

LENGTH OF PRG 01000

1		IDENT	MSFMOUNT
2		INCLUDE	↑SYSMAC
3	3+001	SYSMAC	COSY/ 03 V4.1 08/17/74 0453
4		ENTRY	MSFMOUNT
5		EXT	ARRAYTBL
6		EXT	BIT16
7		EXT	BIT22
8		EXT	BIT23
9		EXT	CONNECT
10		EXT	D10
11		EXT	DKCONTAB
12		EXT	DKSTATAB
13		EXT	DKSTATM1
14		EXT	DKSTATBL
15		EXT	FILE
16		EXT	FREEMEM
17		EXT	GETMEM
18		EXT	IDLE
19		EXT	IOCLEAR
20		EXT	MONREAD
21		EXT	MOUNTRET
22		EXT	MSFBBLK
23		EXT	MSFNUMB
24		EXT	MSUNITM1
25		EXT	MSUNITS
26		EXT	NBIT22
27		EXT	NMTWAIT
28		EXT	NUMDKCON
29		EXT	OPMSG
30		EXT	SCREAM
31		EXT	UNCON
32	00001	X1	EQU 1
33	00002	X2	EQU 2
34	00003	X3	EQU 3
35	00000	PSA	EQU 0
36	00000	CNBLK	EQU 0
37			
38			
39			
40			
41	00000	IMPURE	EQU 00000
42			
43	00000	MSLIDEN	EQU 0
44	00002	MSLLFBN	EQU 2
45	00003	MSLHFBN	EQU 3
46	00007	MSLDEV	EQU 7
47			
48	00000	SENSE	EQU 0
49	00001	PFLOC	EQU 1
50			
51	00035	NU	EQU 35B
52	73777 P	Z	EQU *-4000B
53			

LABEL IDENT
 LOW FILE BLOCK NUMBER / USER PACK
 HIGH FILE BLOCK NUMBER / NUMBER 0
 DEVICE TYPE

NUMBER OF USERS REGISTER FILE LOC
 PROGRAM LOADS AT 4000B

55
 56 *
 57 * FCBDEF
 58 *
 59 * FILE CONTROL BLOCK DEFINITIONS
 60 *
 61 *
 62 00000 71 ACCWORD EQU 0 ACCOUNTING WORD (MUST BE 0)
 63 00001 72 LP EQU 1 LOAD POINT BLOCK
 64 00002 73 COREP EQU 2 CORE POINTER IF NON-ZERO
 65 * IF BIT23 = 1, CORE BLOCK HAS
 66 * BEEN WRITTEN INTO
 67 * BLOCK NUMBER OF THE CURRENT BLOC
 68 CBP EQU COREP+1 CURRENT POSITION POINTER
 69 CPP EQU 4 (REL. POSIT. WITHIN BLOCK CBP)
 70 *
 71 *
 72 *
 73 *
 74 *
 75 *
 76 *
 77 *
 78 *
 79 *
 80 *
 81 *
 82 *
 83 *
 84 *
 85 *
 86 *
 87 *
 88 00005 83 SLKR EQU 5 NUMBER OF BLOCKS BEYOND
 89 * THE CURRENT BLOCK
 90 * END POSITION POINTER
 91 *
 92 *
 93 *
 94 *
 95 *
 96 *
 97 *
 98 *
 99 *
 00006 90 EPP EQU 6
 00007 97 TFL EQU 7
 98 *
 99 *
 00008 98 AEB EQU BIT16 ADDRESS ERROR STATUS BIT
 99 *
 00009 99 *
 00010 00 *
 00011 01 *
 00012 02 *
 00013 03 *
 00014 04 *
 00015 05 *
 00016 06 *
 00017 07 *
 00018 08 *
 00019 09 *
 00020 0A *
 00021 0B *
 00022 0C *
 00023 0D *
 00024 0E *
 00025 0F *
 00026 10 *
 00027 11 *
 00028 12 *
 00029 13 *
 00030 14 *
 00031 15 *
 00032 16 *
 00033 17 *
 00034 18 *
 00035 19 *
 00036 1A *
 00037 1B *
 00038 1C *
 00039 1D *
 00040 1E *
 00041 1F *
 00042 20 *
 00043 21 *
 00044 22 *
 00045 23 *
 00046 24 *
 00047 25 *
 00048 26 *
 00049 27 *
 00050 28 *
 00051 29 *
 00052 2A *
 00053 2B *
 00054 2C *
 00055 2D *
 00056 2E *
 00057 2F *
 00058 30 *
 00059 31 *
 00060 32 *
 00061 33 *
 00062 34 *
 00063 35 *
 00064 36 *
 00065 37 *
 00066 38 *
 00067 39 *
 00068 3A *
 00069 3B *
 00070 3C *
 00071 3D *
 00072 3E *
 00073 3F *
 00074 40 *
 00075 41 *
 00076 42 *
 00077 43 *
 00078 44 *
 00079 45 *
 00080 46 *
 00081 47 *
 00082 48 *
 00083 49 *
 00084 4A *
 00085 4B *
 00086 4C *
 00087 4D *
 00088 4E *
 00089 4F *
 00090 50 *
 00091 51 *
 00092 52 *
 00093 53 *
 00094 54 *
 00095 55 *
 00096 56 *
 00097 57 *
 00098 58 *
 00099 59 *
 00000 5A *
 00001 5B *
 00002 5C *
 00003 5D *
 00004 5E *
 00005 5F *
 00006 60 *
 00007 61 *
 00008 62 *
 00009 63 *
 0000A 64 *
 0000B 65 *
 0000C 66 *
 0000D 67 *
 0000E 68 *
 0000F 69 *
 00010 6A *
 00011 6B *
 00012 6C *
 00013 6D *
 00014 6E *
 00015 6F *
 00016 70 *
 00017 71 *
 00018 72 *
 00019 73 *
 0001A 74 *
 0001B 75 *
 0001C 76 *
 0001D 77 *
 0001E 78 *
 0001F 79 *
 00020 7A *
 00021 7B *
 00022 7C *
 00023 7D *
 00024 7E *
 00025 7F *
 00026 80 *
 00027 81 *
 00028 82 *
 00029 83 *
 0002A 84 *
 0002B 85 *
 0002C 86 *
 0002D 87 *
 0002E 88 *
 0002F 89 *
 00030 8A *
 00031 8B *
 00032 8C *
 00033 8D *
 00034 8E *
 00035 8F *
 00036 90 *
 00037 91 *
 00038 92 *
 00039 93 *
 0003A 94 *
 0003B 95 *
 0003C 96 *
 0003D 97 *
 0003E 98 *
 0003F 99 *
 00040 9A *
 00041 9B *
 00042 9C *
 00043 9D *
 00044 9E *
 00045 9F *
 00046 00 *
 00047 01 *
 00048 02 *
 00049 03 *
 0004A 04 *
 0004B 05 *
 0004C 06 *
 0004D 07 *
 0004E 08 *
 0004F 09 *
 00050 0A *
 00051 0B *
 00052 0C *
 00053 0D *
 00054 0E *
 00055 0F *
 00056 10 *
 00057 11 *
 00058 12 *
 00059 13 *
 0005A 14 *
 0005B 15 *
 0005C 16 *
 0005D 17 *
 0005E 18 *
 0005F 19 *
 00060 1A *
 00061 1B *
 00062 1C *
 00063 1D *
 00064 1E *
 00065 1F *
 00066 20 *
 00067 21 *
 00068 22 *
 00069 23 *
 0006A 24 *
 0006B 25 *
 0006C 26 *
 0006D 27 *
 0006E 28 *
 0006F 29 *
 00070 2A *
 00071 2B *
 00072 2C *
 00073 2D *
 00074 2E *
 00075 2F *
 00076 30 *
 00077 31 *
 00078 32 *
 00079 33 *
 0007A 34 *
 0007B 35 *
 0007C 36 *
 0007D 37 *
 0007E 38 *
 0007F 39 *
 00080 3A *
 00081 3B *
 00082 3C *
 00083 3D *
 00084 3E *
 00085 3F *
 00086 40 *
 00087 41 *
 00088 42 *
 00089 43 *
 0008A 44 *
 0008B 45 *
 0008C 46 *
 0008D 47 *
 0008E 48 *
 0008F 49 *
 00080 4A *
 00081 4B *
 00082 4C *
 00083 4D *
 00084 4E *
 00085 4F *
 00086 50 *
 00087 51 *
 00088 52 *
 00089 53 *
 0008A 54 *
 0008B 55 *
 0008C 56 *
 0008D 57 *
 0008E 58 *
 0008F 59 *
 00080 5A *
 00081 5B *
 00082 5C *
 00083 5D *
 00084 5E *
 00085 5F *
 00086 60 *
 00087 61 *
 00088 62 *
 00089 63 *
 0008A 64 *
 0008B 65 *
 0008C 66 *
 0008D 67 *
 0008E 68 *
 0008F 69 *
 00080 6A *
 00081 6B *
 00082 6C *
 00083 6D *
 00084 6E *
 00085 6F *
 00086 70 *
 00087 71 *
 00088 72 *
 00089 73 *
 0008A 74 *
 0008B 75 *
 0008C 76 *
 0008D 77 *
 0008E 78 *
 0008F 79 *
 00080 7A *
 00081 7B *
 00082 7C *
 00083 7D *
 00084 7E *
 00085 7F *
 00086 80 *
 00087 81 *
 00088 82 *
 00089 83 *
 0008A 84 *
 0008B 85 *
 0008C 86 *
 0008D 87 *
 0008E 88 *
 0008F 89 *
 00080 8A *
 00081 8B *
 00082 8C *
 00083 8D *
 00084 8E *
 00085 8F *
 00086 90 *
 00087 91 *
 00088 92 *
 00089 93 *
 0008A 94 *
 0008B 95 *
 0008C 96 *
 0008D 97 *
 0008E 98 *
 0008F 99 *
 00080 9A *
 00081 9B *
 00082 9C *
 00083 9D *
 00084 9E *
 00085 9F *
 00086 00 *
 00087 01 *
 00088 02 *
 00089 03 *
 0008A 04 *
 0008B 05 *
 0008C 06 *
 0008D 07 *
 0008E 08 *
 0008F 09 *
 00080 0A *
 00081 0B *
 00082 0C *
 00083 0D *
 00084 0E *
 00085 0F *
 00086 10 *
 00087 11 *
 00088 12 *
 00089 13 *
 0008A 14 *
 0008B 15 *
 0008C 16 *
 0008D 17 *
 0008E 18 *
 0008F 19 *
 00080 1A *
 00081 1B *
 00082 1C *
 00083 1D *
 00084 1E *
 00085 1F *
 00086 20 *
 00087 21 *
 00088 22 *
 00089 23 *
 0008A 24 *
 0008B 25 *
 0008C 26 *
 0008D 27 *
 0008E 28 *
 0008F 29 *
 00080 2A *
 00081 2B *
 00082 2C *
 00083 2D *
 00084 2E *
 00085 2F *
 00086 30 *
 00087 31 *
 00088 32 *
 00089 33 *
 0008A 34 *
 0008B 35 *
 0008C 36 *
 0008D 37 *
 0008E 38 *
 0008F 39 *
 00080 3A *
 00081 3B *
 00082 3C *
 00083 3D *
 00084 3E *
 00085 3F *
 00086 40 *
 00087 41 *
 00088 42 *
 00089 43 *
 0008A 44 *
 0008B 45 *
 0008C 46 *
 0008D 47 *
 0008E 48 *
 0008F 49 *
 00080 4A *
 00081 4B *
 00082 4C *
 00083 4D *
 00084 4E *
 00085 4F *
 00086 50 *
 00087 51 *
 00088 52 *
 00089 53 *
 0008A 54 *
 0008B 55 *
 0008C 56 *
 0008D 57 *
 0008E 58 *
 0008F 59 *
 00080 5A *
 00081 5B *
 00082 5C *
 00083 5D *
 00084 5E *
 00085 5F *
 00086 60 *
 00087 61 *
 00088 62 *
 00089 63 *
 0008A 64 *
 0008B 65 *
 0008C 66 *
 0008D 67 *
 0008E 68 *
 0008F 69 *
 00080 6A *
 00081 6B *
 00082 6C *
 00083 6D *
 00084 6E *
 00085 6F *
 00086 70 *
 00087 71 *
 00088 72 *
 00089 73 *
 0008A 74 *
 0008B 75 *
 0008C 76 *
 0008D 77 *
 0008E 78 *
 0008F 79 *
 00080 7A *
 00081 7B *
 00082 7C *
 00083 7D *
 00084 7E *
 00085 7F *
 00086 80 *
 00087 81 *
 00088 82 *
 00089 83 *
 0008A 84 *
 0008B 85 *
 0008C 86 *
 0008D 87 *
 0008E 88 *
 0008F 89 *
 00080 8A *
 00081 8B *
 00082 8C *
 00083 8D *
 00084 8E *
 00085 8F *
 00086 90 *
 00087 91 *
 00088 92 *
 00089 93 *
 0008A 94 *
 0008B 95 *
 0008C 96 *
 0008D 97 *
 0008E 98 *
 0008F 99 *

ADDRESS ERROR STATUS BIT

```

61   ****
62   *      ENTER WITH
63   *      X2 = BUFFER ADDRESS (IF A MOUNT REQUEST)
64   *      X3 = RETURN ADDRESS
65   *
66   *      THIS CODE MAKES THE ASSUMPTION IN SOME AREAS THAT IT IS
67   *      RUNNING ON LEVEL ONE
68   *      ****

70
71
72   MSFMOUNT EQU      *
73   STI       BUFFADD,X2    SAVE THE BUFFER ADDRESS
74   STI       EXITADD,X3    SAVE THE RETURN ADDRESS
75   RTJ       CHECKUN      CHECK FOR UNEQUIPPED UNITS
76   LDA       BUFFADD      DID WE HAVE A MESSAGE TO LOOK AT
77   AZJ,EQ    CHECEXIT    JUMP IF NOT
78   SHA       LACHADD     CONVERT TO CHARACTER ADDRESS
79   SCHA      4,X1        START AFTER THE FOURTH CHARACTER
80   ENI       LACHIT      MUST BE A COMMA
81   RTJ
82   ASE
83   UJP
84   ENA,S
85   UJP
86   PACKDEV2
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138

70
71
72   PACKDEV EQU      *
73   TAI       X2          SAVE CURRENT DIGIT IN X2
74   ENA       10
75   MUA       NUMBER
76   AIA       X2          ADD IN CURRENT DIGIT
77   STA       Z-Z
78   RTJ       NUMBER
79   ASG       LACHIT
80   UJP       10
81   ASE       PACKDEV
82   UJP       73B
83   RTJ       ERROR
84   ASE       LACHIT
85   UJP       23B
86   RTJ       ERROR
87   ASE       LACHIT
88   UJP       10B
89   RTJ       ERROR
90   ENQ       CHANNEL
91   AQJ,GE   LACHIT
92   SACH      25B
93   RTJ       ERROR
94   ASE       LACHIT
95   UJP       3
96   RTJ       EQUIPMEN
97   ASE       LACHIT
98   UJP       64B
99   RTJ       ERROR
100  ASE      LACHIT
101  UJP       11
102  RTJ       ERROR
103  ENQ       CHANNEL
104  AQJ,GE   LACHIT
105  SACH      25B
106  RTJ       ERROR
107  ASE       LACHIT
108  UJP       3
109  RTJ       EQUIPMEN
110  ASE       LACHIT
111  SHA       64B
112  SACH      ERROR
113  RTJ       LACHIT
114  ASE       11
115  UJP       EQUIPMEN
116  RTJ       LACHIT
117  ENQ       25B
118  AQJ,GE   EQUIPMEN
119  SACH      3
120  RTJ       LACHIT
121  STI       64B
122  ENI       EQUIPMEN
123  ENQ,S    11
124  MEQ      EQUIPMEN
125  UJP      11
126  STI      EQUIPMEN
127  ENQ      EQUIPMEN
128  LDL      EQUIPMEN
129  ENI      EQUIPMEN
130  MEQ      EQUIPMEN
131  UJP      EQUIPMEN
132  ENI      EQUIPMEN
133  ENQ      EQUIPMEN
134  LDL      EQUIPMEN
135  MEQ      EQUIPMEN
136  UJP      EQUIPMEN
137  UJP      EQUIPMEN
138  ENI      EQUIPMEN

00000 00000 P
00001 47204445
00002 47304353
00003 00704507
00004 20004445
00005 03004327
00006 12000002
00007 46004401
00008 14100004
00009 00704400
00010 04600073
00011 01004403
00012 14477777
00013 01004021
00014 04015
00015 53600000
00016 14600012
00017 50004434
00020 53240000
00021 04021
00022 40004434
00023 00704400
00024 05600012
00025 01004015
00026 04600073
00027 01004403
00028 00704400
00029 04600023
00030 01004403
00031 00704400
00032 04442 1
00033 00704400
00034 14700010
00035 03604403
00036 42022211
00037 04600025
00038 01004403
00039 00704400
00040 04442 2
00041 00704400
00042 03604403
00043 00704400
00044 12000003
00045 42022212
00046 04600025
00047 01004403
00048 00704400
00049 04442 3
00050 00704400
00051 03604403
00052 00704400
00053 16400010
00054 42022213
00055 047104444
00056 20004434
00057 14177777 X
00058 14577777
00059 06177777 X
00060 01004403
00061 047104271
00062 14777000
00063 27004442
00064 14177777 X
00065 06177777 X
00066 01004403
00067 14177777 X
00068 14177777 X
00069 14777007
00070 27004442
00071 06177777 X
00072 01004076
00073 01004403
00074 14177777
00075 14177777 X
00076 14177777 X

```

00077	20100073 X	139	LDA	DKSTATAB,X1	LOAD A CONNECT CODE WORD
00100	03304103	140	AZJ,LT	*-Z+3	JUMP IF UNIT IS NOT PRESENT
00101	02104077	141	IJI	*-Z-2,X1	LOOK THUR ALL POSITIONS FOR THIS
00102	01004403	142	UJP	ERROR	
00103	14300000	143			
00104	20377777 X	144	ENI	0,X3	ASSIGN A UNIT NUMBER TO THE DEVICE
00105	03304111	145	LDA	ARRAYTBL,X3	JUMP IF DEVICE IS NOT BEING USED
00106	10377777 X	146	AZJ,LT	*-Z+4	
00107	01004104	147	ISI	MSUNITM1,X3	
00110	01004403	148	UJP	*-Z-3	NO TABLE ENTRIES
00111	14600000	149	UJP	ERROR	
00112	40300104 X	150			
00113	53300000	151	ENA	0	SAY THE DEVICE IS PRESENT
00114	12000017	152	STA	ARRAYTBL,X3	DEVICE NUMBER TO A
00115	35004442	153	TIA	X3	
00116	40100077 X	154	SHA	15	
00117	47104264	155	SSA	CONCODE	
00120	21077777 X	156	STA	DKSTATAB,X1	SAVE THE CONNECT CODE
00121	54104271	157	STI	DKSTABX1,X1	SAVE THE POINTER
00122	20177777 X	158			
00123	53500000	159	LDQ	BIT23	REMEMBER THAT WE ARE PROCESSING
00124	41100000	160	LDI	MSFFPOS,X1	THE MOUNT REQUEST FOR THIS DEVICE
		161	LDA	MSFBLK,X1	FIND THE CONTROL BLOCK
		162	TAI	X1+CNBBLK	
		163	STQ	0,X1+CNBBLK	
00125	14300004	164			
00126	00777777 X	165	ENI	4,X3	GET 16 WORDS OF FREE MEMORY
00127	44004443	166	RTJ	GETMEM	
00130	14177760	167	SWA	FREEBLK	
00131	21104612	168	ENI	-15,X1	MOVE THE NEEDED INFORMATION
00132	41300000	169	LDQ	FREECOPY+15,X1	TO THE BLOCK
00133	15300001	170	STQ	0,X3	
00134	02104131	171	INI	1,X3	
00135	14200017	172	IJI	*-Z-3,X1	RELOCATE THE INFORMATION
00136	15377770	173	ENI	15,X2	
00137	23423054	04613 0	174	INI	-1,X3
00140	04700000	175	LQCH	RELOCTAB,X2	SKIP IF NO RELOCATION
00141	34300000	176	QSE	0	
00142	02604136	177	RAO	0,X3	
00143	77650001	178	IJO	*-Z-4,X2	
00144	34300004	179	PFA	PFLOC	
		180	RAO	SETPF,X3	SET THE CURRENT PF LOCATION IN
		181	*		THE FREE STORAGE BLOCK
00145	14604155	182	ENA	CONRETRN	
00146	44300006	183	SWA	MAINRET,X3	SAVE THE RETURN ADDRESS
00147	14703720	184	ENQ	2000	SAY WE WANT THE CHANNEL FOR 2 SEC
00150	54104442	185	LDI	CONCODE,X1	LOAD THE CONNECT CODE
00151	47104155	186	STI	CONN,X1	SAVE THE CONNECT CODE
00152	54204353	187	LDI	EXITADD,X2	LOAD THE RETURN ADDRESS IN CASE T
00153	15300005	188	INI	CONCALL,X3	THE CONTROLLER IS BUSY
00154	01077777 X	189	UJP	CONNECT	

```

192 *
193 * RETURN TO HERE AFTER OBTAINING THE PROPER DISK CHANNEL *
194 *
195 * NOTE THAT WE MAY NO LONGER BE ON LEVEL ONE *
196 *

198
199 CONRETRN EQU      *--Z
200 STI     EXITADD,X2   SAVE THE RETURN ADDRESS
201 LDI     FREEBLK,X1   LOAD THE FREE STORAGE ADDRESS
202 LDA     PFSAVE,X1    REMEMBER WHAT WAS IN PF1
203 SWA     EXITPFI      SO WE CAN RESTORE IT
204 LDI     MSFPOS,X1    HAS THE DEVICE BEEN UNEQUIPPED
205 LOA     MSFBLK,X1
206 AZJ,LT CALUNCON

00164 14300144      208 ENI     100,X3      TRY TO REALLY MAKE THE CONNECT
00165 47204353      209 CONN    EQU      *--Z
00166 54104443      210 CON     IMPURE,0
00167 20100016      211 IJD     *-Z-1,X3
00168 44004352      212 EXS     0001B,SENSE
00169 54104271      213 EXS     0002B,SENSE
00170 20100122 X     214 IJD     CONN,X3
00171 03304202      215 ENA     UNCONRET
00172 14604206      216 IJD     CALUNCON,X3
00173 02704202      217          JUMP IF WE CONNECTED OK

00174 00704355      218 RTJ     TAKEOFF
00175 14604177      219 ENA     *-Z+2
00176 01004202      220 UJP     CALUNCON
00177 11022346      04471 2  221 ECHA    CANTCON
00200 14700035      222 ENQ     CANTCONL
00201 01004325      223 UJP     CALLOP
00202 04202          224 CALUNCON EQU      *--Z
00203 54204443      225 LDI     FREEBLK,X2
00204 44200006      226 SWA     MAINRET,X2
00205 15200004      227INI    SETPF,X2
00206 01077777 X     228 UJP     UNCON
00207 04206          229          ENTER THE RETURN FOR UNCON
00208 54104271      230          GIVE UP THE CHANNEL
00209 20100162 X     231 UNCONRET EQU      *--Z
00210 03304327      232 LDI     MSFPOS,X1
00211 04207          233 LOA     MSFBLK,X1
00212 77650001      234 AZJ,LT CHECEXIT
00213 14700000      235          HAS THE DEVICE BEEN UNEQUIPPED
00214 13077766      236          JUMP IF IT HAS
00215 54104264      237          GET THE CORE ADDRESS WE ARE USING
00216 20100116 X     238          SAVE ADDRESS IN HIGH Q
00217 12077760      239          LOAD THE CONNECT CODE
00218 13077771      240          EXTRACT UNIT NUMBER
00219 15700700      241          MERGE SECTOR ADD WITH CORE ADDRES
00220 54304443      242          LOAD THE ADDRESS OF THE FREE STOR
00221 20004573      243          RESTORE THE JUMP IN ASAVE
00222 53340000      244          RELOCATE INTO THE BLOCK
00223 40300000      245          SET THE RETURN ADDRESS
00224 14604243      246          SET THE RETURN ADDRESS
00225 44300006      247          ENTER IO TYPE CODE
00226 15300001      248          WE WANT SECTOR ZERO
00227 14277777 X     249          READ IN THE FIRST SECTOR
00228 14600000      250          LOAD THE FREE STORAGE BLOCK ADDRE
00229 14100100      251          LOAD A APF PCLOC INSTRUCTION
00230 00777777 X     252          STORE THE APF IN THE BLOCK
00231 20300016      253          LOAD THE RETURN ADDRESS
00232 54304443      254          AND EXIT
00233 21004600      255          *
00234 41300016      256          *
00235 54204353      257          *
00236 01300016      258          *
00237 20300016      259          *
00238 54204353      260          *

```

00242	01004406	271		UJP	BADREAD	ERROR READING IN THE LABEL
	04243	272	IORET	EQU	*-Z	
00243	47304353	273		STI	EXITADD,X3	SAVE THE RETURN
00244	54104271	274		LDI	MSFPOS,X1	LOAD THE POSITION IN MSFBLK
00245	20100207 X	275		LDA	MSFBLK,X1	
00246	03304327	276		AZJ,LT	CHECEXIT	JUMP IF DEVICE HAS BEEN UNEQUIPPED
00247	14100077	277		ENI	1008-1,X1	CHECK THE LABEL FOR PARITY
00248	14477777	278		ENA,S	-0	
00249	36104700	279		SCA	LABELBUF,X1	
00250	02504251	280		IJD	*-Z-1,X1	
00251	03104410	281		AZJ,NE	BADLABEL	JUMP IF BAD LABEL
00252	03304410	282		AZJ,LT	BADLABEL	
00253	25004700	283		LDAQ	LABELBUF+MSLIDEN	CHECK FOR PROPER LABEL
00254	33004432	284		SBAQ	OS3USER	
00255	13400000	285		SCAQ	0	
00256	03104410	286		AZJ,NE	BADLABEL	
00257	20004702	287		LDA	LABELBUF+MSLLFBN	LOAD THE USER PACK NUMBER
00258	31004434	288		SBA	NUMBER	
00259	03104410	289		AZJ,NE	BADLABEL	

AT THIS POINT WE HAVE DECIDED TO LET THE USER HAVE THE DEVICE

00264	04264		298		DKSTABX1	EQU	*-Z	ENTER THE POSITION IN DKSTAB
00265	14100000		299		ENI	IMPURE,X1	LOAD THE CONNECT CODE	
00266	20100215	X	300		LDA	DKSTATAB,X1	CLEAR THE TYPE BIT	
00267	17477077		301		ANA,S	770777B	SET IN THE REAL TYPE BIT	
00268	35004707		302		SSA	LABELBUF+MSLDEV	SAVE THE CORRECT CONNECT CODE	
00269	40100265	X	303		STA	DKSTATAB,X1		
00270	04271		304		MSFPOS	EQU	*-Z	
00271	14100000		305		ENI	IMPURE,X1	ENTER POSITION IN MSFNUMB/MSFBLK	
00272	13000030		306		SHAQ	24	SAVE CONNECT CODE IN Q	
00273	20100245	X	307		LDA	MSFBLK,X1	LOAD THE POINTER TO THE CONTROL B	
00274	53600000		308		TAI	X2+CNBLK		
00275	412D0000		309		STQ	0,X2+CNBLK	SAVE THE CONNECT CODE IN THE CONT	
00276	14600000		310		ENA	0	SET THE WALL CLOCK TIME TO	
00277	40200005		311		STA	BLKR,X2+CNBLK	ZERO FOR THE ACCOUNTING	
00278	14477776		312		ENA,S	-1		
00279	34077777	X	313		RAD	SCREAM		
00280	20004703		314		LDA	LABELBUF+MSLHFBN	TURN OFF THE NOISE	
00281	40200007		315		LOA	TFL,X2+CNBLK	LOAD THE NUMBER OF BLOCKS ON THE	
00282	15600001		316		STA	1	GENERATE AN ILLEGAL CURRENT SEEK	
00283	40200003		317		INA	CBP,X2+CNBLK		
00284	20077777	X	318		STA	AEB	LOAD THE ADDRESS ERROR BIT	
00285	35200004		319		LDA	CPP,X2+CNBLK	AND SET IT INTO THE STATUS TO	
00286	40200004		320		SSA	CPP,X2+CNBLK	FORCE THE USER TO DO A SEEK	
00287	20100060	X	321		STA	MSFNUMB,X1	LOAD THE PACK NUMBER	
00288	40200001		322		LDA	LP,X2+CNBLK	SAVE IN THE CONTROL BLOCK	
00289	35077777	X	323		STA	BIT22	REMEMBER THE PACK NUMBER	
00290	40100311	X	324		SSA	MSFNUMB,X1	TO PREVENT SOME ELSE WANTING THE	
00291	37077777	X	325		STA	NBIT22	SAME PACK	
00292	14100004		326		LPA	4,X1		
00293	13077747		327		ENI	-24		
00294	51077777	X	328		SHAQ	D10		
00295	43422330	04466 0	329		DVA	SQCH	DEVOK,X1	
00296	02504317		330		IJD	*-Z-3,X1		
00297	11022316	04463 2	331					
00298	14700030		332					
00299	04325		333		ECHA	DEVOKMES		
00300	14204327		334		ENQ	DEVOKMSL		
00301	01077777	X	335		CALLOP	EQU	*-Z	
00302	04327		336		ENI	*-Z+2,X2		
00303	04327		337		UJP	OPMSG	PRINT OUT DEVICE IS MOUNTED	
00304	04327		338					
00305	04327		339		CHECEXIT	EQU	*-Z	
00306	00704507		340		RTJ	CHECKUN	HAVE ANY DEVICES BEEN UNEQUIPPED	

00330	20004443	341	LDA	FREEBLK	FREE THE BLOCK OF FREE STORAGE
00331	14300004	342	ENI	4,X3	
00332	04600000	343	ASE	0	SKIP IF WE NEVER ASKED FOR THE ST
00333	00777777 X	344	RTJ	FREEMEM	FORGET WE EVER HAD IT
00334	47004443	345	STI	FREEBLK,0	LOAD THE ADDRESS OF THE REQUEST M
00335	20004445	346	LDA	BUFFADD	
00336	14300005	347	ENI	5,X3	SKIP IF NO BLOCK PRESENT
00337	04600000	348	ASE	0	
00340	00700333 X	349	RTJ	FREEMEM	
00341	47004445	350	STI	BUFFADD,0	
		351			
00342	14377777 X	352	ENI	IDLE,X3+PSA	START WITH IDLE AND CLEAR
00343	53130035	353	TMI	NU,X1	MOUNTING WAIT FOR ALL USERS
00344	01004351	354	UJP	*-Z+5	
00345	14477777 X	355	ENA,S	NMTWAIT	
00346	00777777 X	356	RTJ	IOCLEAR	ADVANCE TO THE NEXT USER
00347	20300003	357	LDA	0,X3+PSA	
00350	53700000	358	TAI	X3+PSA	
00351	02504345	359	IJD	*-Z-4,X1	
		360			
00352	04352	361	EXITPF1	EQU	TELL OPMSG WHAT TO PUT IN THE
00353	14600000	362		ENA	PAGE FILE
00353	04353	363	EXITADD	EQU	
00353	14300000	364		ENI	ENTER THE RETURN ADDRESS
00354	01077777 X	365		UJP	NOW EXIT

```

04355 01000300
00356 54104264
00357 20100270 X
00360 12077760
00361 53600000
00362 17200037
00363 14477777
00364 40200112 X
00365 01004370
00366 20100357 X
00367 40177777 X
00370 10100070 X
00371 01004366
00372 54104271
00373 20100273 X
00374 53500000
00375 14477760
00376 40100000
00377 01004355

```

```

368 * ****
369 * ROUTINE TO CHANGE THE TABLES SO THAT A UNIT IS TAKEN OFF LINE
370 * RETURNS WITH CNBLK POINTER IN X1
371 * ****
372 *
374
375
376 TAKEOFF EQU *-Z
377 UJP IMPURE
378 LDI DKSTATAB,X1
379 LDA DKSTATAB,X1
380 SHA -15
381 TAI X2
382 ANI 378,X2
383 ENA,S 77777B
384 STA ARRAYTBL,X2
385 UJP *-Z+3
386 LDA DKSTATAB,X1
387 STA DKSTATM1,X1
388 ISI OKSTATBL,X1
389 UJP *-Z-3
390 LUI MSFPOS,X1
391 LDA MSFBLK,X1
392 TAI X1+CNBLK
393 ENA,S 77760B
394 STA 0,X1+CNBLK
395 UJP TAKEOFF
396
397
398
399
400 LACHIT EQU *-Z
401 LACHADD EQU *-Z
402 LACH IMPURE,X1
403 IJI LACHIT,X1
404
405
406
407 ERROR EQU *-Z
408 ECHA NOACCEPT
409 ENQ NOACCEPL
410 UJP CALLOP

```

LOAD POINTER INTO DKSTATAB
LOAD THE CONNECT CODE
EXTRACT THE DEVICE NUMBER FROM IT
SAY DEVICE IS NOT ON LINE
LOAD A CONNECT CODE
REPLACE PREVIOUS ENTRY
SKIP IF DONE
TELL THE CONTROL BLOCK THAT IT
WAS NOT MOUNTED
SAY WE ARE IGNORING THE REQUEST

00406	04406
00407	47304353
	14300000
00410	04410
00411	54104444
00412	00704400
00413	04600073
00414	01004426
00415	14200007
00416	20204432
00417	40204700
00418	02604415
00419	00704400
00420	14700026
00421	03404264
00422	14700043
00423	04300000
00424	03404264
00425	04426
00426	00704355
00427	11022403
00428	04500 3
00429	14700027
00430	01004325
00431	
	04432
	04432
00432	46620360
	04434
00434	00000000
00435	00077340
00436	00000000
00437	00000000
00438	00000000
00439	00000000
00440	00000000
00441	00000000
	00010

```

412   ****
413   * THIS ROUTINE IS ENTERED WHEN A FATAL DISK ERROR OCCURES WHEN *
414   * READING A DISK LABEL OR WHEN A LABEL IS BAD. IT CHECKS TO      *
415   * SEE IF THE OPERATOR INSTRUCTED THAT A LABEL BE WRITTEN OR      *
416   * FAKED
417   ****

419
420
421   BADREAD EQU    *--Z
422   STI     EXITADD,X3
423   ENI     0,X3
424   BADLABEL EQU    *--Z
425   LDI     CHARPOS,X1
426   RTJ     LACHIT
427   ASE     HZ,#      SAVE THE RETURN ADDRESS
428   UJP     BAOPRINT
429   ENI     MOVEL-1,X2
430   LDA     MOVE,X2
431   STA     LABELBUF,X2
432   IJO     *--Z-2,X2
433   RTJ     LACHIT
434   ENQ     H#F#
435   AQJ,EQ  OKSTABX1
436   ENQ     H#L#
437   ISE     0,X3
438   AQJ,EQ  OKSTABX1
439   EQU     *--Z
440   RTJ     TAKEOFF
441   ECHA   LABMESS
442   ENQ     LABMESSL
443   UJP     CALLOP
444
445
446   MOVE    EQU    *--Z
447   OS3USER EQU    *--Z
448   SCD     2,OS3 USER
449   NUMBER  EQU    *--Z
450   VFO     A24/IMPURE
451   DEC     203*160
452   OCT     0
453   OCT     0
454   OCT     0
455   OCT     0
456   MOVEL  EQU    *--Z-MOVE

```

NUMBER OF SECTORS ON AN 854
CODE FOR AN 854

00442	04442 22211 22212 22213	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	CONCODE EQU VFD CHANNEL EQU,C EQUIPMEN EQU,C UNIT EQU,C FREEBLK EQU VFD CHARPOS EQU VFD BUFFADD EQU VFD NOACCEPT EQU,C NOACCEPL EQU,C DEVUNEQM EQU,C DEVUNEQ EQU,C DEVUNEQL EQU,C DEVOKMES EQU,C DEVOK EQU,C DEVOKMSL EQU,C CANTCON EQU,C CANTCONL EQU,C LABMESS EQU,C LABMESSL EQU,C BSS	*-Z A24/IMPURE CONCODE+CONCODE+CONCODE+CONCODE+1 CHANNEL+1 EQUIPMEN+1 *-Z 09/000,A15/IMPURE *-Z 09/000,A15/IMPURE *-Z 09/000,A15/IMPURE *-Z 33,ERROR IN DISK PACK MOUNT REQUEST^ *-Z-NOACCEPT *-Z 10,DISK PACK *-Z 11,XXXXX FREE^ *-Z-DEVUNEQM *-Z 10,DISK PACK *-Z 14,XXXXX ON LINE^ *-Z-DEVOKMES *-Z 29,CAN NOT CONNECT TO DISK PACK^ *-Z-CANTCON *-Z 23,BAD LABEL ON DISK PACK^ *-Z-LABMESS 0
00443	04443	465 466	ADDRESS OF THE FREE STORAGE BLOCK IF IT HAS BEEN OBTAINED	
00444	04444	468 469	09/000,A15/IMPURE	
00445	04445	471 472	09/000,A15/IMPURE	
00446	22230 25515146 00041	474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496	NOACCEPT EQU,C BCD,C NOACCEPL EQU,C DEVUNEQM EQU,C BCD,C DEVUNEQ EQU,C BCD,C DEVUNEQL EQU,C BCD,C DEVOKMES EQU,C BCD,C DEVOK EQU,C BCD,C DEVOKMSL EQU,C EQU,C CANTCON EQU,C BCD,C CANTCONL EQU,C EQU,C LABMESS EQU,C BCD,C LABMESSL EQU,C EQU,C BSS	33,ERROR IN DISK PACK MOUNT REQUEST^ *-Z-NOACCEPT *-Z 10,DISK PACK *-Z 11,XXXXX FREE^ *-Z-DEVUNEQM *-Z 10,DISK PACK *-Z 14,XXXXX ON LINE^ *-Z-DEVOKMES *-Z 29,CAN NOT CONNECT TO DISK PACK^ *-Z-CANTCON *-Z 23,BAD LABEL ON DISK PACK^ *-Z-LABMESS 0
00456	22271 77243162	477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496	DEVUNEQM EQU,C BCD,C DEVUNEQ EQU,C BCD,C DEVUNEQL EQU,C BCD,C DEVOKMES EQU,C BCD,C DEVOK EQU,C BCD,C DEVOKMSL EQU,C EQU,C CANTCON EQU,C BCD,C CANTCONL EQU,C EQU,C LABMESS EQU,C BCD,C LABMESSL EQU,C EQU,C BSS	10,DISK PACK *-Z 11,XXXXX FREE^ *-Z-DEVUNEQM *-Z 10,DISK PACK *-Z 14,XXXXX ON LINE^ *-Z-DEVOKMES *-Z 29,CAN NOT CONNECT TO DISK PACK^ *-Z-CANTCON *-Z 23,BAD LABEL ON DISK PACK^ *-Z-LABMESS 0
00460	22303 23426067 00025	477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496	DEVUNEQM EQU,C BCD,C DEVUNEQ EQU,C BCD,C DEVUNEQL EQU,C BCD,C DEVOKMES EQU,C BCD,C DEVOK EQU,C BCD,C DEVOKMSL EQU,C EQU,C CANTCON EQU,C BCD,C CANTCONL EQU,C EQU,C LABMESS EQU,C BCD,C LABMESSL EQU,C EQU,C BSS	10,DISK PACK *-Z 11,XXXXX FREE^ *-Z-DEVUNEQM *-Z 10,DISK PACK *-Z 14,XXXXX ON LINE^ *-Z-DEVOKMES *-Z 29,CAN NOT CONNECT TO DISK PACK^ *-Z-CANTCON *-Z 23,BAD LABEL ON DISK PACK^ *-Z-LABMESS 0
00463	22316 25772431	477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496	DEVUNEQM EQU,C BCD,C DEVUNEQ EQU,C BCD,C DEVUNEQL EQU,C BCD,C DEVOKMES EQU,C BCD,C DEVOK EQU,C BCD,C DEVOKMSL EQU,C EQU,C CANTCON EQU,C BCD,C CANTCONL EQU,C EQU,C LABMESS EQU,C BCD,C LABMESSL EQU,C EQU,C BSS	10,DISK PACK *-Z 11,XXXXX FREE^ *-Z-DEVUNEQM *-Z 10,DISK PACK *-Z 14,XXXXX ON LINE^ *-Z-DEVOKMES *-Z 29,CAN NOT CONNECT TO DISK PACK^ *-Z-CANTCON *-Z 23,BAD LABEL ON DISK PACK^ *-Z-LABMESS 0
00466	22330 67676767 00030	477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496	DEVUNEQM EQU,C BCD,C DEVUNEQ EQU,C BCD,C DEVUNEQL EQU,C BCD,C DEVOKMES EQU,C BCD,C DEVOK EQU,C BCD,C DEVOKMSL EQU,C EQU,C CANTCON EQU,C BCD,C CANTCONL EQU,C EQU,C LABMESS EQU,C BCD,C LABMESSL EQU,C EQU,C BSS	10,DISK PACK *-Z 11,XXXXX FREE^ *-Z-DEVUNEQM *-Z 10,DISK PACK *-Z 14,XXXXX ON LINE^ *-Z-DEVOKMES *-Z 29,CAN NOT CONNECT TO DISK PACK^ *-Z-CANTCON *-Z 23,BAD LABEL ON DISK PACK^ *-Z-LABMESS 0
00471	22346 25772321 00035	477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496	DEVUNEQM EQU,C BCD,C DEVUNEQ EQU,C BCD,C DEVUNEQL EQU,C BCD,C DEVOKMES EQU,C BCD,C DEVOK EQU,C BCD,C DEVOKMSL EQU,C EQU,C CANTCON EQU,C BCD,C CANTCONL EQU,C EQU,C LABMESS EQU,C BCD,C LABMESSL EQU,C EQU,C BSS	10,DISK PACK *-Z 11,XXXXX FREE^ *-Z-DEVUNEQM *-Z 10,DISK PACK *-Z 14,XXXXX ON LINE^ *-Z-DEVOKMES *-Z 29,CAN NOT CONNECT TO DISK PACK^ *-Z-CANTCON *-Z 23,BAD LABEL ON DISK PACK^ *-Z-LABMESS 0
00500	22403 23427722 00027	477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496	DEVUNEQM EQU,C BCD,C DEVUNEQ EQU,C BCD,C DEVUNEQL EQU,C BCD,C DEVOKMES EQU,C BCD,C DEVOK EQU,C BCD,C DEVOKMSL EQU,C EQU,C CANTCON EQU,C BCD,C CANTCONL EQU,C EQU,C LABMESS EQU,C BCD,C LABMESSL EQU,C EQU,C BSS	10,DISK PACK *-Z 11,XXXXX FREE^ *-Z-DEVUNEQM *-Z 10,DISK PACK *-Z 14,XXXXX ON LINE^ *-Z-DEVOKMES *-Z 29,CAN NOT CONNECT TO DISK PACK^ *-Z-CANTCON *-Z 23,BAD LABEL ON DISK PACK^ *-Z-LABMESS 0
00506		477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496	DEVUNEQM EQU,C BCD,C DEVUNEQ EQU,C BCD,C DEVUNEQL EQU,C BCD,C DEVOKMES EQU,C BCD,C DEVOK EQU,C BCD,C DEVOKMSL EQU,C EQU,C CANTCON EQU,C BCD,C CANTCONL EQU,C EQU,C LABMESS EQU,C BCD,C LABMESSL EQU,C EQU,C BSS	10,DISK PACK *-Z 11,XXXXX FREE^ *-Z-DEVUNEQM *-Z 10,DISK PACK *-Z 14,XXXXX ON LINE^ *-Z-DEVOKMES *-Z 29,CAN NOT CONNECT TO DISK PACK^ *-Z-CANTCON *-Z 23,BAD LABEL ON DISK PACK^ *-Z-LABMESS 0

499 * THIS CODE WILL CHECK FOR DEVICES THAT HAVE BEEN UNEQUIPPED
 500 * AND MAKE ANY CHANGES TO THE TABLES THAT ARE REQUIRED
 501 *
 502 * ****
 504
 505
 506 CHECKUN EQU *-Z
 507 UJP IMPURE
 508 CHECKUN1 EQU *-Z
 509 LDA BIT23
 510 LDQ BIT23
 511 ENI MSUNITS,X1
 512 MEQ MSFBLK,1
 513 UJP CHECKUN
 514 TIA X1
 515 TAI X3
 516 LUA MSFBLK,X1
 517 TAI X2+CNBLK
 518 LDA 0,X2+CNBLK
 519 ENQ,S 77760B
 520 AQJ,EQ CHECKUN8
 521 ENQ 777778
 522 LOL 0,X2+CNBLK
 523 ENI DKSTATBL,X1
 524 MEQ DKSTATAB,1
 525 HLT *-Z
 526 LOA DKSTATAB,X1
 527 UJP *-Z+3
 528 LOQ DKSTATAB,X1
 529 STQ DKSTATM1,X1
 530 ISI DKSTATBL,X1
 531 UJP *-Z-3
 532 SHA -15
 533 TAI X1
 534 ANI 37B,X1
 535 ENA,S 777778
 536 STA ARRAYTBL,X1
 537 LDA LP,X2+CNBLK
 538 UJP CHECKUN9
 539 EQU *-Z
 540 ENA 0
 541 STA BLKR,X2+CNBLK
 542 ENA,S -1
 543 RAD SCREAM
 544 LOA MSFNUMB,X3
 545 EQU *-Z
 546 ENQ 0
 547 STQ MSFNUMB,X3
 548 STQ MSFBLK,X3
 549 ANA 777778
 550 ENI 4,X1
 551 SHAQ -24
 552 DVA O10
 553 SQCH DEVUNEQ,X1
 554 IJD *-Z-3,X1
 555 ENI 3,X3
 556 TIA X2+CNBLK
 557 RTJ FREEMEM
 558 ENI CHECKUN1,X2
 559 ECHA DEVUNEQM
 560 ENQ DEVUNEQL
 561 UJP OPMMSG
 562 *-Z
 563 *-Z
 564 *-Z
 565 *-Z
 566 *-Z
 567 *-Z
 568 *-Z
 569 *-Z
 570 *-Z
 571 *-Z
 572 *-Z
 573 *-Z
 574 *-Z
 575 *-Z
 576 *-Z
 577 *-Z
 578 *-Z
 579 *-Z
 580 *-Z
 581 *-Z
 582 *-Z
 583 *-Z
 584 *-Z
 585 *-Z
 586 *-Z
 587 *-Z
 588 *-Z
 589 *-Z
 590 *-Z
 591 *-Z
 592 *-Z
 593 *-Z
 594 *-Z
 595 *-Z
 596 *-Z
 597 *-Z
 598 *-Z
 599 *-Z
 600 *-Z
 601 *-Z
 602 *-Z
 603 *-Z
 604 *-Z
 605 *-Z
 606 *-Z
 607 *-Z
 608 *-Z
 609 *-Z
 610 *-Z
 611 *-Z
 612 *-Z
 613 *-Z
 614 *-Z
 615 *-Z
 616 *-Z
 617 *-Z
 618 *-Z
 619 *-Z
 620 *-Z
 621 *-Z
 622 *-Z
 623 *-Z
 624 *-Z
 625 *-Z
 626 *-Z
 627 *-Z
 628 *-Z
 629 *-Z
 630 *-Z
 631 *-Z
 632 *-Z
 633 *-Z
 634 *-Z
 635 *-Z
 636 *-Z
 637 *-Z
 638 *-Z
 639 *-Z
 640 *-Z
 641 *-Z
 642 *-Z
 643 *-Z
 644 *-Z
 645 *-Z
 646 *-Z
 647 *-Z
 648 *-Z
 649 *-Z
 650 *-Z
 651 *-Z
 652 *-Z
 653 *-Z
 654 *-Z
 655 *-Z
 656 *-Z
 657 *-Z
 658 *-Z
 659 *-Z
 660 *-Z
 661 *-Z
 662 *-Z
 663 *-Z
 664 *-Z
 665 *-Z
 666 *-Z
 667 *-Z
 668 *-Z
 669 *-Z
 670 *-Z
 671 *-Z
 672 *-Z
 673 *-Z
 674 *-Z
 675 *-Z
 676 *-Z
 677 *-Z
 678 *-Z
 679 *-Z
 680 *-Z
 681 *-Z
 682 *-Z
 683 *-Z
 684 *-Z
 685 *-Z
 686 *-Z
 687 *-Z
 688 *-Z
 689 *-Z
 690 *-Z
 691 *-Z
 692 *-Z
 693 *-Z
 694 *-Z
 695 *-Z
 696 *-Z
 697 *-Z
 698 *-Z
 699 *-Z
 700 *-Z
 701 *-Z
 702 *-Z
 703 *-Z
 704 *-Z
 705 *-Z
 706 *-Z
 707 *-Z
 708 *-Z
 709 *-Z
 710 *-Z
 711 *-Z
 712 *-Z
 713 *-Z
 714 *-Z
 715 *-Z
 716 *-Z
 717 *-Z
 718 *-Z
 719 *-Z
 720 *-Z
 721 *-Z
 722 *-Z
 723 *-Z
 724 *-Z
 725 *-Z
 726 *-Z
 727 *-Z
 728 *-Z
 729 *-Z
 730 *-Z
 731 *-Z
 732 *-Z
 733 *-Z
 734 *-Z
 735 *-Z
 736 *-Z
 737 *-Z
 738 *-Z
 739 *-Z
 740 *-Z
 741 *-Z
 742 *-Z
 743 *-Z
 744 *-Z
 745 *-Z
 746 *-Z
 747 *-Z
 748 *-Z
 749 *-Z
 750 *-Z
 751 *-Z
 752 *-Z
 753 *-Z
 754 *-Z
 755 *-Z
 756 *-Z
 757 *-Z
 758 *-Z
 759 *-Z
 760 *-Z
 761 *-Z
 762 *-Z
 763 *-Z
 764 *-Z
 765 *-Z
 766 *-Z
 767 *-Z
 768 *-Z
 769 *-Z
 770 *-Z
 771 *-Z
 772 *-Z
 773 *-Z
 774 *-Z
 775 *-Z
 776 *-Z
 777 *-Z
 778 *-Z
 779 *-Z
 780 *-Z
 781 *-Z
 782 *-Z
 783 *-Z
 784 *-Z
 785 *-Z
 786 *-Z
 787 *-Z
 788 *-Z
 789 *-Z
 790 *-Z
 791 *-Z
 792 *-Z
 793 *-Z
 794 *-Z
 795 *-Z
 796 *-Z
 797 *-Z
 798 *-Z
 799 *-Z
 800 *-Z
 801 *-Z
 802 *-Z
 803 *-Z
 804 *-Z
 805 *-Z
 806 *-Z
 807 *-Z
 808 *-Z
 809 *-Z
 810 *-Z
 811 *-Z
 812 *-Z
 813 *-Z
 814 *-Z
 815 *-Z
 816 *-Z
 817 *-Z
 818 *-Z
 819 *-Z
 820 *-Z
 821 *-Z
 822 *-Z
 823 *-Z
 824 *-Z
 825 *-Z
 826 *-Z
 827 *-Z
 828 *-Z
 829 *-Z
 830 *-Z
 831 *-Z
 832 *-Z
 833 *-Z
 834 *-Z
 835 *-Z
 836 *-Z
 837 *-Z
 838 *-Z
 839 *-Z
 840 *-Z
 841 *-Z
 842 *-Z
 843 *-Z
 844 *-Z
 845 *-Z
 846 *-Z
 847 *-Z
 848 *-Z
 849 *-Z
 850 *-Z
 851 *-Z
 852 *-Z
 853 *-Z
 854 *-Z
 855 *-Z
 856 *-Z
 857 *-Z
 858 *-Z
 859 *-Z
 860 *-Z
 861 *-Z
 862 *-Z
 863 *-Z
 864 *-Z
 865 *-Z
 866 *-Z
 867 *-Z
 868 *-Z
 869 *-Z
 870 *-Z
 871 *-Z
 872 *-Z
 873 *-Z
 874 *-Z
 875 *-Z
 876 *-Z
 877 *-Z
 878 *-Z
 879 *-Z
 880 *-Z
 881 *-Z
 882 *-Z
 883 *-Z
 884 *-Z
 885 *-Z
 886 *-Z
 887 *-Z
 888 *-Z
 889 *-Z
 890 *-Z
 891 *-Z
 892 *-Z
 893 *-Z
 894 *-Z
 895 *-Z
 896 *-Z
 897 *-Z
 898 *-Z
 899 *-Z
 900 *-Z
 901 *-Z
 902 *-Z
 903 *-Z
 904 *-Z
 905 *-Z
 906 *-Z
 907 *-Z
 908 *-Z
 909 *-Z
 910 *-Z
 911 *-Z
 912 *-Z
 913 *-Z
 914 *-Z
 915 *-Z
 916 *-Z
 917 *-Z
 918 *-Z
 919 *-Z
 920 *-Z
 921 *-Z
 922 *-Z
 923 *-Z
 924 *-Z
 925 *-Z
 926 *-Z
 927 *-Z
 928 *-Z
 929 *-Z
 930 *-Z
 931 *-Z
 932 *-Z
 933 *-Z
 934 *-Z
 935 *-Z
 936 *-Z
 937 *-Z
 938 *-Z
 939 *-Z
 940 *-Z
 941 *-Z
 942 *-Z
 943 *-Z
 944 *-Z
 945 *-Z
 946 *-Z
 947 *-Z
 948 *-Z
 949 *-Z
 950 *-Z
 951 *-Z
 952 *-Z
 953 *-Z
 954 *-Z
 955 *-Z
 956 *-Z
 957 *-Z
 958 *-Z
 959 *-Z
 960 *-Z
 961 *-Z
 962 *-Z
 963 *-Z
 964 *-Z
 965 *-Z
 966 *-Z
 967 *-Z
 968 *-Z
 969 *-Z
 970 *-Z
 971 *-Z
 972 *-Z
 973 *-Z
 974 *-Z
 975 *-Z
 976 *-Z
 977 *-Z
 978 *-Z
 979 *-Z
 980 *-Z
 981 *-Z
 982 *-Z
 983 *-Z
 984 *-Z
 985 *-Z
 986 *-Z
 987 *-Z
 988 *-Z
 989 *-Z
 990 *-Z
 991 *-Z
 992 *-Z
 993 *-Z
 994 *-Z
 995 *-Z
 996 *-Z
 997 *-Z
 998 *-Z
 999 *-Z
 000 *-Z
 001 *-Z
 002 *-Z
 003 *-Z
 004 *-Z
 005 *-Z
 006 *-Z
 007 *-Z
 008 *-Z
 009 *-Z
 010 *-Z
 011 *-Z
 012 *-Z
 013 *-Z
 014 *-Z
 015 *-Z
 016 *-Z
 017 *-Z
 018 *-Z
 019 *-Z
 020 *-Z
 021 *-Z
 022 *-Z
 023 *-Z
 024 *-Z
 025 *-Z
 026 *-Z
 027 *-Z
 028 *-Z
 029 *-Z
 030 *-Z
 031 *-Z
 032 *-Z
 033 *-Z
 034 *-Z
 035 *-Z
 036 *-Z
 037 *-Z
 038 *-Z
 039 *-Z
 040 *-Z
 041 *-Z
 042 *-Z
 043 *-Z
 044 *-Z
 045 *-Z
 046 *-Z
 047 *-Z
 048 *-Z
 049 *-Z
 050 *-Z
 051 *-Z
 052 *-Z
 053 *-Z
 054 *-Z
 055 *-Z
 056 *-Z
 057 *-Z
 058 *-Z
 059 *-Z
 060 *-Z
 061 *-Z
 062 *-Z
 063 *-Z
 064 *-Z
 065 *-Z
 066 *-Z
 067 *-Z
 068 *-Z
 069 *-Z
 070 *-Z
 071 *-Z
 072 *-Z
 073 *-Z
 074 *-Z
 075 *-Z
 076 *-Z
 077 *-Z
 078 *-Z
 079 *-Z
 080 *-Z
 081 *-Z
 082 *-Z
 083 *-Z
 084 *-Z
 085 *-Z
 086 *-Z
 087 *-Z
 088 *-Z
 089 *-Z
 090 *-Z
 091 *-Z
 092 *-Z
 093 *-Z
 094 *-Z
 095 *-Z
 096 *-Z
 097 *-Z
 098 *-Z
 099 *-Z
 100 *-Z
 101 *-Z
 102 *-Z
 103 *-Z
 104 *-Z
 105 *-Z
 106 *-Z
 107 *-Z
 108 *-Z
 109 *-Z
 110 *-Z
 111 *-Z
 112 *-Z
 113 *-Z
 114 *-Z
 115 *-Z
 116 *-Z
 117 *-Z
 118 *-Z
 119 *-Z
 120 *-Z
 121 *-Z
 122 *-Z
 123 *-Z
 124 *-Z
 125 *-Z
 126 *-Z
 127 *-Z
 128 *-Z
 129 *-Z
 130 *-Z
 131 *-Z
 132 *-Z
 133 *-Z
 134 *-Z
 135 *-Z
 136 *-Z
 137 *-Z
 138 *-Z
 139 *-Z
 140 *-Z
 141 *-Z
 142 *-Z
 143 *-Z
 144 *-Z
 145 *-Z
 146 *-Z
 147 *-Z
 148 *-Z
 149 *-Z
 150 *-Z
 151 *-Z
 152 *-Z
 153 *-Z
 154 *-Z
 155 *-Z
 156 *-Z
 157 *-Z
 158 *-Z
 159 *-Z
 160 *-Z
 161 *-Z
 162 *-Z
 163 *-Z
 164 *-Z
 165 *-Z
 166 *-Z
 167 *-Z
 168 *-Z
 169 *-Z
 170 *-Z
 171 *-Z
 172 *-Z
 173 *-Z
 174 *-Z
 175 *-Z
 176 *-Z
 177 *-Z
 178 *-Z
 179 *-Z
 180 *-Z
 181 *-Z
 182 *-Z
 183 *-Z
 184 *-Z
 185 *-Z
 186 *-Z
 187 *-Z
 188 *-Z
 189 *-Z
 190 *-Z
 191 *-Z
 192 *-Z
 193 *-Z
 194 *-Z
 195 *-Z
 196 *-Z
 197 *-Z
 198 *-Z
 199 *-Z
 200 *-Z
 201 *-Z
 202 *-Z
 203 *-Z
 204 *-Z
 205 *-Z
 206 *-Z
 207 *-Z
 208 *-Z
 209 *-Z
 210 *-Z
 211 *-Z
 212 *-Z
 213 *-Z
 214 *-Z
 215 *-Z
 216 *-Z
 217 *-Z
 218 *-Z
 219 *-Z
 220 *-Z
 221 *-Z
 222 *-Z
 223 *-Z
 224 *-Z
 225 *-Z
 226 *-Z
 227 *-Z
 228 *-Z
 229 *-Z
 230 *-Z
 231 *-Z
 232 *-Z
 233 *-Z
 234 *-Z
 235 *-Z
 236 *-Z
 237 *-Z
 238 *-Z
 239 *-Z
 240 *-Z
 241 *-Z
 242 *-Z
 243 *-Z
 244 *-Z
 245 *-Z
 246 *-Z
 247 *-Z
 248 *-Z
 249 *-Z
 250 *-Z
 251 *-Z
 252 *-Z
 253 *-Z
 254 *-Z
 255 *-Z
 256 *-Z
 257 *-Z
 258 *-Z
 259 *-Z
 260 *-Z
 261 *-Z
 262 *-Z
 263 *-Z
 264 *-Z
 265 *-Z
 266 *-Z
 267 *-Z
 268 *-Z
 269 *-Z
 270 *-Z
 271 *-Z
 272 *-Z
 273 *-Z
 274 *-Z
 275 *-Z
 276 *-Z
 277 *-Z
 278 *-Z
 279 *-Z
 280 *-Z
 281 *-Z
 282 *-Z
 283 *-Z
 284 *-Z
 285 *-Z
 286 *-Z
 287 *-Z
 288 *-Z
 289 *-Z
 290 *-Z
 291 *-Z
 292 *-Z
 293 *-Z
 294 *-Z
 295 *-Z
 296 *-Z
 297 *-Z
 298 *-Z
 299 *-Z
 300 *-Z
 301 *-Z
 302 *-Z
 303 *-Z
 304 *-Z
 305 *-Z
 306 *-Z
 307 *-Z
 308 *-Z
 309 *-Z
 310 *-Z
 311 *-Z
 312 *-Z
 313 *-Z
 314 *-Z
 315 *-Z
 316 *-Z
 317 *-Z
 318 *-Z
 319 *-Z
 320 *-Z
 321 *-Z
 322 *-Z
 323 *-Z
 324 *-Z
 325 *-Z
 326 *-Z
 327 *-Z
 328 *-Z
 329 *-Z
 330 *-Z
 331 *-Z
 332 *-Z
 333 *-Z
 334 *-Z
 335 *-Z
 336 *-Z
 337 *-Z
 338 *-Z
 339 *-Z
 340 *-Z
 341 *-Z
 342 *-Z
 343 *-Z
 344 *-Z
 345 *-Z
 346 *-Z
 347 *-Z
 348 *-Z
 349 *-Z
 350 *-Z
 351 *-Z
 352 *-Z
 353 *-Z
 354 *-Z
 355 *-Z
 356 *-Z
 357 *-Z
 358 *-Z
 359 *-Z
 360 *-Z
 361 *-Z
 362 *-Z
 363 *-Z
 364 *-Z
 365 *-Z
 366 *-Z
 367 *-Z
 368 *-Z
 369 *-Z
 370 *-Z
 371 *-Z
 372 *-Z
 373 *-Z
 374 *-Z
 375 *-Z
 376 *-Z
 377 *-Z
 378 *-Z
 379 *-Z
 380 *-Z
 381 *-Z
 382 *-Z
 383 *-Z
 384 *-Z
 385 *-Z
 386 *-Z
 387 *-Z
 388 *-Z
 389 *-Z
 390 *-Z
 391 *-Z
 392 *-Z
 393 *-Z
 394 *-Z
 395 *-Z
 396 *-Z
 397 *-Z
 398 *-Z
 399 *-Z
 400 *-Z
 401 *-Z
 402 *-Z
 403 *-Z
 404 *-Z
 405 *-Z
 406 *-Z
 407 *-Z
 408 *-Z
 409 *-Z
 410 *-Z
 411 *-Z
 412 *-Z
 413 *-Z
 414 *-Z
 415 *-Z
 416 *-Z
 417 *-Z
 418 *-Z
 419 *-Z
 420 *-Z
 421 *-Z
 422 *-Z
 423 *-Z
 424 *-Z
 425 *-Z
 426 *-Z
 427 *-Z
 428 *-Z
 429 *-Z
 430 *-Z
 431 *-Z
 432 *-Z
 433 *-Z
 434 *-Z
 435 *-Z
 436 *-Z
 437 *-Z
 438 *-Z
 439 *-Z
 440 *-Z
 441 *-Z
 442 *-Z
 443 *-Z
 444 *-Z
 445 *-Z
 446 *-Z
 447 *-Z
 44

```

564 ****
565 * THE FOLLOWING CODE IS MOVED INTO FREE STORAGE TO PROVIDE *
566 * A MEANS OF RETURNING TO THIS ROUTINE WHEN PAGE FILE ONE *
567 * DOES NOT MAP THE PAGE THE ROUTINE IS IN *
568 ****

570
571      04573
572      00000
00573 01000012   572  FREECOPY EQU    *-Z
00574 00001       573  ASAVE    EQU    *-Z-FREECOPY
00574 40000000   574  UJP     EQU    IOERR
00575 000002       575  SAVEA    EQU    *-Z-FREECOPY
00575 77650001   576  STA     EQU    ASAVE
00576 40000016   577  PFA     EQU    *-Z-FREECOPY
00576 000004       578  SETPF   EQU    PFLOC
00577 14600000   579  STA     EQU    PFSAVE
00577 04600       580  ENA     EQU    *-Z-FREECOPY
00600 77640001   581  APFLOC  EQU    IMPURE
00600 00006       582  APF     EQU    *-Z
00601 01000000   583  MAINRET EQU    PFLOC
00601 00005       584  UJP     EQU    *-Z-FREECOPY
00602 14000000   585  UJP     EQU    IMPURE
00603 01200000   586  CONCALL EQU    *-Z-FREECOPY-2
00604 01000001   587  NOP     EQU    IGNORE ANY CHANNEL INTERRUPTS
00604 00012       588  UJP     EQU    CALL WAS QUEUED
00605 40000000   589  UJP     EQU    SAVEA
00606 14477776   590  IOERR   EQU    *-Z-FREECOPY
00607 34000006   591  STA     EQU    ASAVE
00607 01000002   592  ENA,S   EQU    -1
00608 00016       593  RAD     EQU    MAINRET
00611 77640001   594  UJP     EQU    SAVEPF
00612 01200000   595  PFSAVE  EQU    *-Z-FREECOPY
00612 23354       596  APF     EQU    PFLOC+IMPURE
00613 01010001   597  UJP     EQU    0,X2
00613 00700       598  RELOCTAB EQU,C  *-Z
00613 04700       599  BCD    EQU    4,1101000001101100
01000 P          600  LABEL   EQU    700B
01000 P          601  LABELBUF EQU    4000B+LABEL
01000 P          602  ORGR   EQU    STORAGE TO READ LABEL INTO
01000 P          603  END    EQU    1000B
01000 P          604
01000 P          605
01000 P          606
01000 P          607
01000 P          608
01000 P          609
01000 P          610

```

NO LINES WITH ERRORS

* ACCWORD	X 00000	71	319 00306P						
AEB	X 04600	58	257 00236P						
APFLLOC	X 04600	582	145 00104P	152 00112P	384 00364P	536 00543P			
ARRAYTBL	X 00000	7	245 00222P	247 00224P	576 00574P	593 00605P			
ASAVE	X 00000	573	231 00253P	282 00254P	286 00260P	289 00263P			
BADLABEL	X 04410	424	428 00413P						
BADPRINT	X 04426	439	271 00242P						
BADREAD	X 04406	421	58 00000P						
BIT16	X X	8	324 00313P						
BIT22	X X	9	159 00120P	509 00510P	510 00511P				
BIT23	X X	10	312 00277P	541 00547P					
BLKR	X 00005	88	73 00000P	76 00003P	346 00335P	350 00341P			
BUFFADO	X 04445	471	223 00201P	409 00405P	443 00431P				
CALLOP	X 04325	335	206 00163P	216 00173P	220 00176P				
CALUNCON	X 04202	225	492 00500P	221 00177P					
CANTCON	X 22346	490	232 00200P						
CANTCONL	X 00035	492	318 00305P						
CBP	X 00003	76	461 00443P	105 00035P					
CHANNEL	X 22211	460	120 00054P	425 00410P					
CHARPOS	X 04444	468	77 00004P	234 00210P	276 00246P				
CHECEXIT	X 04327	339	75 00002P	340 00327P	513 00514P				
CHECKKUN	X 04507	506	558 00567P						
CHECKKUN1	X 04510	508	520 00923P						
CHECKKUN8	X 04546	539	538 00545P						
CHECKKUN9	X 04553	545	162 00123P	163 00124P	309 00274P	310 00275P	312 00277P	315 00303P	
CNBLK	X 00000	39	316 00305P	320 00307P	321 00310P	323 00312P	392 00374P	394 00376P	
CONCALL	X 00005	587	517 00520P	518 00521P	522 00525P	537 00544P	541 00547P	556 00565P	
CONCODE	X 04442	453	188 00153P	460 00443P	460 00443P	460 00443P	128 00064P	134 00072P	
CONN	X 04165	209	155 00115P	186 00151P	214 00171P				
CONNECT	X 04155	111	189 00154P						
CONRETRN	X 00002	109	182 00145P						
COREP	X 00004	73	76 00000P						
CPP	X 00004	77	320 00307P	321 00310P					
D10	X 00004	12	329 00320P	552 00561P					
DEVOK	X 22330	486	330 00321P						
DEVOKMES	X 22416	484	486 00471P	333 00323P					
DEVOKMSL	X 00030	488	334 00324P						
DEVUNEQ	X 22303	488	553 00562P						
DEVUNEQL	X 00025	482	568 00571P						
DEVUNEQM	X 22271	478	482 00463P	559 00570P					
DKCONTAB	X 04264	13	130 00066P						
DKSTABX1	X 04264	299	157 00117P	239 00214P	378 00356P	435 00422P	438 00425P		
DKSTATAB	X 04264	14	135 00073P	139 00077P	156 00116P	240 00215P	301 00265P	304 00270P	
DKSTATBL	X X	16	379 00357P	386 00366P	524 00527P	526 00531P	528 00533P		
DKSTATM1	X X	15	132 00070P	388 00370P	523 00526P	530 00535P			
EPP	X 00006	90	387 00367P	529 00534P					
EQUIPMEN	X 22212	461	462 00443P	112 00044P					
ERROR	X 04403	406	83 00012P	98 00026P	101 00031P	104 00034P	108 00040P	110 00042P	
EXITADD	X 04353	363	115 00047P	117 00051P	125 00061P	131 00067P	137 00075P	142 00102P	
EXITPF1	X 04352	361	149 00110P						
FILE	X 04443	17	74 00001P	187 00152P	200 00155P	259 00240P	273 00243P	422 00406P	
FREEBLK	X 04443	465	203 00160P						
FREECOPY	X 04573	572	254 00233P						
FREEMEM	X X	18	167 00127P	201 00156P	226 00202P	244 00221P	255 00234P	341 00330P	
GETMEM	X X	19	345 00334P						
IDLE	X X	20	573 00573P	575 00574P	577 00575P	580 00577P	584 00601P	587 00602P	
IMPURE	X 00000	41	592 00605P	598 00611P	169 00131P	245 00222P			
IOLCLEAR	X X	21	344 00333P	349 00340P	557 00566P				
IOERR	X 00012	592	352 00342P						
IORET	X 04243	272	210 00165P	300 00264P	306 00271P	362 00352P	364 00353P	377 00355P	
LABEL	X 00700	605	400 00400P	402 00401P	450 00434P	459 00442P	466 00443P	469 00444P	
LABELBUF	X 04700	606	472 00445P	507 00507P	581 00577P	585 00601P	599 00611P		
LABMESS	X 22403	493	606 00617P	243 00220P					
LABMESSL	X 00027	495	279 00251P	283 00255P	287 00261P	303 00267P	315 00302P	431 00416P	
LACHADD	X 04401	401	495 00506P	441 00427P					
LACHIT	X 04400	399	442 00430P						
LP	X 00001	72	79 00006P						
MAINRET	X 00006	584	81 00010P	94 00022P	99 00027P	102 00032P	106 00036P	109 00041P	
			113 00045P	116 00050P	403 00402P	426 00411P	433 00420P		
			183 00146P	227 00203P	249 00226P	595 00607P			

ASSEMBLER/OS3 V1.0 09/21/74 2222 PAGE 2 MSFMOUNT