

LENGTH OF PRG 03474

	1	IDENT	BOOT
04000	2	BLOCKBUF	EQU 4000B
00770	3	CON	EQU 770B
00100	4	DEVLIST	EQU 64
00020	5	DNUM	EQU 278-108+1
	6		
00000	7	FDSYM	EQU 0
00002	8	FUACC	EQU 2
00003	9	FDURN	EQU FDACC+1
00004	10	FDATE	EQU 4
00005	11	FDLP	EQU 5
00006	12	FDEPP	EQU 6
00007	13	FDTFL	EQU 7
00010	14	FDCCDATE	EQU 8
00011	15	FDBUSY	EQU 9
00012	16	FDELNTH	EQU 10
	17		
00000	18	IMPURE	EQU 0
00000	19	IO	EQU 0
	20		
00100	21	LABEL	EQU 100B
00000	22	MSLIDENT	EQU 008
00001	23	MSLON	EQU 01B
00002	24	MSLLFBN	EQU 02B
00003	25	MSLHFBN	EQU 03B
00004	26+001	MSLPFBN	EQU 04B
00006	27	MSLBLK	EQU 06B
00007	28	MSLFBPC	EQU 07B
00010	29	MSLFDLOC	EQU 10B
00012	30	MSLFDSSEL	EQU 12B
00014	31	MSLFDHSH	EQU 14B
	32		
00000	33	PFW	EQU 0
00000	34	SELECT	EQU 0
00000	35	SENSE	EQU 0
01000	36	WPFB	EQU 1000B
	37		
00001	38	X1	EQU 1
00002	39	X2	EQU 2
00003	40	X3	EQU 3
00000 P	41	Z	EQU *

LENGTH OF A FILE DIRECTORY ENTRY

LENGTH OF THE DISK LABELS

NUMBER OF PROTECTED BLOCKS

NUMBER OF WORDS IN A FILE BLOCK

00000	01000500	43	UJP	INIT	
	00001	44	EQU	*-Z	
	00004	45	NAME	EQU,C	
00001	62706263	46	NAMEC	BCD	
	00003	47	MXSPTR	EQU	
00003	00001474	48	DISK	00	
	00004	49	DISK	EQU	
00004	24316242	50	BIT23	BCD	
	00005	51	BIT23	EQU	
00005	400000000	52	SYSLIB	OCT	
	00006	53	SYSLIB	EQU	
00006	62706243	54	MPARITY	BCD	
	000040	55	MPARITY	EQU,C	
00010	77442544	56	WC	BCD	
	00015	57	WC	EQU	
00015	00001000	58	PERSIST	VFD	
	00016	59	PERSIST	EQU	
00016	00001747	60	IR	DEC	
	00017	61	IR	EQU	
00017	00000017	62	HLT	HLT	
		63	IF	*-Z-20B NE 0, SOMEBODY BLEW IT	
00020	00000000	64	VFD	09/000,A15/IMPURE	
00021	140000000	65	NOP	IMPURE	
00022	110000040	00010 0	66	ECHA	MPARITY
00023	14700064	67	VFD	09/147,C15/MPARITY+20 ENQ	
00024	00700361	68	RTJ	OUT	
00025	00000025	69	HLT	*-Z	
		70	TEN	EQU	
00026	00000012	71	TEN	DEC	
		72		10	
		73			
		74			
00027	00000010	75	SECPFB	EQU	
00030	00000010	76		*-Z	
00031	00000004	77		DEC	
		78		8	
		79		DEC	
		80		8	
00032	00000240	81	SECPCYL	EQU	
00033	00010000	82		*-Z	
00034	00000430	83		DEC	
				10*16	
				853/854	
				128*32	
				813/814	
				20*14	
				841	

00035	00035	01000000
00036	14700074	
00037	00700120	
00040	77100040	
00041	01000230	
00042	00700176	
00043	00700250	
00044	01000035	

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36   ****
87   * ROUTINE TO READ A FILE BLOCK FROM THE DISKS
88   * CALL WITH FILE BLOCK NUMBER IN A AND CORE ADDRESS IN INDEX 1
89   *
91   READ    EQU    *-Z
92   UJP    IMPURE
93   ENQ    74B
94   RTJ    PRESET
95   SEL    40B,SELECT
96   UJP    ERROR
97   RTJ    IOX
98   RTJ    COMPLAIN
99   UJP    READ
100
101
103
104   * ROUTINE TO WRITE A FILE BLOCK ONTO THE DISKS
105   * CALL WITH FILE BLOCK NUMBER IN A AND CORE ADDRESS IN INDEX 1
106
108
109   WRITE   EQU    *-Z
110   UJP    IMPURE
111   ENQ    76B
112   RTJ    PRESET
113   SEL    41B,SELECT
114   UJP    ERROR
115   RTJ    IOX
116   RTJ    LOAD
117   SEL    42B,SELECT
118   UJP    ERROR
119   RTJ    IOX
120   RTJ    COMPLAIN
121   UJP    WRITE

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OPERATION CODE FOR INPW  
INITIALIZE THINGS FOR THE I/O  
SELECT READ  
READ THE BLOCK  
COMPLAIN ABOUT THE HARDWARE  
DONE AT LAST

OPERATION CODE FOR OUTW  
INITIALIZE THINGS FOR THE I/O  
SELECT WRITE  
WRITE THE BUFFER OUT  
LOAD THE ADDRESS REGISTER AGAIN  
SELECT WRITE CHECK  
PERFORM A WRITE CHECK  
COMPLAIN ABOUT THE HARDWARE  
AND EXIT

00061	00061	123	PRESETX	EQU	*-Z	
00062	31201237	124	SBA	DEVBBLK,X2	SUBTRACT THE LOW FILE BLOCK	
00063	03300145	125	AZJ,LT	PANICZ	JUMP IF ILLEGAL ADDRESS	
00064	46000076	126	SCHA	ADDSAVE	SAVE THE RELATIVE BLOCK NUMBER	
00065	20201238	127	LDA	DEVBLUN,X2	LOAD THE CONNECT CODE	
00066	03200145	128	AZJ,GE	PANICZ	JUMP IF NOT ON LINE	
00067	44000225	129	SWA	CNCODE		
00068	12000014	130	SHA	12		
00069	77540000	131	ACI		LOAD THE CHANNEL INDEX REGISTER	
00070		132	TAI	1		
00071	53500000	133	ANI	7,1		
00072	17100007	134	SHA	-18	GET THE NUMBER OF CYLINDERS CODE	
00073	12077755	135	TAI	2		
00074	53600000	136	ANI	3,2		
00075	17200003	137	ADDSAVE	EQU	*-Z	
00076	11000000	138	ECHA	IMPURE	ENTER RELATIVE BLOCK NUMBER	
00077	50200027	139	MUA	SECPFB,X2	CONVERT TO SECTOR NUMBER	
00100	13000030	140	SHAQ	24		
00101	400001235	141	STA	ERRORS		
00102	51200032	142	DVA	SECPCYL,X2	CONVERT TO DISK ADDRESS	
00103	12400014	143	SHQ	12		
00104	13000014	144	SHAQ	12		
00105	400001464	145	STA	ADDRESS		
00106	20000015	146	LDA	WC	LOAD THE BUFFER LENGTH	
00107	30000201	147	ADA	FWA	CALCULATE FWA+1	
00110	44000200	148	SWA	LWA	INITIALIZE THE I/O COMMAND	
00111	14600001	149	ENA	1	CREATE A ONE BIT CHANNEL MASK	
00112	12100000	150	SHA	0,1	BY SHIFTING INTO POSITION	
00113	16610000	151	XGA	10000B	IOCL IS A 7751XXXX	
00114	44000115	152	SWA	*-Z+1		
00115	77510000	153	IOCL	IMPURE		
00116	14100115	154	ENI	*-Z-1,X1	ENTER THE ABNORMAL EXIT ADDRESS	
00117	00700223	155	RTJ	CONNECT		
00120	01000000	156	PRESET	EQU	*-Z	
00121	400001230	157	UJP	IMPURE,		
00122	430001000	158	STA	BLKTEMP		
00123	002000 0	159	SQCH	IOP	INITIALIZE THE I/O COMMAND	
00124	47100201	160	STI	FWA,X1		
00125	47200247	161	STI	X2TEMP,X2	SAVE INDEX 2	
00126	03300152	162	AZJ,LT	PANICX	INITIALIZE THE ERROR MESSAGE	
00127	14700067	163	ENQ	67B		
00128	430001636	00347 2	SQCH	WHEREUNT		
00129	430001637	00347 3	SQCH	WHEREUNT+1		
00131	14577777	164	ENQ,S	77777B	SEARCH FOR SUBSTITUTIONS	
00132	14101000	165	ENI	WPFB,1		
00133	06201474	166	MEQ	MXSLIST,2		
00134	01000137	167	UJP	*-Z+3	MAKE THE SUBSTITUTION	
00135	20101475	168	LDA	MXSLIST+1,1	FORGET ZERO TO ZERO SUBSTITUTIONS	
00136	03100132	169	AZJ,NE	*-Z-4		
00137	14200000	170	ENI	0,2		
00140	21201241	171	LOQ	DEVBLK+2,2		
00141	03700061	172	AQJ,LT	PRESETX		
00142	15200002	173	INI	2,X2	SKIP IF DONE	
00143	052000176	174	ISG	2*(DEVLIST-1),X2		
00144	010000140	175	UJP	*-Z-4		
00145	00145	176	EQU	*-Z		
00146	53200000	177	PANICZ	TIA	UNIT NUMBER TO A	
00147	13077746	178	SHAQ	X2		
00148	51000026	179	DVA	-24-1	IT SHOULD BE THE UNIT NUMBER	
00150	420001636	00347 2	SACH	TEN	ALTHO IT MAY NOT BE	
00151	430001637	00347 3	SQCH	WHEREUNT		
00152	00152	180	PANICX	WHEREUNT+1		
00153	20001230	181	EQU	*-Z		
00154	14177770	182	LDA	BLKTEMP	LOAD THE BLOCK NUMBER WE WANTED	
00155	14700000	183	ENI	-7,X1		
00156	13000003	184	ENQ	0		
00157	434001665	00355 1	SHAQ	3		
00158	02100154	185	SQCH	WHEREBLK+7,X1		
00159	11001600	186	IJI	*-Z-3,X1		
00160	14701667	187	WHEREMES	WHEREMES		
00161	00700361	188	ECHA	09/147,C15/WHEREMES+WHERMESL		
00162	54200247	189	VFD	OUT		
00163	01000017	190	RTJ	LDI		
00164	01000017	191	UJP	X2TEMP,2		
00165	00165	192	IR			
00166	01000000	193				
00167	77100010	194				
00168	01000230	195				
00169		196				
00170		197				
00171		198	LOAD	EQU	*-Z	
00172		199	UJP	IMPURE		
00173		200	SEL	10B,SELECT	SELECT LOAD ADDRESS	
00174		201	UJP	ERROR		

00170	14600000	202		ENA	0	FOR RELOCATION
00171	76001465	203		OUTW	IO, ADDRESS, ADDRESS+1	
00172	00001464	204		UJP	ERROR	
00173	01000230	205		RTJ	WAIT	
00174	00700205	206		UJP	LOAD	
00175	01000165	207				RETURN
00176	00176	208	I0X	EQU	*-Z	
00177	01000000	209		UJP	IMPURE	
	14600000	210		ENA	0	FOR RELOCATION
	01000	211	IOP	EQU, C	*-Z	
	00200	212	LWA	EQU	*-Z	
	00201	213	FWA	EQU	LWA+1	
00200	74000000	214		INPW	IO, IMPURE, IMPURE	MAY BE CHANGED TO OUTW
00201	00000000			UJP	ERROR	
00202	01000230	215		RTJ	WAIT	BLOCK CONTROL REJECT
00203	00700205	216		UJP	IOX	WAIT FOR COMPLETION
00204	01000176	217				RETURN
	00205	218	WAIT	EQU	*-Z	
00205	01000000	219		UJP	IMPURE	
00206	77200001	220		EXS	0001B, SENSE	
00207	77200024	221		EXS	0024B, SENSE	SENSE FOR ERRORS
00210	01000230	222		UJP	ERROR	
00211	77200026	223		EXS	0026B, SENSE	SENSE FOR BUSY OR ERRORS
00212	01000208	224		UJP	*-Z-4	WAIT FOR COMPLETION
00213	77200001	225		EXS	0001B, SENSE	SKIP IF NOT READY
00214	77300037	226		INS	0037B, SENSE	SENSE FOR ERRORS
00215	01000230	227		UJP	ERROR	
00216	77200200	228		EXS	0200B, SENSE	SENSE FOR POSITIONER READY
00217	77200024	229		UJP	0024B, SENSE	SENSE FOR ERRORS
00220	01000230	230		UJP	ERROR	
00221	01000205	231		UJP	WAIT	RETURN
	00222	232				
00222	00700165	233	CONNECTX	EQU	*-Z	
	00223	234		RTJ	LOAD	
00223	01000000	235	CONNECT	EQU	*-Z	
00224	14200024	236		UJP	IMPURE	
	00225	237		ENI	20, X2	
00225	77000000	238	CNCODE	EQU	*-Z	
00226	02600225	239		VFD	A9/CON, A15/IMPURE	CONNECT
00227	02600222	240		IJD	*-Z-1, X2	
	00230	241		IJD	CONNECTX, X2	
00230	14600000	242	ERROR	EQU	*-Z	
00231	77200000	243		ENA	0	
00232	44000278	244		COPY	SENSE	
00233	20001235	245		SWA	ESTATUS	
00234	77200001	246		LDA	ERRORS	
00235	77300030	247		EXS	0001B, SENSE	SKIP IF NOT READY
00236	05400001	248		INS	0030B, SENSE	SENSE FOR REJECTS
00237	15600001	249		ASG, S	1	ONLY REMEMBER 1 REJECT
00240	40001235	250		INA	1	
00241	21000016	251		STA	ERRORS	
00242	03600245	252		LUQ	PERSIST	
00243	05601747	253		AQJ, GE	*-Z+3	
00244	01100000	254		ASG	999	
00245	00700250	255		UJP	0, 1	
00246	01000017	256		RTJ	COMPLAIN	
	00247	257		UJP	IR	
	00250	258				
00247	14200000	259	X2TEMP	EQU	*-Z	
	00250	260		ENI	IMPURE, X2	
	00251	261	COMPLAIN	EQU	*-Z	RESTORE INDEX 2
00251	20001235	262		UJP	IMPURE	
00252	03000247	263		LOA	ERRORS	
00253	77600400	264		AZJ, EQ	X2TEMP	
00254	01000253	265+001		PAUS	0400B+SENSE	SENSE FOR TYPEWRITER BUSY
00255	14100002	266		UJP	*-Z-1	WAIT FOR IT
00256	13077747	267		ENI	2, 1	
00257	51000026	268		ENI	-24	
00260	43401503	269		SHAQ	TEN	
00261	02500256	270		DVA	DKMSGEC, 1	
00262	20001464	271		SQCH	*-Z-3, 1	
00263	14177770	272		IJD	ADDRESS	
00264	14700000	273		LDA		LOAD THE DISK ADDRESS
00265	13000003	274		ENI	-7, 1	
00266	43401534	275		ENQ	0	
00267	02100264	276		SHAQ	3	
	00320 3	277		SQCH	DKMSGADR+10, 1	
	00327 0	278		IJI	*-Z-3, 1	

00270	200001230	279	LDA	BLKTEMP	LOAD THE FILE BLOCK NUMBER
00271	14177770	280	ENI	-7,X1	
00272	14700000	281	ENQ	0	
00273	13000003	282	SHAQ	3	
00274	43401571	00336 1	SQCH	DKMBLK+7,X1	STORE THE BLOCK NUMBER IN THE
00275	02100272	283	IJI	*-Z-3,X1	MESSAGE
00276	00276	284	ESTATUS	EQU	
00277	14600000	285	ENQ	IMPURE	
00278	12000014	286	ENQ	12	
00300	14177774	287	SHA	-3,1	
00301	14700000	288	ENI	0	
00302	13000003	289	ENQ	3	
00303	43401543	00330 3	SHAQ	DKMSGEXS+6,1	
00304	02100301	290	SQCH	*-Z-3,1	
00305	20000225	291	IJI	CNCODE	LOAD THE CONNECT CODE
00306	17600007	292	LDA	7	
00307	42001552	00332 2	ANA	DKMSGDRV+6	
00310	110001502	293	SACH	DKMSG	
00311	14701572	294	ECHA	09/147,015/DKMSG+DKLNTH THIS IS AN ENQ	
00312	00700361	295	VFD	OUT	
00313	01000247	296	RTJ	X2TEMP	
	01460	297	UJP	*-Z	
00314	77472123	299+001	PKMS	/^PACK IDENT\$/	
	00317	299+002	TEXT,C	*-Z	
00317	60606060	299+003	IDENT	EQU	4,
00320	77770000	299+004	BCD,C	/^-^/	
	01502	299+005	TEXT,C	*-Z	
	01502	299+006	PKMSL	EQU,C	
00320	77777700	300	DKMSG	EQU,C	
	01503	301	DKMSGEC	BCD,C	
00320	77777767	302	DKMSGADR	EQU,C	
	01522	303	DKMSGEXS	BCD,C	
00324	51626021	304	DKMSGDRV	EQU,C	
	01535	305	DKMBLK	BCD,C	
00327	67606213	306	DKLNTH	EQU,C	
	01544	307	NAMEREQ	BCD,C	
00331	60644531	308	WHEREMES	EQU,C	
00332	63606760	309	WHEREUNT	BCD,C	
	01562	310	WHEREBLK	EQU,C	
00334	42606767	311	WHERMESL	BCD,C	
	00070	312	BADMESS	EQU,C	
	01572	313	BADMESSL	BCD,C	
00336	67677745	314	OUT	EQU	
	01600	315	OUT	UJP	
00340	77663025	316	IMPURE	0400B+SENSE	SENSE FOR TYPEWRITER BUSY
	01638	317	PAUS	*-Z-1	WAIT FOR IT
00347	25606767	318	TAM	238	SET THE FIRST CHARACTER ADDRESS
	01656	319	TQM	338	SET THE LAST CHARACTER ADDRESS
00353	51606767	320	OTO	OUT	
	00067	321			
	01667	322			
00355	67677777	323			
	00014	324			
00360	00361	325			
		326			
00361	01000000	327			
00362	77600400	328+001			
00363	01000362	330			
00364	53420023	331			
00365	53410033	332			
00366	77760000	333			
00367	01000361	334			

00370	00370	336	RDLBLSY	EQU	*-Z
00371	53020022	337	IMA	22B	
00372	53010022	338	TMQ	22B	
00373	03400371	339	AQJ,EQ	*-Z-1	WAIT FOR 1 MILLISECOND
00374	02500432	340	IJD	RDLBLWT,1	
00375	00374	341	RDLABELX	EQU	*-Z
00376	14600000	342	RDLABELQ	EQU	0
00377	00375	343	RDLABEL	LDD	*-Z
00378	21000317	344		EQU	IDENT
00379	00376	345		UJP	IMPURE
00380	01000000	346		SWA	RDLBLCON
00381	44000413	347		LACH	RDLBLCHN
00400	22002055	00413 1	348	ACI	
00401	77540000	349		TAI	1
00402	53500000	350		ENA	1
00403	14500001	351		SHA	0,1
00404	12100000	352		XOA	10000B
00405	16610000	353		SWA	RDLBLOVR
00406	44000410	354		ENA	4
00407	14600004	355	RDLBLOVR	EQU	*-Z
00410	00410	356		IOCL	IMPURE
00411	77510000	357		SWA	RDLBLAGN
00412	44000450	358		ENI	500,1
00413	14100764	359	RDLBLCON	EQU	*-Z
00414	00413	360	RDLBLCHN	EQU,C	*-Z+1
00415	02055	361	VFD	A97CON,A15/IMPURE	
00416	77000000	362	IJD	*-Z-1,1	
00417	02500413	363	ISG	1,1	
00418	05100001	364	UJP	RDLABELX	
00419	01000374	365		ENA	0
00420	14600000	366		STA	ADDRESS
00421	40001464	367		ERRORS	
00422	40001235	368		RDLBLAGN,1	ENTER THE ABNORMAL ADDRESS
00423	14100450	369		RTJ	LOAD THE ADDRESS REGISTER
00424	00700165	370		SEL	READ
00425	77100040	371		UJP	RDLBLAGN
00426	01000450	372		INPW	IO,BUFFER,BUFFER+LABEL
00427	74002574	373			RDLBLAGN
00428	00002474	374		1000,1	
00429	01000450	375		ENI	
00430	14101750	376	RDLBLWT	EQU	*-Z
00431	00432	377		EXS	DISK DRIVE BUSY
00432	77200002	378		UJP	RDLBLBSY
00433	01000370	379		INS	0001B,SENSE
00434	77300001	380		UJP	RDLBLAGN
00435	01000450	381		EXS	0004B,SENSE
00436	77200004	382		UJP	RDLBLAGN
00437	01000450	383		ENI	LABEL-1,1
00438	14100077	384		ENA,S	777778
00439	14477777	385		SCA	BUFFER,X1
00440	36102474	386		IJD	*-Z-1,1
00441	02500442	387		AZJ,NE	RDLBLAGN
00442	03100450	388		AZJ,LT	RDLBLAGN
00443	03300450	389		LOA	BUFFER+MSLIDEN
00444	20002474	390		UJP	LOAD THE IDENTIFIER
00445	01000375	391	RDLBLAGN	EQU	*-Z
00446	00450	392		ENA	IMPURE
00447	14600000	393		INA,S	-1
00448	15477776	394		AZJ,GE	RDLBLOVR
00449	03200410	395		UJP	RDLABELX
00450	01000374	396	SYSLIBX	EQU	*-Z
00451	00454	397		SJ3	SYSLIB01
00452	00301125	398	ACCEPT	EQU	*-Z
00453	00455	399		BLANKS	IF JUMP KEY SIX IS SET, READ IN
00454	25000476	400		NAME	THE NAME OF THE FILE FROM THE
00455	45000001	401		NAMEREQ	CONSOLE TYPEWRITER
00456	11001572	00336 2	402	ECHA	09/147,C15/NAMEREQ+6 ENQ
00457	14701600	403	VFO	OUT	
00458	00700361	404+001	RTJ	PAUS	SENSE FOR TYPEWRITER BUSY
00459	77600400	405		*-Z-1	WAIT FOR IT TO FINISH
00460	01000462	406		UJP	NAMEC
00461	11000004	407		TAM	23B
00462	53420023	408		ECHA	NAMEC+8
00463	11000014	409		TAM	33B
00464	53420033	410		CTI	ASK FOR A NAME
00465	77750000	410+001		PAUS	SENSE FOR TYPEWRITER BUSY
00466	77600400	412		UJP	*-Z-1 WAIT FOR THE OPERATOR
00467	01000471	412+001		PAUS	2000B+SENSE SKIP IF REPEAT
00468	77602000				

00474	01000675	414		UJP	CONVERT	
00475	01000455	415		UJP	ACCEPT	GIVE THE OPERATOR A SECOND CHANCE
	00476	416	BLANKS	EQU	*-Z	
00476	60606060	417		BCD	2,	
	00500	418	INIT	EQU	*-Z	
00500	14102243	419		ENI	SCRATCHL-1,X1	ZERO OUT ALL THE TABLES
00501	14700000	420		ENQ	0	
00502	41101230	421		STQ	SCRATCH,X1	
00503	02500502	422		IJD	*-Z-1,X1	
00504	44000545	423		SWA	DISK000	SAVE THE CONNECT CODE FOR THE
		424	*			DISK THAT THIS PROGRAM CAME FROM
00505	00700376	425		RTJ	ROLABEL	READ IN ITS LABEL
00506	03000644	426		AZJ,EQ	BADLABEL	JUMP IF NOT A LABEL
00507	40000317	427		STA	IDENT	AND STORE THE IDENTIFIER FROM IT
		428				
00510	14200157	429		ENI	177B-20B,X2	INITIALIZE STATES 1-7 TO
00511	14600774	430		ENA	0774B	NON-EXISTANT MEMORY
00512	77644020	431		APF	PFW+20B,X2	
00513	02600512	432		IJD	*-Z-1,X2	
		433				
00514	14200017	434		ENI	17B,X2	INITIALIZE STATE ZERO TO POINT
00515	14600074	435		ENA	0074B	PHYSICAL STATE ZERO
00516	77644000	436		APF	PFW,X2	
00517	15477773	437		INA,S	-4	
00520	02600516	438		IJD	*-Z-2,X2	
		439				
00521	20002503	440		LDA	BUFFER+MSLFBPC	LOAD DEVICE CODE
00522	17600700	441		ANA	00700B	
00523	12077771	442		SHA	-6	
00524	53600000	443		TAI	X2	DEVICE CODE TO X2
00525	20200027	444		LDA	SECPFB,X2	COMPUTE ADDRESS OF THIRD BLOCK ON
00526	30200027	445		ADA	SECPFB,X2	THE DEVICE
00527	40001464	446		STA	ADDRESS	
00530	14600000	447		ENA	0	
00531	40001235	448		STA	ERRORS	
00532	14200011	449		ENI	9,X2	TRY A FEW TIMES
00533	14100536	450		ENI	GLERCH,X1	ENTER ABNORMAL RETURN ADDRESS
00534	00700165	451		RTJ	LOAD	SEEK THE DEVICE
00535	77100040	452		SEL	0040B,SELECT	SELECT READ
	00536	453	GLERCH	EQU	*-Z	
00536	02600533	454		IJD	*-Z-3,X2	TRY AGAIN
00537	05200001	455		ISG	1,X2	SKIP IF OK
00540	00000540	456		HLT	*-Z	
00541	74001230	457		INPW	10,1000B,SCRATCH	READ IN THE SECOND BLOCK
00542	00001000	458		HLT	*-Z-2	
00543	00000541	459		RTJ	WAIT	WAIT FOR COMPLETION
00544	00700205	460				
		461				
00545	00545	462	DISK000	EQU	*-Z	
00545	14600000	463		ENA	IMPURE	ENTER CONNECT OF AUTOLOAD DISK
00546	00700563	464		RTJ	DKSCANX	HOW MANY UNITS ARE OUT THERE
		465				
	00547	466				
00547	14600000	467	BLOCKLOC	EQU	*-Z	
00550	14104000	468		ENA	IMPURE	ENTER THE ADDRESS OF BLOCKS
00551	00700035	469		ENI	BLOCKBUF,X1	
00552	14100776	470		RTJ	READ	READ THE BLOCK DIRECTORY
00553	20000004	471		ENI	WPFB-2,X1	LOOK FOR OTHER DISK CONTROLLERS
00554	14577777	472		LDA	DISK	
00555	06304000	473		ENG,S	77777B	
00555	01000650	474		MEQ	BLOCKBUF,3	
00556	01000650	475		UJP	MXKK	JUMP IF ALL DONE
00557	20104002	476		LDA	BLOCKBUF+2,X1	LOAD THE CONNECT CODE
00560	00700563	477		RTJ	DKSCANX	
00561	01000553	478		UJP	*-Z-6	KEEP LOOKING
		479				
	00562	480	DKSCANX1	EQU	*-Z	
00562	14100000	481		ENI	IMPURE,X1	RESTORE X1
	00563	482	DKSCANX	EQU	*-Z	
00563	01000000	483		UJP	IMPURE	
00564	47100562	484		STI	OKSCANX1,X1	SAVE X1
00565	17677000	485		ANA	77000B	SAVE THE CHANNEL AND EQUIPMENT
00566	15600007	486		INA	7B	
00567	14300017	487		ENI	OKNUM-1,3	
	00570	488	DKSCAN	EQU	*-Z	
00570	15600001	489		INA	1	TRY THE NEXT CONNECT CODE
00571	44000602	490		SWA	CONSANE	SAVE THE CONNECT CODE
00572	00700376	491		RTJ	RDLABEL	

00573	03500640		492		AQJ,NE	UKLLOOP	LOAD THE DEVICE NUMBER
00574	20002475		493		LDA	BUFFER+MSLDN	IS THE NUMBER WITHIN RANGE
00575	05400100		494		ASG,S	DEVLIST	
00576	05400000		495		ASG,S	0	
00577	01000640		496		UJP	DKLCOP	IGNORE THE PACK
00600	53600000		497		TAI	X2	DEVICE NUMBER TO X2
00601	53640000		498		IAI	X2	TWO TIMES DEVICE NUMBER
	00602		499	CONSAVE	EQU	*-Z	
00602	14600000		500		ENA	IMPURE	ENTER THE CONNECT CODE
00603	35000005		501		SSA	BIT23	SET THE DEFINED BIT
00604	35002503		502		SSA	BUFFER+MSLFBPC	SET IN THE CYLINDER CODE
00605	21201236		503		LDQ	DEVLUN,X2	HAS THE DEVICE BEEN PREVIOUSLY
00606	04500000		504		QSE,S	0	DEFINED
00607	03500644		505		AQJ,NE	BADLABEL	
00610	40201236		506		STA	DEVLUN,X2	SAVE THE CONNECT CODE
00611	21002477		507		LDQ	BUFFER+MSLHFBN	LOAD THE HIGH FILE BLOCK NUMBER
00612	15700001		508		INQ	1	
00613	20201241		509		LDA	DEVBLK+2,X2	LOAD THE HIGH FILE BLOCK NUMBER
00614	41201241		510		STQ	DEVBLK+2,X2	IF IT IS DEFINED
00615	04400000		511		ASE,S	0	
00616	03500644		512		AQJ,NE	BADLABEL	
00617	20002476		513		LDA	BUFFER+MSLLFBN	LOAD THE LOW FILE BLOCK NUMBER
00620	21201237		514		LDQ	DEVBLK,X2	IS THE VALUE KNOWN
00621	40201237		515		STA	DEVBLK,X2	SAVE THE LOW BLOCK NUMBER
00622	04500000		516		QSE,S	0	
00623	03500644		517		AQJ,NE	BADLABEL	
00624	02600640		518		IJD	DKLLOOP,X2	JUMP IF NOT DEVICE ZERO
00625	30002502		519		ADA	BUFFER+MSLBLK	COMPUTE THE ADDRESS OF BLOCKS
00626	440000547		520		SWA	BLOCKLOC	AND SAVE IT
00627	25002504		521		LDAQ	BUFFER+MSLFLOC	LOAD THE FILE DIRECTORY
00630	45001231		522		STAQ	FILEDIR	INFORMATION AND SAVE IT
00631	25002506		523		LDAQ	BUFFER+MSLFOSEL	LOAD THE FILE DIRECTORY SCATTER
00632	45000765		524		STAQ	FOSELECT	FUNCTION INSTRUCTIONS
00633	20002510		525		LDA	BUFFER+MSLFDHSH	LOAD THE FILE DIRECTORY SCATTER
00634	40001233		526		STA	HASH	CONSTANT AND SAVE IT
00635	20002500		526+001		LDA	BUFFER+MSLPFBN	GET NUMB OF PROTECTED BLOCKS
00636	30002476		526+002		ADA	BUFFER+MSLLFBN	ADD LOW FB NUMBER
00637	40001234		526+003		STA	HPFB	SAVE.
	00640		527	DKLOOP	EQU	*-Z	
00640	20000602		528		LDA	CONSAVE	
00641	02700570		529		IJD	DKSCAN,3	SCAN ALL THE DISKS
00642	77510377		530		IOCL	377B	TURN OFF ANY REJECT LITES
00643	01000562		531		UJP	DKSCANX1	
	00644	11001667	00355 3		532		
00644	11001667	00355 3	533		BADLABEL	EQU	*-Z
00645	14701703		534		ECHA	BADMESS	
00646	00700361		535		VFD	09/147,C15/BADMESS+BADMESSL	
00647	00000647		536		RTJ	OUT	
	00650	14300000	537		HLT	*-Z	
	00651	14200000	538				
00651	14200000		539				
	00652	25204000	540				
00652	25204000		541		MXKK	EQU	*-Z
	00653	33301216	542		ENI	0,X3	
00653	33301216		543		MXK	EQU	*-Z
	00654	13400000	544		ENI	0,X2	
00654	13400000		545		MXL	EQU	*-Z
	00655	03000662	546		LDAQ	BLOCKBUF,X2	START AT THE FRONT OF THE BLOCK
00655	03000662		547		SBAQ	BLKLST,X3	PROCESS THE SYMBOL LIST
	00656	15200003	548		SCAQ		
00656	15200003		549		AZJ,EQ	MXZ	
	00657	05200776	550		INI	3,X2	
00657	05200776		551		ISG	WPFB-2,X2	
	00660	01000652	552		UJP	MXL	
00660	01000652		553		HLT	*-Z	
	00661	00000661	554		HXZ	EQU	
00661	00000661		555		LOA	BLOCKBUF+2,X2	
	00662	20204002	556		STA	BLKLST,X3	
00662	20204002		557		INI	2,X3	
	00663	40301216	558		ISG	BLKLNTH,X3	
00663	40301216		559		UJP	MXK	
	00664	15300002	560				
00664	15300002		561		ENI	MXSLIST,X1	VALUE OF MXSLIST IS NOW IN A
	00665	05300012	562		RTJ	READ	READ IN THE SUBSTITUTION LIST
00665	05300012		563				
	00666	01000651	563+001		ECHA	PKMS	
00666	01000651		563+002		VFD	09/147,C15/PKMSL	
	00667	14101474	563+003		RTJ	OUT	
00667	00700035		564		SJ6	ACCEPT	ENQ
	00671	11001460	00314 0				JUMP IF OPERATOR CONTROL
00672	14701502						
00673	00700361						
00674	00600455						

00675	00675	565	CONVERT	EQU	*-Z	
00676	25000001	566	LDAQ	NAME		
00676	33000000	567	SBAQ	SYSLIB		
00677	13400000	568	SCAQ			
00700	03000454	569	AZJ,EQ	SYSLIBX	JUMP IF SYSLIB OPERATION	
00701	14701000	569+001	ENQ	WPFB		
00702	41000015	569+002	STQ	WC		
00703	20001222	569+003	LDA	COMMANDS	GET ADDRESS OF COMMANDS BLOCK	
00704	14102474	569+004	ENI	BUFFER,X1		
00705	00700035	569+005	RTJ	READ	READ IN SPECIAL COMMANDS	
00706	14101000	569+006	ENI	WPFB,X1		
00707	47101043	569+007	STI	TRAFLAG,X1		
	00710	569+008	EQU	*-Z	SET NOT SPECIAL FLAG	
00710	14577777	569+009	ENQ,S	77777B		
00711	20000001	569+010	LDA	NAME		
00712	06502474	569+011	MEQ	BUFFER,5	LOOK FOR NAME IN LIST	
00713	01000761	569+012	UJP	SEARCHFD	NOT FOUND, TRY OVERLAY	
00714	21000002	569+013	LDQ	NAME+1	GET 2ND HALF OF NAME	
00715	20102475	569+014	LDA	BUFFER+1,X1	TO COMPARE WITH COMMAND	
00716	03500713	569+015	AQJ,NE	SRCHLP	JUMP IF NOT THE SAME	
00717	20102500	569+016	LDA	BUFFER+4,X1	GET TRANSFER ADDRESS	
00720	44001103	569+017	SWA	TRA	AND SAVE IT	
00721	25102476	569+018	LDAQ	BUFFER+2,X1	GET CONTROL WORDS	
00722	45000001	569+019	STAQ	NAME	(SAVE THEM)	
00723	47001043	569+020	STI	TRAFLAG,0	SET SPECIAL COMMAND FLAG	
00724	03300761	569+021	AZJ,LT	SEARCHFD	JUMP IF OVERLAY NAME	
00725	21001234	569+022	LUQ	HPFB	GET LAST BLOCK ON LIBRARY+1	
00726	03600761	569+023	AQJ,GE	SEARCHFD	JUMP IF OVERLAY NAME	
00727	20000002	569+024	LDA	NAME+1	GET BIT MAP OF PAGES	
00730	03001033	569+025	AZJ,EQ	ZAP	JUMP IF BAD BIT MAP	
	*	569+026	PAGELP	EQU	*-Z	
00731	00731	569+027	ENA	0		
00732	14600000	569+028	LDQ	NAME+1	GET CURRENT BIT MAP	
00733	21000002	569+029	SCAQ	46,X1	COUNT CURRENT PAGE NUMBER	
00733	13500056	569+030	AZJ,EQ	SYSFLAGX	CALL ROUTINE IF DONE	
00734	03001074	569+031	SHAQ	1	ARRANGE TO	
00735	13800001	569+032	SCA	BIT23	TURN OFF THE BIT	
00736	36000005	569+033	SHAQ	1,X1	RESTORE Q (ONE BIT LESS)	
00737	13100001	569+034	XOI	77777B,X1	NEGATE BIT NUMBER	
00740	16177777	569+035	ISG	-14,X1	SKIP IF OK	
00741	05177761	569+036	HLT	*-Z		
00742	00000742	569+037	STQ	NAME+1	SAVE NEXT BIT MAP	
00743	41000002	569+038	ENA	15	NUMBER OF PAGES/BANK-1	
00744	14600017	569+039	X1	X1	COMPUTE PAGE NO. TO READ	
00745	53140000	569+040	AIA	11	CONVERT TO CORE ADDRESS	
00746	12000013	569+041	SHA	X1		
00747	53500000	569+042	TAI	4*WPFB	NUMBER OF WORDS/PAGE	
00750	14704000	569+043	ENQ	WC	WORD COUNT FOR READ	
00751	41000015	569+044	STQ	NAME	GET PAGE ADDRESS	
00752	20000001	569+045	LDA	READ	READ PAGE	
00753	00700035	569+046	RTJ	ENQ		
00754	14701000	569+047	WPFB	4	NUMBER OF FILE BLOCKS/PAGE	
00755	41000015	569+048	STQ	WC	INCREMENT PAGE ADDRESS	
00756	14600004	569+049	ENA	NAME		
00757	34000001	569+050	RAD	PAGELP	LOOP TILL DONE	
00760	01000731	569+051	UJP			
	00761	569+052	SEARCHFD	EQU	*-Z	
00761	00761	570	SEARCH	EQU	*-Z	
00761	25000001	571	LDAQ	NAME		
	*	572	*	*	THIS IS THE SCATTER FUNCTION FOR THE FILE DIRECTORY	
00762	53040000	573	*	*		
00763	50001233	574	*	*		
00764	53040000	575	FDSELECT	AQA	HASH	
	00765	576		MUA		
00765	00000765	577		AQA		
	00767	578	FDREAD	EQU	*-Z	
00767	14701000	579		WPFB	SET THE BUFFER LENGTH TO WPFB	
00770	41000015	580		STQ		
00771	21001232	581		LDQ	LOAD FILE DIRECTORY LENGTH	
00772	03700774	582		AQJ,LT		
00773	14600000	583		ENQ		
00774	400001465	584		WC		
00775	30001231	585		FOLLENGTH		
00776	14102474	586		ENI		
00777	00700035	587		STA		
		588		ADA	ADD BASE ADDRESS OF THE DIRECTORY	
		589		ENI	READ A BLOCK FROM THE DIRECTORY	
		590		RTJ		

01000	14100000		591		ENI	0,X1	INITIALIZE FOR THE SEARCH
	01001		592	FDL0OKX	EQU	*-Z	
01001	25000001		593		LDAQ	NAME	
01002	33102474		594		SBAQ	BUFFER+FDSYM,X1	
01003	13400000		595		SCAQ		
01004	03001010		596		AZJ,EQ	FDL0OKZ	
	01005		597	FDLOOK	EQU	*-Z	
01005	15100012		598		INI	FOELNTH,X1	
01006	05100767		599		ISG	WPFB-FOELNTH+1,X1	
01007	01001001		600		UJP	FDLOOKX	
01010	20102462		601		LDA	BUFFER-FOELNTH+FDSYM,X1	
01011	03101013		602		AZJ,NE	*-Z+2	
01012	03200455		603		AZJ,GE	ACCEPT	JUMP IF FILE NAME NOT FOUND
01013	200001465		604		LDA	FBLK	
01014	15600001		605		INA	1	
01015	01000767		606		UJP	FOREAD	
	01016		607	FDLOOKZ	EQU	*-Z	
01016	200001216		608		LDA	ACCOUNT	LOAD THE SYSTEM ACCOUNT NUMBER
01017	210001220		609		LDQ	USER	LOAD THE SYSTEM USER CODE
01020	33102476		610		SBAQ	BUFFER+FDACC,1	
01021	13400000		611		SCAQ		
01022	03101005		612		AZJ,NE	FDLOOK	COMPARE THE ACCOUNT/USER CODE
01023	20102504		613		LDA	BUFFER+FDCCDATE,X1	
01024	03301033		614		AZJ,LT	ZAP	JUMP IF DATA IS NOT PRESENT
01025	20102501		615		LDA	BUFFER+FDLP,1	
01026	400001466		616		STA	BKPTR	SAVE THE BLOCK NUMBER
01027	14102474		617		ENI	BUFFER,1	
01030	00700035		618		RTJ	READ	READ THE FIRST FILE BLOCK
01031	200002476		619		LDA	BUFFER+2	LOAD THE LEADING WORD COUNT
01032	04600004		620		ASE	4	SKIP IF LEGITIMATE
	01033		621	ZAP	EQU	*-Z	ITS BEEN ZAPPED
01033	000001033		622		HLT	*-Z	CHECK THE TRAILING WORD COUNT
01034	210002503		623		LDQ	BUFFER+7	
01035	03501033		624		AQJ,NE	ZAP	
01036	200002475		625		LDA	BUFFER+1	THE BACKWARD POINTER FROM THIS
01037	03101033		626		AZJ,NE	ZAP	BLOCK MUST BE -0
01040	03201033		627		AZJ,GE	ZAP	
01041	250002501		628		LDAQ	BUFFER+5	LOAD THE TRANSFER ADDRESSES
01042	450001472		629		STAQ	HEADER+2	AND SAVE THEM
	01043		629+001	TRAFLAG	EQU	*-Z	
01043	04000001		630+002		ISE	IMPURE+1,0	SKIP IF TRA PRESENT
01044	440001103		630		SWA	TRA	STORE THE PRIMARY ADDRESS
01045	250002477		631		LDAQ	BUFFER+3	LOAD THE FWA AND THE WORD COUNT
01046	17677777		632		ANA	77777B	MASK OFF THE OVERLAY AND THE
01047	17777777		633		ANQ	77777B	SEGMENT NUMBERS
	01050		634	STRHEAD	EQU	*-Z	
01050	450001470		635		STAQ	HEADER	AND SAVE THEM TOO
01051	15477776		636		INA,S	-1	ADJUST SLIGHTLY
01052	440001104		637		SWA	LOWMEM	
01053	05403777		638		ASG,S	03777B	THERE IS A LOWER CORE LIMIT
01054	010001121		639		UJP	OVERCHEC	JUMP IF IN PAGE ZERO
01055	53040000		640		AQA		
01056	14777777		641		ENQ	77777B	NO END-AROUND-MEMORY FOR THIS KID
01057	03601124		642		AQJ,GE	OVERLAP	LOAD THE RECORD WORD COUNT
01060	270002504		643		LDL	BUFFER+8	THE HEADER MUST AGREE COMPLETELY
01061	210001471		644		LDQ	HEADER+1	
01062	03501033		645		AQJ,NE	ZAP	
01063	440001067		646		SWA	WCZ	
01064	14200000		647		ENI	0,2	
01065	143000011		648		ENI	9,3	NINE WORDS INTO THIS FILE BLOCK
	01066		649	MOVE	EQU	*-Z	
01066	20302474		650		LDA	BUFFER,3	LOAD A WORD FROM THE FILE
	01067	01067	651	WCZ	EQU	*-Z	
01067	10200000		652		ISI	IMPURE,2	SKIP IF THE TRAILING WORD COUNT
01070	010001104		653		UJP	LOWMEM	ITS DATA SO STORE IT AWAY
01071	17677777		654		ANA	77777B	MASK OFF THE BINARY BIT
01072	210001471		655		LDQ	HEADER+1	CHECK IT AGAINST THE HEADER
01073	03501033		656		AQJ,NE	ZAP	
	01074		657	SYSFLAGX	EQU	*-Z	
01074	04363		658	SYSFLAG	EQU,C-	*-Z+3	
	01075		659		ISE	IMPURE,0	SKIP IF NO SYSTEM LIBRARY MODS
01075	010001157		660		UJP	SYSLIB02	JUMP TO THE MODIFIER ROUTINE
01076	14201236		661		ENI	DEVLUN,2	
01077	54100545		662		LDI	DISK000,X1	LOAD CONNECT CODE OF AUTOLOAD DIS
01100	210001473		663		LDQ	HEADER+3	LOAD THE SECONDARY TRA ADDRESS
01101	200001215		664		LDA	RW	LOAD THE ADDRESSES OF READ/WRITE
01102	77700000		665		SLS		WAIT FOR THE SYSTEMS PROGRAMMER
	01103		666	TRA	EQU	*-Z	
01103	010000000		667		UJP	IMPURE	JUMP TO THE PRIMARY TRA ADDRESS

01104	01104	668	LOWMEM	EQU	*-Z	
01105	40200000	669	STA	IMPURE,2	STORE THE WORD AWAY	
01106	05300777	670	ISG	WPFB-1,3	SKIP IF END OF FILE BLOCK	
01107	02301066	671	IJI	MOVE,3	LOOP BACK	
01108	20002474	672	LDA	BUFFER	LOAD THE FORWARD POINTER	
01109	400001467	673	STA	BKPTR+1	SAVE IT FOR FUTURE REFERENCE	
01110	14102474	674	ENI	BUFFER,1		
01111	00700035	675	RTJ	READ	READ IN THE NEXT BLOCK	
01112	14300002	676	ENI	2,3	SKIP OVER THE POINTERS	
01113	25001466	677	LUAQ	BKPTR	CHECK TO SEE THAT THE LINKS ARE	
01114	41001466	678	STQ	BKPTR	THE SAME IN BOTH DIRECTIONS	
01115	21002475	679	LDQ	BUFFER+1		
01116	03401066	680	AQJ,EQ	MOVE	JUMP IF EVERYTHING IS OK	
01117	01001033	681	UJP	ZAP	THIS FILE HAS BEEN ZAPPED	
01120	01121	682				
01121	15604001	683	OVERCHEC	EQU	*-Z	
01122	54201074	684	INA	4000B+1	DIDDLE THE FWA IN CASE OF SYSLIB	
01123	02601050	685	LDI	SYSFLAGX,X2	IS THIS SYSLIB	
01124	01124	686	IJD	STRHEAD,X2	JUMP IF SYSLIB	
01124	00001124	687	OVERLAP	EQU	*-Z	
		688	HLT	*-Z		

01125	01125 20001224	690	SYSLIB01	EQU	*-Z	
01126	44001132	691	LDA	CR	LOAD THE CARD READER CONNECT CODE	
01127	22004551	692	SWA	RDCON		
01130	77540000	693	LACH	RDCHN		
01131	14600000	694	ACI		LOAD THE CARD READER CHANNEL	
	04551	695	ENA	0	AND PUT IT INTO THE CHANNEL INDEX	
	01132	696	RDCHN	EQU,C	SELECT PROGRAM STATE ZERO	
01132	77000000	697	RDCON	EQU		
01133	01001132	698	VFD	A9/CON,A15/IMPURE	CONNECT TO THE CARD READER	
01134	74001464	699	UJP	*-Z-1		
01135	00001440	700	INPW	IO,RBUFFER,RBUFFER+20		
01136	01001134	701	UJP	*-Z-2		
01137	77300006	702	INS	00068,SENSE	SENSE FOR CHANNEL BUSY	
01140	01001137	703	UJP	*-Z-1		
01141	77300001	704	INS	00018,SENSE		
01142	00001132	705	HLT	RUCON		
01143	23006200	706	LQCH	RBUFFERC		
01144	04700017	707	QSE	178	TEST COLUMN ONE FOR A 7/8 PUNCH	
01145	01001147	708	UJP	*-Z+2	SKIP IF A 7/8 PUNCH	
01146	00003700	709	HLT	37008	CONTINUE IF NO 7/8 PUNCH PRESENT	
		710			OTHERWISE, STOP	
01147	14173776	711	ENI	777768-4000B,X1	ZERO MEMORY BEFORE	
01150	40104000	712	STA	4000B,X1	READING IN THE OVERLAY	
01151	02501150	713	IJD	*-Z-1,X1		
01152	25001440	714				
01153	45000001	715	LDAQ	RBUFFER	LOAD THE FILE NAME	
01154	14600077	716	STAQ	NAME	SAVE IT FOR THE DIRECTORY SEARCH	
01155	42004363	01074 3	717	ENA	778	
01156	01000761	718	SACH	SYSFLAG	SET THE SYSTEM MODIFICATION FLAG	
	01157	719	UJP	SEARCH	GO FIND AND LOAD THE OVERLAY	
01157	200001470	720	SYSLIB02	EQU		
01160	17674000	721	LDA	HEADER	LOAD THE FWA FOR THE OVERLAY	
01161	44000200	722	ANA	74000B	MASK TO A PAGE BOUNDARY	
01162	14604000	723	SWA	LWA	SAVE FOR FUTURE USE	
01163	400000015	724	ENA	4000B	SET THE BUFFER LENGTH TO A PAGE	
01164	77700000	725	STA	WC		
01165	14277670	726	SLS		WAIT FOR THE SYSTEMS PROGRAMMER	
	01166	727	ENI	-71,2	START THE SCAN IN COLUMN 10	
01166	02201170	728	SYSLIB03	EQU		
01167	01001125	729	IJI	*-Z		
01170	14600060	730	UJP	*-Z+2,2	LOOK FOR MORE MODIFICATIONS	
01171	23406317	01463 3	731	ENA	60B	
01172	03401166	732	LQCH	RBUFFERC+79,2	BCD BLANK	
01173	13000030	733	AQJ,EQ	SYSLIB03	LOAD A CHARACTER	
01174	05600010	734	SHAQ	24	LOOP BACK IF A BLANK	
01175	01001207	735	ASG	8	PUT THE CHARACTER INTO A	
01176	00001176	736	UJP	SYSLIB06	SKIP IF NOT AN OCTAL DIGIT	
	01177	737	HLT	*-Z	PACK A FILE BLOCK NUMBER	
01177	23406317	738	SYSLIB04	EQU	CARD FORMAT ERROR	
01200	05700010	739	LQCH	RBUFFERC+79,2		
01201	01001205	740	QSG	8	LOAD A CHARACTER	
01202	04700060	741	UJP	SYSLIB05	SKIP IF NOT AN OCTAL DIGIT	
01203	00001203	742	QSE	60B	ADD-MULTIPLY THIS DIGIT IN	
01204	01001210	743	HLT	*-Z	SKIP IF A BLANK	
	01205	744	UJP	SYSLIB07	CARD FORMAT ERROR	
01205	12400025	745	SYSLIB05	EQU	THE NUMBER IS NOW PACKED	
01206	13000003	746	SHQ	21		
	01207	747	SHAQ	3	PACK THE OCTAL NUMBER	
01207	02201177	748	SYSLIB06	EQU		
	01210	749	IJI	*-Z	LOOP BACK IF MORE CHARACTERS	
01210	54100200	750	SYSLIB07	EQU		
01211	05104000	751	LDI	LWA,X1	LOAD THE PAGE ADDRESS	
01212	00001212	752	ISG	4000B,X1	SKIP IF LEGAL	
01213	00700045	753	HLT	*-Z	THIS IS SERIOUS BUSINESS	
01214	01001166	754	RTJ	WRITE	WRITE THE PAGE OUT	
		755	UJP	SYSLIB03	LOOP BACK	

01215	00350045	758	RW	EQU	*-Z 0170,A11/READ,01/0,A11/WRITE
		759	VFD		
		760			
		761	BLKLIST	EQU	*-Z SYMBOLS FROM SYMBOL BLOCK
		762	ACCOUNT	EQU	*-Z SYSTEM ACCOUNT NUMBER
01216	21232346	763	BCD		2,ACCOUNT
		764	USER	EQU	*-Z SYSTEM USER CODE
01220	64622551	765	BCD		2,USER
		765+001	COMMANDS	EQU	*-Z
01222	23464444	765+002	BCD		2,COMMANDS
		766	CR	EQU	*-Z CARD READER CONNECT CODE
01224	23516060	767	BCD		2,CR
01226	44676222	768	BCD		2,MXSBLOCK
	00012	769	BLKLNTH	EQU	*-Z-BLKLIST MUST BE LAST LENGTH OF SYMBOL TABLE
		770			
		771			
		772			
		773	IF		*-Z-1777B-1 GE 0, SOMEBODY BLEW IT
		774			
01230	01230	775	SCRATCH	EQU	*-Z
	01233	776	BLKTEMP	EQU	*-Z
		777	BSS		1
		778			
01231	01231	779	FILEDIR	EQU	*-Z FIRST BLOCK OF THE FILE DIRECTORY
		780	BSS		
01231	01232	781	FOLLENGTH	EQU	2 FILEDIR+1 LENGTH OF THE FILE DIRECTORY
	01233	782	HASH	EQU	*-Z
01233	01234	783			1 LAST BLOCK OF LIBRARY+1
		783+001	HPFB	EQU	*-Z
01234		783+002			1 DISK ERROR COUNTER
01235	01235	784	ERRORS	EQU	*-Z
		785	BSS		1
01235	01236	786	DEVLUN	EQU	*-Z
	01237	787	DEVBLC	EQU	DEVLUN+1 DEVLIST+DEVLIST+2
01236	01440	788	BSS		*-Z
	06200	789	RBUFFER	EQU	*-Z
01440		790	RBUFFERC	EQU,C	*-Z 20
	01464	791	BSS		*-Z
01464		792	ADDRESS	EQU	1
	01465	793	BSS		*-Z
01465	01465	794	FBLK	EQU	1
		795	BSS		*-Z
01466	01466	798	BKPTR	EQU	2
		799	BSS		*-Z
01466	01470	800	HEADER	EQU	4
		801	BSS		*-Z
01470	01474	802	MXSLIST	EQU	*-Z
		803	BSS		WPFB
01474	02474	804	BUFFER	EQU	*-Z
		805	BSS		WPFB
02474	02244	806	SCRATCHL	EQU	*-Z-SCRATCH
		807	IF		*-Z-3700B GE 0, SOMEBODY BLEW IT
		808	END		

NO LINES WITH ERRORS

ACCEPT	00455	398	415	00475P	564 00674P	603 01012P						
ACCOUNT	01216	762	608	01010P								
ADDRESS	01464	792	145	00105P	203 00171P	203 00171P	273 00262P	367 00420P	446 00527P			
ADDSAVE	00076	137	126	00063P								
BADLABEL	00644	534	426	00506P	505 00607P	512 00616P	517 00623P					
BADMESS	01667	523	325	00360P	535 00644P	536 00645P						
BAUMESSL	00014	325	536	00645P								
BIT23	00005	51	501	00603P	569+33 00736P							
BKPTR	01466	798	616	01023P	673 01110P	677 01114P	678 01115P					
BLANKS	00476	416	399	00455P								
BLKLST	01216	761	769	01230P	547 00653P	556 00663P						
BLKLNTH	00012	769	558	00665P								
BLKTEMP	01230	776	158	00121P	185 00152P	279 00270P						
BLOCKBUF	04000	3	469	00550P	474 00555P	476 00557P	546 00652P	555 00662P				
BLOCKLOC	00547	467	520	00626P								
BUFFER	02474	804	373	00426P	373 00426P	385 00442P	389 00446P	440 00521P	493 00574P			
			502	00604P	507 00611P	513 00617P	519 00625P	521 00627P	523 00631P			
			525	00633P	526+1 00635P	526+2 00636P	569+4 00704P	569+11 00712P	569+14 00715P			
			569+16	00717P	569+18 00721P	589 00776P	594 01002P	601 01010P	610 01020P			
			613	01023P	615 01025P	617 01027P	619 01031P	623 01034P	625 01036P			
			628	01041P	631 01045P	643 01060P	650 01066P	672 01107P	674 01111P			
CNCODE	00225	239	129	00066P	293 00305P							
COMMANDS	01222	765+1	569+3	00703P								
COMPLAIN	00250	262	99	00043P	120 00057P	257 00245P						
CON	00770	4	240	00225P	362 00413P	698 01132P						
CONNECT	00223	236	155	00117P								
CONNECTX	00222	234	242	00227P								
CONSAVE	00602	499	490	00571P	528 00640P							
CONVERT	00675	565	414	00474P								
CR	01224	766	691	01125P								
DEVBLK	01237	787	124	00061P	173 00140P	509 00613P	510 00614P	514 00620P	515 00621P			
DEVLIST	00100	59	788	01236P	788 01236P	176 00143P	494 00575P					
DEVLUU	01236	786	787	01236P	127 00064P	503 00605P	506 00610P	661 01076P				
DISK	00004	449	472	00553P								
DISK000	00545	462	423	00504P	662 01077P							
DKLNTH	00070	513	297	00311P								
DKLOOP	00640	527	492	00573P	496 00577P	518 00624P						
DKMBLK	01562	511	283	00274P								
DKMSG	01502	500	313	00336P	296 00310P	297 00311P						
DKMSGADR	01522	304	277	00266P								
DKMSGORV	01544	308	295	00307P								
DKMSGEC	01503	302	271	00260P								
DKMSGEXS	01535	306	291	00303P								
DKNUM	00020	6	487	00567P								
DKSCAN	00570	488	529	00641P								
DKSCANX	00563	482	464	00546P	477 00560P							
DKSCANX1	00562	480	484	00564P	531 00643P							
ERROR	00230	243	97	00041P	114 00051P	118 00055P	201 00167P	204 00173P	215 00202P			
ERRORS	01235	784	141	00101P	223 00210P	228 00215P	231 00220P	264 00251P	368 00421P	448 00531P		
ESTATUS	00276	285	246	00232P	604 01013P							
FBLK	01465	794	587	00774P	610 01020P							
FDACC	00002	9	10	00000P								
* FDATE	00004	11										
* FDBUSY	00011	16										
* FDODATE	00010	15	613	01023P								
* FOELNTH	00012	17	598	01005P	599 01006P	601 01010P						
* FDEPP	00006	13										
FDLENGTH	01232	781	584	00771P								
FDLOOK	01005	597	612	01022P								
FOLOOKX	01001	592	600	01007P								
FOLOOKZ	01016	607	596	01004P								
FOLP	00005	12	615	01025P								
FOREAD	00767	581	606	01015P								
FDSELECT	00765	578	524	00632P	601 01010P							
FDSYM	00000	8	594	01002P								
* FDTFL	00007	14										
* FDURN	00003	10										
FILEDIR	01231	779	781	01233P	522 00630P	588 00775P						
FWA	00201	213	147	00107P	160 00123P							
GLERCH	00536	453	450	00533P								
HASH	01233	782	526	00634P	576 00763P							
HEADER	01470	800	629	01042P	635 01050P	644 01061P	655 01072P	663 01100P	721 01157P			
HPFB	01234	783+1	526+3	00537P	569+22 00725P							
IDENT	00317	299+3	344	00375P	427 00507P							
IMPURE	00000	19	64	00020P	65 00021P	93 00035P	110 00045P	138 00076P	153 00115P			
			157	00120P	199 00165P	209 00176P	214 00200P	214 00200P	220 00205P			
			237	00223P	240 00225P	261 00247P	263 00250P	286 00276P	328 00361P			

INIT	00500	418	346 00376P	357 00410P	362 00413P	392 00450P	463 00545P	468 00547P
IU	00000	20	43 00000P	483 00562P	500 00602P	579 00765P	579 00766P	629+2 01043P
TOP	01000	211	652 01067P	659 01074P	667 01103P	669 01104P	698 01132P	
IOX	00176	208	159 00122P	214 00200P	373 00426P	457 00541P	700 01134P	
IR	00017	61	98 00042P	115 00052P	119 00056P	217 00204P		
LABEL	00100	22	195 00164P	258 00246P				
LOAD	00165	138	373 00426P	383 00440P				
LOWMEM	01104	668	116 00053P	206 00175P	235 00222P	370 00423P	451 00534P	
LWA	00200	212	637 01052P	653 01070P	723 01161P	751 01210P		
MOVE	01066	649	213 00200P	148 00110P				
MPARITY	00040	55	671 01106P	680 01117P				
MSLBLK	00006	27	66 00022P	67 00023P				
MSLDN	00001	24	519 00625P					
MSLF3PC	00007	28	493 00574P	502 00604P				
MSLFDHSH	00014	31	440 00521P					
MSLFDLOC	00010	29	525 00633P					
MSLFUSEL	00012	30	521 00627P					
MSLHFBN	00003	26	523 00631P					
MSLIIDENT	00000	23	507 00611P					
MSLLFBN	00002	25	389 00446P					
MSLPFBN	00004	26+1	513 00617P	526+2 00636P				
MXK	00651	543	526+1 00635P					
MXKK	00650	541	559 00666P					
MXL	00652	545	475 00556P					
MXSLIST	*01474	802	552 00660P					
MXSPTR	00003	47	48 00003P	168 00133P	170 00135P	561 00667P		
MXZ	00662	554	549 00655P					
NAME	00001	44	400 00456P	566 00675P	569+10 00711P	569+13 00714P	569+19 00722P	569+24 00727P
NAMEC	00004	45	716 01153P	569+38 00743P	569+45 00752P	569+50 00757P	571 00761P	593 01001P
NAMEREQ	01572	314	406 00464P	408 00466P				
OUT	00361	327	401 00457P	402 00460P	193 00162P	298 00312P	334 00367P	403 00461P
OVERCHEC	01121	683	687 01054P					
OVERLAP	01124	687	639 01057P					
PAGELP	00731	569+27	569+51 00760P					
PANICX	00152	184	184 00125P					
PANICZ	00145	178	162 00062P	128 00065P				
PERSIST	00016	59	178 00241P					
PFW	00000	33	125 00512P	436 00516P				
PKHS	01460	299+1	162 00671P					
PKMSL	01502	299+6	563+1 00672P					
PRESET	00120	156	563+2 00037P	112 00047P				
PRESETX	00061	123	95 00141P					
RBUFFER	01440	789	174 01134P	700 01134P	715 01152P			
RBUFFERC	06200	790	700 01143P	732 01171P	739 01177P			
ROCHN	04551	696	706 01127P					
RUCON	01132	697	693 01126P	705 01142P				
RDLABEL	00376	345	692 01126P	491 00572P				
RDLABELQ	00375	343	425 00505P					
RDLABELX	00374	341	390 00447P					
RDLBLAGN	00450	391	365 00416P	395 00453P				
RDLBLBSY	00370	336	358 00411P	369 00422P	372 00425P	374 00430P	380 00435P	382 00437P
RDLBLCHN	02055	361	387 00444P	388 00445P				
RDLBLCON	00413	360	378 00433P					
RDLBLOVR	00410	356	348 00400P					
RDLBLWT	00432	376	347 00377P	394 00452P				
READ	00035	92	356 00373P					
RW	01215	758	100 00044P	470 00551P	562 00670P	569+5 00705P	569+46 00753P	590 00777P
SCRATCH	01230	775	664 01101P	618 01030P	675 01112P	759 01215P		
SCRATCHL	02244	806	806 03474P	421 00502P	457 00541P			
SEARCH	00761	570	419 00500P					
SEARCHFU	00761	569+53	719 01156P	569+12 00713P	569+21 00724P	569+23 00726P		
SECPCYL	00032	80	569+12 00713P					
SECOPFB	00027	75	142 00102P	139 00077P	444 00525P	445 00526P		
SELECT	00000	34	96 00040P	113 00050P	117 00054P	200 00166P	371 00424P	452 00535P
SENSE	00000	35	221 00206P	222 00207P	224 00211P	226 00213P	227 00214P	229 00216P
SRCHLP	00710	569+8	230 00217P	245 00231P	248 00234P	249 00235P	265+1 00253P	328+1 00362P
STRHEAD	01050	634	377 00432P	379 00434P	381 00436P	403+1 00462P	410+1 00471P	412+1 00473P
SYSFLAG	04363	658	702 01137P	704 01141P				

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