORE+WPFB
1242 * 0
1243 * SELECT
1244 * LOAD
1245 * IO,CORE,CORE+WPFB
1246 * 0
1247 * SELECT
1248 * LOAD
1249 * IO,CORE,CORE+WPFB
1250 * 0
1251 * SELECT
1252 * LOAD
1253 * IO,CORE,CORE+WPFB
1254 * 0
1255 * SELECT
1256 * LOAD
1257 * IO,CORE,CORE+WPFB
1258 * 0
1259 * SELECT
1260 * LOAD
1261 * IO,CORE,CORE+WPFB
1262 * 0
1263 * SELECT
1264 * LOAD
1265 * IO,CORE,CORE+WPFB
1266 * 0
1267 * SELECT
1268 * LOAD
1269 * IO,CORE,CORE+WPFB
1270 * 0
1271 * SELECT
1272 * LOAD
1273 * IO,CORE,CORE+WPFB
1274 * 0
1275 * SELECT
1276 * LOAD
1277 * IO,CORE,CORE+WPFB
1278 * 0
1279 * SELECT
1280 * LOAD
1281 * IO,CORE,CORE+WPFB
1282 * 0
1283 * SELECT
1284 * LOAD
1285 * IO,CORE,CORE+WPFB
1286 * 0
1287 * SELECT
1288 * LOAD
1289 * IO,CORE,CORE+WPFB
1290 * 0
1291 * SELECT
1292 * LOAD
1293 * IO,CORE,CORE+WPFB
1294 * 0
1295 * SELECT
1296 * LOAD
1297 * IO,CORE,CORE+WPFB
1298 * 0
1299 * SELECT
1300 * LOAD
1301 * IO,CORE,CORE+WPFB
1302 * 0
1303 * SELECT
1304 * LOAD
1305 * IO,CORE,CORE+WPFB
1306 * 0
1307 * SELECT
1308 * LOAD
1309 * IO,CORE,CORE+WPFB
1310 * 0
1311 * SELECT
1312 * LOAD
1313 * IO,CORE,CORE+WPFB
1314 * 0
1315 * SELECT
1316 * LOAD
1317 * IO,CORE,CORE+WPFB
1318 * 0
1319 * SELECT
1320 * LOAD
1321 * IO,CORE,CORE+WPFB
1322 * 0
1323 * SELECT
1324 * LOAD
1325 * IO,CORE,CORE+WPFB
1326 * 0
1327 * SELECT
1328 * LOAD
1329 * IO,CORE,CORE+WPFB
1330 * 0
1331 * SELECT
1332 * LOAD
1333 * IO,CORE,CORE+WPFB
1334 * 0
1335 * SELECT
1336 * LOAD
1337 * IO,CORE,CORE+WPFB
1338 * 0
1339 * SELECT
1340 * LOAD
1341 * IO,CORE,CORE+WPFB
1342 * 0
1343 * SELECT
1344 * LOAD
1345 * IO,CORE,CORE+WPFB
1346 * 0
1347 * SELECT
1348 * LOAD
1349 * IO,CORE,CORE+WPFB
1350 * 0
1351 * SELECT
1352 * LOAD
1353 * IO,CORE,CORE+WPFB
1354 * 0
1355 * SELECT
1356 * LOAD
1357 * IO,CORE,CORE+WPFB
1358 * 0
1359 * SELECT
1360 * LOAD
1361 * IO,CORE,CORE+WPFB
1362 * 0
1363 * SELECT
1364 * LOAD
1365 * IO,CORE,CORE+WPFB
1366 * 0
1367 * SELECT
1368 * LOAD
1369 * IO,CORE,CORE+WPFB
1370 * 0
1371 * SELECT
1372 * LOAD
1373 * IO,CORE,CORE+WPFB
1374 * 0
1375 * SELECT
1376 * LOAD
1377 * IO,CORE,CORE+WPFB
1378 * 0
1379 * SELECT
1380 * LOAD
1381 * IO,CORE,CORE+WPFB
1382 * 0
1383 * SELECT
1384 * LOAD
1385 * IO,CORE,CORE+WPFB
1386 * 0
1387 * SELECT
1388 * LOAD
1389 * IO,CORE,CORE+WPFB
1390 * 0
1391 * SELECT
1392 * LOAD
1393 * IO,CORE,CORE+WPFB
1394 * 0
1395 * SELECT
1396 * LOAD
1397 * IO,CORE,CORE+WPFB
1398 * 0
1399 * SELECT
1400 * LOAD
1401 * IO,CORE,CORE+WPFB
1402 * 0
1403 * SELECT
1404 * LOAD
1405 * IO,CORE,CORE+WPFB
1406 * 0
1407 * SELECT
1408 * LOAD
1409 * IO,CORE,CORE+WPFB
1410 * 0
1411 * SELECT
1412 * LOAD
1413 * IO,CORE,CORE+WPFB
1414 * 0
1415 * SELECT
1416 * LOAD
1417 * IO,CORE,CORE+WPFB
1418 * 0
1419 * SELECT
1420 * LOAD
1421 * IO,CORE,CORE+WPFB
1422 * 0
1423 * SELECT
1424 * LOAD
1425 * IO,CORE,CORE+WPFB
1426 * 0
1427 * SELECT
1428 * LOAD
1429 * IO,CORE,CORE+WPFB
1430 * 0
1431 * SELECT
1432 * LOAD
1433 * IO,CORE,CORE+WPFB
1434 * 0
1435 * SELECT
1436 * LOAD
1437 * IO,CORE,CORE+WPFB
1438 * 0
1439 * SELECT
1440 * LOAD
1441 * IO,CORE,CORE+WPFB
1442 * 0
1443 * SELECT
1444 * LOAD
1445 * IO,CORE,CORE+WPFB
1446 * 0
1447 * SELECT
1448 * LOAD
1449 * IO,CORE,CORE+WPFB
1450 * 0
1451 * SELECT
1452 * LOAD
1453 * IO,CORE,CORE+WPFB
1454 * 0
1455 * SELECT
1456 * LOAD
1457 * IO,CORE,CORE+WPFB
1458 * 0
1459 * SELECT
1460 * LOAD
1461 * IO,CORE,CORE+WPFB
1462 * 0
1463 * SELECT
1464 * LOAD
1465 * IO,CORE,CORE+WPFB
1466 * 0
1467 * SELECT
1468 * LOAD
1469 * IO,CORE,CORE+WPFB
1470 * 0
1471 * SELECT
1472 * LOAD
1473 * IO,CORE,CORE+WPFB
1474 * 0
1475 * SELECT
1476 * LOAD
1477 * IO,CORE,CORE+WPFB
1478 * 0
1479 * SELECT
1480 * LOAD
1481 * IO,CORE,CORE+WPFB
1482 * 0
1483 * SELECT
1484 * LOAD
1485 * IO,CORE,CORE+WPFB
1486 * 0
1487 * SELECT
1488 * LOAD
1489 * IO,CORE,CORE+WPFB
1490 * 0
1491 * SELECT
1492 * LOAD
1493 * IO,CORE,CORE+WPFB
1494 * 0
1495 * SELECT
1496 * LOAD
1497 * IO,CORE,CORE+WPFB
1498 * 0
1499 * SELECT
1500 * LOAD
1501 * IO,CORE,CORE+WPFB
1502 * 0
1503 * SELECT
1504 * LOAD
1505 * IO,CORE,CORE+WPFB
1506 * 0
1507 * SELECT
1508 * LOAD
1509 * IO,CORE,CORE+WPFB
1510 * 0
1511 * SELECT
1512 * LOAD
1513 * IO,CORE,CORE+WPFB
1514 * 0
1515 * SELECT
1516 * LOAD
1517 * IO,CORE,CORE+WPFB
1518 * 0
1519 * SELECT
1520 * LOAD
1521 * IO,CORE,CORE+WPFB
1522 * 0
1523 * SELECT
1524 * LOAD
1525 * IO,CORE,CORE+WPFB
1526 * 0
1527 * SELECT
1528 * LOAD
1529 * IO,CORE,CORE+WPFB
1530 * 0
1531 * SELECT
1532 * LOAD
1533 * IO,CORE,CORE+WPFB
1534 * 0
1535 * SELECT
1536 * LOAD
1537 * IO,CORE,CORE+WPFB
1538 * 0
1539 * SELECT
1540 * LOAD
1541 * IO,CORE,CORE+WPFB
1542 * 0
1543 * SELECT
1544 * LOAD
1545 * IO,CORE,CORE+WPFB
1546 * 0
1547 * SELECT
1548 * LOAD
1549 * IO,CORE,CORE+WPFB
1550 * 0
1551 * SELECT
1552 * LOAD
1553 * IO,CORE,CORE+WPFB
1554 * 0
1555 * SELECT
1556 * LOAD
1557 * IO,CORE,CORE+WPFB
1558 * 0
1559 * SELECT
1560 * LOAD
1561 * IO,CORE,CORE+WPFB
1562 * 0
1563 * SELECT
1564 * LOAD
1565 * IO,CORE,CORE+WPFB
1566 * 0
1567 * SELECT
1568 * LOAD
1569 * IO,CORE,CORE+WPFB
1570 * 0
1571 * SELECT
1572 * LOAD
1573 * IO,CORE,CORE+WPFB
1574 * 0
1575 * SELECT
1576 * LOAD
1577 * IO,CORE,CORE+WPFB
1578 * 0
1579 * SELECT
1580 * LOAD
1581 * IO,CORE,CORE+WPFB
1582 * 0
1583 * SELECT
1584 * LOAD
1585 * IO,CORE,CORE+WPFB
1586 * 0
1587 * SELECT
1588 * LOAD
1589 * IO,CORE,CORE+WPFB
1590 * 0
1591 * SELECT
1592 * LOAD
1593 * IO,CORE,CORE+WPFB
1594 * 0
1595 * SELECT
1596 * LOAD
1597 * IO,CORE,CORE+WPFB
1598 * 0
1599 * SELECT
1600 * LOAD
1601 * IO,CORE,CORE+WPFB
1602 * 0
1603 * SELECT
1604 * LOAD
1605 * IO,CORE,CORE+WPFB
1606 * 0
1607 * SELECT
1608 * LOAD
1609 * IO,CORE,CORE+WPFB
1610 * 0
1611 * SELECT
1612 * LOAD
1613 * IO,CORE,CORE+WPFB
1614 * 0
1615 * SELECT
1616 * LOAD
1617 * IO,CORE,CORE+WPFB
1618 * 0
1619 * SELECT
1620 * LOAD
1621 * IO,CORE,CORE+WPFB
1622 * 0
1623 * SELECT
1624 * LOAD
1625 * IO,CORE,CORE+WPFB
1626 * 0
1627 * SELECT
1628 * LOAD
1629 * IO,CORE,CORE+WPFB
1630 * 0
1631 * SELECT
1632 * LOAD
1633 * IO,CORE,CORE+WPFB
1634 * 0
1635 * SELECT
1636 * LOAD
1637 * IO,CORE,CORE+WPFB
1638 * 0
1639 * SELECT
1640 * LOAD
1641 * IO,CORE,CORE+WPFB
1642 * 0
1643 * SELECT
1644 * LOAD
1645 * IO,CORE,CORE+WPFB
1646 * 0
1647 * SELECT
1648 * LOAD
1649 * IO,CORE,CORE+WPFB
1650 * 0
1651 * SELECT
1652 * LOAD
1653 * IO,CORE,CORE+WPFB
1654 * 0
1655 * SELECT
1656 * LOAD
1657 * IO,CORE,CORE+WPFB
1658 * 0
1659 * SELECT
1660 * LOAD
1661 * IO,CORE,CORE+WPFB
1662 * 0
1663 * SELECT
1664 * LOAD
1665 * IO,CORE,CORE+WPFB
1666 * 0
1667 * SELECT
1668 * LOAD
1669 * IO,CORE,CORE+WPFB
1670 * 0
1671 * SELECT
1672 * LOAD
1673 * IO,CORE,CORE+WPFB
1674 * 0
1675 * SELECT
1676 * LOAD
1677 * IO,CORE,CORE+WPFB
1678 * 0
1679 * SELECT
1680 * LOAD
1681 * IO,CORE,CORE+WPFB
1682 * 0
1683 * SELECT
1684 * LOAD
1685 * IO,CORE,CORE+WPFB
1686 * 0
1687 * SELECT
1688 * LOAD
1689 * IO,CORE,CORE+WPFB
1690 * 0
1691 * SELECT
1692 * LOAD
1693 * IO,CORE,CORE+WPFB
1694 * 0
1695 * SELECT
1696 * LOAD
1697 * IO,CORE,CORE+WPFB
1698 * 0
1699 * SELECT
1700 * LOAD
1701 * IO,CORE,CORE+WPFB
1702 * 0
1703 * SELECT
1704 * LOAD
1705 * IO,CORE,CORE+WPFB
1706 * 0
1707 * SELECT
1708 * LOAD
1709 * IO,CORE,CORE+WPFB
1710 * 0
1711 * SELECT
1712 * LOAD
1713 * IO,CORE,CORE+WPFB
1714 * 0
1715 * SELECT
1716 * LOAD
1717 * IO,CORE,CORE+WPFB
1718 * 0
1719 * SELECT
1720 * LOAD
1721 * IO,CORE,CORE+WPFB
1722 * 0
1723 * SELECT
1724 * LOAD
1725 * IO,CORE,CORE+WPFB
1726 * 0
1727 * SELECT
1728 * LOAD
1729 * IO,CORE,CORE+WPFB
1730 * 0
1731 * SELECT
1732 * LOAD
1733 * IO,CORE,CORE+WPFB
1734 * 0
1735 * SELECT
1736 * LOAD
1737 * IO,CORE,CORE+WPFB
1738 * 0
1739 * SELECT
1740 * LOAD
1741 * IO,CORE,CORE+WPFB
1742 * 0
1743 * SELECT
1744 * LOAD
1745 * IO,CORE,CORE+WPFB
1746 * 0
1747 * SELECT
1748 * LOAD
1749 * IO,CORE,CORE+WPFB
1750 * 0
1751 * SELECT
1752 * LOAD
1753 * IO,CORE,CORE+WPFB
1754 * 0
1755 * SELECT
1756 * LOAD
1757 * IO,CORE,CORE+WPFB
1758 * 0
1759 * SELECT
1760 * LOAD
1761 * IO,CORE,CORE+WPFB
1762 * 0
1763 * SELECT
1764 * LOAD
1765 * IO,CORE,CORE+WPFB
1766 * 0
1767 * SELECT
1768 * LOAD
1769 * IO,CORE,CORE+WPFB
1770 * 0
1771 * SELECT
1772 * LOAD
1773 * IO,CORE,CORE+WPFB
1774 * 0
1775 * SELECT
1776 * LOAD
1777 * IO,CORE,CORE+WPFB
1778 * 0
1779 * SELECT
1780 * LOAD
1781 * IO,CORE,CORE+WPFB
1782 * 0
1783 * SELECT
1784 * LOAD
1785 * IO,CORE,CORE+WPFB
1786 * 0
1787 * SELECT
1788 * LOAD
1789 * IO,CORE,CORE+WPFB
1790 * 0
1791 * SELECT
1792 * LOAD
1793 * IO,CORE,CORE+WPFB
1794 * 0
1795 * SELECT
1796 * LOAD
1797 * IO,CORE,CORE+WPFB
1798 * 0
1799 * SELECT
1800 * LOAD
1801 * IO,CORE,CORE+WPFB
1802 * 0
1803 * SELECT
1804 * LOAD
1805 * IO,CORE,CORE+WPFB
1806 * 0
1807 * SELECT
1808 * LOAD
1809 * IO,CORE,CORE+WPFB
1810 * 0
1811 * SELECT
1812 * LOAD
1813 * IO,CORE,CORE+WPFB
1814 * 0
1815 * SELECT
1816 * LOAD
1817 * IO,CORE,CORE+WPFB
1818 * 0
1819 * SELECT
1820 * LOAD
1821 * IO,CORE
```

1005	*	UJP	0,1	
1006	*	RTJ	WAIT	
1007	*	RTJ	LOAD	
1008	*	SEL	42B,SELECT	LOAD THE ADDRESS REGISTER
1009	*	UJP	0,1	SELECT WRITE CHECK
1010	*	ENA,S	0	
1011	*	OUTW	IO,CORE,CORE+WPFB	SELECT PROGRAM STATE ZERO
1012	*	UJP	0,1	
1013	*	RTJ	WAIT	
1014	*	LDI	T1,X1	
1015	*	UJP	WRITEX	
1016	*			
1017	*			
1018	*READX	EQU	*-Z	
1019	*	UJP	IMPURE	
1020	*	RTJ	PRESET	
1021	*RATZ	EQU	*-Z	
1022	*	IOCL	0377B	
1023	*	ENI	RATZ,1	
1024	*	RTJ	CONNECT	
1025	*	RTJ	LOAD	
1026	*	SEL	40B,SELECT	SELECT READ
1027	*	UJP	0,1	
1028	*	ENA,S	0	SELECT PROGRAM STATE ZERO
1029	*	INPW	IO,CORE,CORE+WPFB	
1030	*	UJP	0,1	
1031	*	RTJ	WAIT	
1032	*T1	EQU	*-Z	
1033	*	ENI	IMPURE,X1	
1034	*	UJP	READX	
1035	*	EJECT	*-Z	
1036	*LOAD	EQU	IMPURE	
1037	*	UJP	10B,SELECT	SELECT LOAD ADDRESS
1038	*	SEL	0,1	
1039	*	UJP	0	SELECT PROGRAM STATE ZERO
1040	*	ENA,S	0	
1041	*	OUTW	IO,ADDRESS,ADDRESS+1	
1042	*	UJP	0,1	
1043	*	RTJ	WAIT	
1044	*	UJP	LOAD	
1045	*			
1046	*WAIT	EQU	*-Z	
1047	*	UJP	IMPURE	
1048	*	TIM	22B,0	SET CLOCK TO ZERO
1049	*WAITL	EQU	*-Z	
1050	*	TMA	22B	
1051	*	ASGS	1000	CLOCK TO A
1052	*	EXS	0024B,SENSE	ALLOW ONE SECOND HANG
1053	*	UJP	0,1	SENSE FOR ABNORMAL OR MISCOMPARE
1054	*	EXS	0026B,SENSE	
1055	*	UJP	0,1	SENSE FOR ERRORS OR BUSY
1056	*	EXS	0001B,SENSE	
1057	*	INS	0001B,SENSE	SENSE FOR READY
1058	*	UJP	0,1	SENSE FOR CHANNEL PARITY ERRORS
1059	*	UJP	WAIT	
1060	*			
1061	*CONNECT	EQU	*-Z	
1062	*	UJP	IMPURE	
1063	*CNCODE	EQU	*-Z	
1064	*	VFD	A9/CON,A15/IMPURE	
1065	*	UJP	*-Z-1	
1066	*	UJP	CONNECT	
1067	*			
1068	*PRESET	EQU	*-Z	
1069	*	UJP	IMPURE	
1070	*	STI	T1,X1	
1071	*	SWA	CNCODE	STORE THE CONNECT CODE
1072	*	SHA	12	
1073	*	ACI		
1074	*	SHA	9	
1075	*	TAI	1	
1076	*	ANI	3,1	
1077	*	ENA	0	
1078	*	DVA	FBPC,1	
1079	*	SHQ	15	
1080	*	SHAQ	12	
1081	*	STA	ADDRESS	
1082	*	UJP	PRESET	
1083	*			

1084	*FBPC	EGU	*-Z-1	853/854	*
1085	*	DEC	25	813/814	*
1086	*	DEC	512		*

01263	05263	1089	MZERO	EQU	*-Z
	7777777	1090	VFD		A24/-0,A24/IMPURE
	05265	1091	DISKBPNT	EQU	*-Z
01265	00100000	1092	00		IMPURE,X1
	05266	1093	COREADD	EQU	*-Z
01266	00000000	1094	VFD		A24/IMPURE
	05267	1095	BACKPTR	EQU	*-Z
01267	77777777	1096	VFO		A24/-0
	05270	1097	ENTL	EQU	*-Z
01270	00000000	1098	VFD		A24/IMPURE
	05271	1099	TEMP	EQU	*-Z
01271	00000000	1100	VFD		A24/IMPURE,A24/IMPURE
	05273	1101	TEMPBLK	EQU	*-Z
01273	00000000	1102	VFD		A24/IMPURE
	05274	1103	MZEROADD	EQU	*-Z
01274	00000000	1104	VFD		A24/IMPURE
	05275	1105	D60000	EQU	*-Z
01275	00165140	1106	DEC		60000
	05276	1107	TEN	EQU	*-Z
01276	000000012	1108	DEC		10
	05277	1109	BLKLST	EQU	*-Z
	05277	1110	MXSBLOCK	EQU	*-Z
01277	44675222	1111	BCD		2,MXSBLOCK
	05301	1112	SAVEBBLK	EQU	*-Z
01301	62216525	1113	BCD		2,SAVEBBLK
	05303	1114	SAVEDBLK	EQU	*-Z
01303	62216525	1115	BCD		2,SAVEDBLK
	05305	1116	SECURITY	EQU	*-Z
01305	62252364	1117	BCD		2,SECURITY
	00010	1118	BLKLNTH	EQU	*-Z-BLKLST
		1119			
	05307	1120	LTIME	EQU	*-Z
01307		1121	BSS		1
01310	05310	1122	IOAQ	EQU	*-Z
		1123	BSS		2
	05310	1124	ADDRESS	EQU	IOAQ
	05312	1125	IOX1	EQU	*-Z
01312		1126	BSS		1
01313	05313	1127	IOX2	EQU	*-Z
		1128	BSS		1
		1129			
		1131	*		
		1132	*		END IS LIMITED TO 1 PAGE COUNTING THE #CORE# BUFFER
		1133	*		
		1135	*		
		1136	IF		*-ENDOS3-1 GE 3600B, SOMEBODE BLEW IT
		1137			
	03000 P	1138	CORE	ORGR	30008
03000	07000	1139	EQU		*-Z
		1140	BSS		WPFB
		1141			
		1142	END		

NO LINES WITH ERRORS

ASSEMBLER/OS3 V1.0 09/21/74 2224 PAGE 1 ENDOS3

ASSEMBLER/OS3 V1.0 09/21/74 2224 PAGE 2 ENDOS3

MZERO	05263	1089	705	00754P	726	01000P	742	01016P	772	01050P
MZERUADD	05274	1103	711	00762P	735	01031P				
NBATCHQ	X	31	158	00074P	259	00214P				
NIFWAIT	X	32	120	00036P						
NJH	00011	27	28	00000P						
NODEVICE	04206	243	179	00117P						
NOUSERS	04071	154	98	00013P	104	00021P				
NTFND	04451	440	448	00457P						
NU	00035	65	96	00011P	109	00025P	136	00052P		
OPMSG	X	33	300	00264P	399	00414P				
OPTERM	X	34	117	00034P	525	00544P				
PARITY	05210	847	357	00342P						
PARMESS	24637	831	833	01160P	848	01210P				
PARMESSL	00043	833	849	01211P						
PCERMSG	24512	825	827	01133P	614	00640P				
PCERMSGL	00043	827	615	00641P						
PCK00	04623	598	398	00413P						
PCK01	04625	601	620	00643P						
PCK02	04634	609	604	00627P	611	00635P				
PCK03	04643	619	600	00624P	613	00637P				
PFR	00000	73	567	00572P	708	00757P	769	01045P		
* PFW	00000	74								
PFWORD	00016	39	40	00000P	49	00000P				
POSFND	04457	447	439	00450P						
POSI	00015	38	39	00000P						
PSA	00000	78	101	00016P	102	00017P	111	00027P	115	00032P
			138	00054P	141	00056P	145	00062P	147	00064P
PSABLK	X	35	521	00540P	522	00541P				
PURELIST	XX	36	529	00550P						
PURETABL	X	37								
QEMPTY	00024	55								
QINGLOC	00022	552								
QPNT	00023	554								
READ	X	555								
RPSAPTR	XX	556								
RUNIBIT	X	557								
SAVE01	04270	304	424	00432P	575	00600P	680	00724P	896	01242P
SAVEBBLK	05301	1112	101	00016P	111	00027P	138	00054P		
SAVEDBLK	05303	1114	348	00332P						
SCREAM	X	41	294	00257P						
SCREAMLP	04555	541	542	00555P						
SECMESS	24702	834	550	00565P	197	00132P				
SECMESSL	00062	836	836	01175P						
SECPROB	05213	852	854	01214P	853	01213P				
SECURITY	05305	1116	691	00737P						
* SELECT	00000	70	678	00722P	696	00744P				
* SENSE	00000	71								
SMASH	05262	923	675	00717P	773	01051P	908	01250P		
* STRLLOC	00025	923								
SUB01	04645	623	632	00653P						
SUB02	04651	628	644	00666P						
SUB03	04652	630	638	00661P						
SUB04	04662	639	635	00656P						
SUB05	04667	645	625	00646P						
SUB06	04675	652	650	00704P						
SUB07	04706	662	654	00676P						
SUBMESS	24555	828	830	01147P	843	01205P				
SUBMESSL	00062	830	844	01205P						
SUBPROB	05205	842	663	00706P						
* SUSBIT	X	42								
SYSWCT	00004	64	689	00735P	690	00736P				
TEMP	05271	1099	195	00130P	199	00134P	217	00156P	219	00160P
TEMPBLK	05273	1101	188	00122P	280	00243P	281	00244P	331	00315P
TEN	05276	1107	491	00514P	369	00356P	375	00364P	381	00372P
TERMINAL	X	43	102	00017P	141	00056P			387	00400P
* TFL	00007	97							393	00406P
URBEXIT	00021	51	52	00000P						
URBEXITA	00020	50	51	00000P						
WCTIME	X	44	686	00732P						
WLIM	05251	910	872	01224P	897	01243P				
WPFB	01000	57	1140	03000P	412	00420P	414	00421P	419	00426P
WRITE	X	45	472	00471P	483	00504P	485	00506P	509	00531P
WRITENS	X	46	646	00667P	659	00703P	667	00712P	679	00723P
X1	00001	75	109	00025P	110	00026P	125	00042P	128	00044P
									131	00047P
									136	00052P

