

!A

LLOAD INCL.L,A\$4000

LLOAD VOLMGR.L,A\$4000

*** End of Pass 1

LLOAD INCL.L,A\$4000

LLOAD CODE1.L,A\$4000

LLOAD CODE2.L,A\$4000

LLOAD CODE3.L,A\$4000

LLOAD CODE4.L,A\$4000

LLOAD CODE5.L,A\$4000

LLOAD CODE6.L,A\$4000

LLOAD INPUT.L,A\$4000

LLOAD PRINT.L,A\$4000

LLOAD STRING.L,A\$4000

LLOAD DATA.L,A\$4000

LLOAD VOLMGR.L,A\$4000

*** End of Pass 2

```
0800      1          ttl "Volume Manager Source Code, VOLMGR.L"
0800      2          src "VOLMGR.L"
0800      3      ;
0800      4      ;
0800      5      ; VOLMGR.L
0800      6      ;
0800      7      ;
0800      8      ; Volume Manager Source Code
0800      9      ;
0800     10      ; 2024 February 14
0800     11      ;
0800     12      ;
0800     13      ; DOS 4.5, Build 06
0800     14      ;
0800     15      ; 2024 February 14
0800     16      ;
0800     17      ;
0800     18      ; Start of Source Code: 0x4000
0800     19      ; Start of Symbol List: 0x7800
0800     20      ;
0800     21      ;
0800     22      ; Copyright (c) 2024 February 14 by
0800     23      ; Walland Philip Vrbancic Jr
0800     24      ;
0800     25      ; 6223 East Peabody Street
0800     26      ; Long Beach, California 90808
0800     27      ; Unitied States of America
0800     28      ;
0800     29      ; All Rights Reserved
0800     30      ;
0800     31      ; This software is the confidential and
0800     32      ; proprietary intellectual property of
0800     33      ; Walland Philip Vrbancic Jr
0800     34      ;
0800     35      ;
0800     36          icl "INCL.L"
```

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LLOAD INCL.L,A$4000
```

```
0800          1          ttl "Volume Manager Source Code, INCL.L"
0800          2          ;
0800          3          ;
0800          4          ; INCL.L
0800          5          ;
0800          6          ;
0800          7          ; This file defines all the page zero locations, equates,
0800          8          ; memory locations, and parameters used by VOLMGR.
0800          9          ;
0800         10          ;
0000         11      LOC0          epz $00
0800         12          ;
001E         13      TEXTPTR      epz $1E
0800         14          ;
0020         15      WNDLFT        epz $20
0021         16      WNDWDTH      epz $21
0022         17      WNDTOP        epz $22
0023         18      WNDBTM        epz $23
0024         19      CH            epz $24
0025         20      CV            epz $25
0800         21          ;
0032         22      INVFLG        epz $32
0033         23      PROMPT        epz $33
0036         24      CSWL          epz $36
0800         25          ;
0076         26      ASRUN         epz $76
0800         27          ;
00D8         28      ASONERR       epz $D8
0800         29          ;
00CC         30      VALPTR        epz $CC
00CE         31      GENPTR        epz $CE
0800         32          ;
00EC         33      SLOTPTR       epz $EC
00EE         34      ROMPTR        epz $EE
0800         35          ;
00FA         36      DATAPTR       epz $FA
00FB         37      PRNTVAL       epz $FB
00FC         38      PRNTPTR       epz $FC
0800         39          ;
0800         40          enz
0800         41          ;
0000         42      ZERO          equ $00
0004         43      LBALEN        equ $04
0004         44      PARTLEN       equ $04
0004         45      TYPELEN       equ $04
0005         46      CDMSGLEN      equ $05
0006         47      DATELEN       equ $06
0006         48      DFLTIMAG      equ $06
0008         49      IDFRMLEN      equ $08
000E         50      VRSNLEN       equ $0E
000F         51      LBAMASK       equ $0F
000F         52      NIBLMASK      equ $0F
000F         53      SECMASKL      equ $0F
0010         54      SECMASKH      equ $10
0014         55      VSNLEN        equ $14
0014         56      IDSRLLEN      equ $14
0018         57      IDMDLLEN      equ $18
0018         58      NAMELEN       equ $18
00FF         59      NEGONE        equ $FF
0800         60          ;
```

```
0004      61  ERRORNDX equ $04
0800      62  ;
0000      63  MAINRAM equ $00
0001      64  HIGHRAM1 equ $01
0002      65  HIGHRAM2 equ $02
0800      66  ;
0001      67  RWTSREAD equ $01
0002      68  RWTSWRIT equ $02
0800      69  ;
000B      70  INITCMD equ $0B
0800      71  ;
0000      72  VTOCSEC equ $00
0011      73  VTOCTRK equ $11
0800      74  ;
0003      75  VOLXINC equ $03
0030      76  VOLYINC equ $30
0800      77  ;
0002      78  IDCYLOFF equ $02
0006      79  IDHDSOFF equ $06
000C      80  IDSPTOFF equ $0C      ; sectors/track
0014      81  IDSRLOFF equ $14
002E      82  IDFRMOFF equ $2E
0036      83  IDMDLOFF equ $36
0078      84  IDLBAOFF equ $78
0800      85  ;
0010      86  OFFSET0 equ $10
0018      87  IMAGSIZE equ $18
00D0      88  DRCATLBA equ $D0
0800      89  ;
0800      90  ;
0800      91  ; DOS installation values
0800      92  ;
0001      93  IMAG33 equ 1
0002      94  IMAG41L equ 2
0003      95  IMAG41H equ 3
0004      96  IMAG43H equ 4
0005      97  IMAG45L equ 5
0006      98  IMAG45H equ 6
0007      99  IMAGUSR1 equ 7
0008     100  IMAGUSR2 equ 8
0800     101  ;
0800     102  ;
0800     103  ; CFFA timing requirements
0800     104  ;
0004     105  WAIT100U equ $04
0007     106  WAIT225U equ $07
0011     107  WAIT001M equ $11
007C     108  WAIT040M equ $7C
00C5     109  WAIT100M equ $C5
0800     110  ;
0800     111  ;
0000     112  TEXTMODE equ $00
0001     113  GRPHMODE equ $01
0002     114  TX80MODE equ $02
0003     115  LV80MODE equ $03
0800     116  ;
0000     117  NORMDISP equ $00
0001     118  INVRDISP equ $01
0800     119  ;
0000     120  INITSCRN equ $00
0001     121  HOMESCRN equ $01
```

0800	122	;	
0000	123	EOLCLR	equ \$00
0001	124	EOPCLR	equ \$01
0800	125	;	
0000	126	DIRECT	equ \$00
0001	127	INDIRECT	equ \$01
0800	128	;	
0000	129	NOPAD	equ \$00
0020	130	HIGHLOW	equ \$20
0040	131	ZEROPAD	equ \$40
0080	132	SPCPAD	equ \$80
0800	133	;	
0004	134	NEXTLINE	equ \$04
0007	135	CHARCELL	equ \$07
0009	136	MAXPARTS	equ \$08+1
000F	137	PCMDMASK	equ \$0F
001F	138	CVMASK	equ \$1F
0028	139	MAXWDTH	equ \$28
0032	140	MAXTRKS	equ \$32
0050	141	MAXCH	equ \$50
0060	142	MINCV	equ \$60
0061	143	MAXCMD	equ \$60+1
007F	144	INVRMASK	equ \$7F
0080	145	ASCIFLAG	equ \$80
0080	146	MSBMASK	equ \$80
0800	147	;	
0050	148	RTNCMD	equ \$50
0051	149	MODECMD	equ \$51
0052	150	DISPCMD	equ \$52
0053	151	SCRNCMD	equ \$53
0054	152	CLRCMD	equ \$54
0055	153	CNTRCMD	equ \$55
0056	154	BUFRCMD	equ \$56
0057	155	NIBLCMD	equ \$57
0058	156	BYT1CMD	equ \$58
0059	157	BYT2CMD	equ \$59
005A	158	BYTNCMD	equ \$5A
005B	159	ADRCMD	equ \$5B
005C	160	DEC1CMD	equ \$5C
005D	161	DEC2CMD	equ \$5D
005E	162	DEC3CMD	equ \$5E
005F	163	DECNCMD	equ \$5F
0800	164	;	
0060	165	FLASH	equ \$60
0084	166	CTRLD	equ \$84
0087	167	BELLCHAR	equ \$87
0088	168	LARROW	equ \$88
008A	169	DARROW	equ \$8A
008B	170	UARROW	equ \$8B
008D	171	RETURN	equ \$8D
0091	172	CTRLQ	equ \$91
0095	173	RARROW	equ \$95
009B	174	ESCAPE	equ \$9B
00A0	175	SPACE	equ \$A0
00A5	176	PERCENT	equ \$A5
00AD	177	MINUS	equ \$AD
00AE	178	PERIOD	equ \$AE
00BF	179	QUESTION	equ \$BF
00DF	180	LWRMASK	equ \$DF
00E0	181	LWRCASE	equ \$E0
00FC	182	BAR	equ \$FC

```
00FF      183  DELETE      equ  $FF
0800      184  ;
0020      185  ATA_READ   equ  $20
0030      186  ATA_WRIT   equ  $30
00EC      187  ATA_ID     equ  $EC
0800      188  ;
0100      189  OFFSET1    equ  $100
0100      190  PAGESIZE   equ  $100
0100      191  STACK      equ  $100
0800      192  ;
0300      193  VOLSIZE    equ  $300
0300      194  DRVSIZ     equ  $300          ; divided by 0x100
0800      195  ;
03D0      196  DOSWARM     equ  $3D0
03D3      197  DOSCOLD     equ  $3D3
03D6      198  CALLFM      equ  $3D6
03D9      199  CALLRWTS    equ  $3D9
03DC      200  GETFMCB     equ  $3DC
03E1      201  RDCLKVSN    equ  $3E1
03EA      202  HOOKDOS     equ  $3EA
03E8      203  PRTERADR    equ  $3E8
0800      204  ;
07D0      205  LINE23      equ  $7D0
0800      206  ;
0045      207  DOS4VRSN    equ  $45          ; DOS 4.X build version
0006      208  DOS4BLD     equ  $06          ; DOS 4.X build number
0800      209  ;
BFF0      210  BLDVRSN     equ  $BFF0
BFF1      211  BLDNMBR     equ  $BFF1
BFF2      212  MNGDISK     equ  $BFF2          ; manage disk table
BFFA      213  INITVAL     equ  $BFFA          ; holds INITVALS address
0800      214  ;
0800      215  PAGE08      equ  $0800
0900      216  PAGE09      equ  $0900
C000      217  PAGEC0      equ  $C000
C800      218  PAGEC8      equ  $C800
0800      219  ;
C000      220  KEY         equ  $C000
C010      221  CLRKEY      equ  $C010
0800      222  ;
C010      223  CFHOOK      equ  $C010
C018      224  CFUHOOK     equ  $C018
0800      225  ;
C050      226  TXTCLR      equ  $C050
C051      227  TXTSET      equ  $C051
C052      228  MIXCLR      equ  $C052
C054      229  LOWSCR      equ  $C054
C057      230  HIRES       equ  $C057
0800      231  ;
C030      232  VOLBOOT     equ  $C030
C04B      233  CFRWTS      equ  $C04B
0800      234  ;
C080      235  RAM2WP       equ  $C080
C082      236  ROM2WP      equ  $C082
CFFF      237  CLRROM      equ  $CFFF
0800      238  ;
C080      239  ATADATAH    equ  $C080
C081      240  SETCSMSK    equ  $C081
C082      241  CLRCSMSK    equ  $C082
C086      242  ATADEVCT    equ  $C086
C086      243  ATASTAT2    equ  $C086
```

C088	244	ATADATAL	equ	\$C088
C089	245	ATAERROR	equ	\$C089
C08A	246	ATASECCT	equ	\$C08A
C08B	247	ATASECTR	equ	\$C08B
C08C	248	ATACYLNL	equ	\$C08C
C08D	249	ATACYLNH	equ	\$C08D
C08E	250	ATAHEAD	equ	\$C08E
C08F	251	ATACMD	equ	\$C08F
C08F	252	ATASTAT	equ	\$C08F
0800	253	;		
F94A	254	PRBL2	equ	\$F94A
FB2F	255	INIT	equ	\$FB2F
FC22	256	VTAB	equ	\$FC22
FC42	257	CLREOP	equ	\$FC42
FC58	258	HOME	equ	\$FC58
FC9C	259	CLREOL	equ	\$FC9C
FD8E	260	CROUT	equ	\$FD8E
FDDA	261	PRBYTE	equ	\$FDDA
FDE3	262	PRHEX	equ	\$FDE3
FDED	263	COUT	equ	\$FDED
FE89	264	SETKBD	equ	\$FE89
FE93	265	SETVID	equ	\$FE93
FE95	266	OUTPORT	equ	\$FE95
FF3A	267	BELL	equ	\$FF3A
FF65	268	MONITOR	equ	\$FF65
0800	269	;		
0800	270	;		
0800	271		icl	"CODE1.L"

LLOAD CODE1.L,A\$4000

```

0800          1          ttl "Volume Manager Source Code, CODE1.L"
0800          2          ;
0800          3          ;
0800          4          ; CODE1.L
0800          5          ;
0800          6          ;
0000          7  GRAPHICS equ 0                      ; mode OFF
0000          8  DISPLAY  equ TEXTMODE
0000          9  DEBUG    equ 0
0800         10          ;
0800         11          ;
0900         12          org PAGE09
0900         13          obj PAGE09
0900         14          usr
0900         15          ;
0900         16          ;
0900 D8        17          cld
0901         18          ;
0901 8D 82 C0   19          sta ROM2WP
0904         20          ;
0904 20 F2 37   21          jsr PRINT
0907         22          .if DISPLAY=TEXTMODE
0907 51 00       23          byt MODECMD,TEXTMODE
0909         24          .fi
0909         25          .if DISPLAY=GRPHMODE
0909         26          byt RETURN
0909         27          byt MODECMD,GRPHMODE
0909         28          .fi
0909         29          .if DISPLAY=TX80MODE
0909         30          byt MODECMD,TX80MODE
0909         31          .fi
0909 52 00       32          byt DISPCMD,NORMDISP
090B 53 00       33          byt SCRNCMD,INITSCRN
090D 53 01       34          byt SCRNCMD,HOMESCRN
090F 50         35          byt RTNCMD
0910         36          ;
0910 20 EA 03    37          jsr HOOKDOS
0913         38          ;
0913 A9 00       39          lda #ZERO
0915 85 33       40          sta PROMPT
0917 85 76       41          sta ASRUN
0919         42          ;
0919 A9 FF       43          lda #NEGONE
091B 85 D8       44          sta ASONERR
091D         45          ;
091D 20 D5 13    46          jsr BANNER
0920         47          ;
0920 20 BE 35     48          jsr GETKEY
0923 B0 08       49          bcs >0
0925         50          ;
0925 20 CD 0F     51          jsr FINDCF
0928 90 06       52          bcc START
092A         53          ;
092A         54          .if DEBUG
092A         55          bcs START
092A         56          .fi
092A         57          ;
092A 20 2B 18    58          jsr NOCFFA
092D         59          ;
092D 4C 4A 19    60          ^0          jmp QUIT

```

```

0930      61 ;
0930      62 ;
0930      63 START:
0930      64      .if DEBUG
0930      65      .el
0930 20 14 37 66      jsr DOHOOKON
0933      67      .fi
0933      68 ;
0933 20 62 19 69      jsr GETROMER
0936      70 ;
0936      71      .if DEBUG
0936      72      ldx #5 ; 8 GB card
0936      73      stx CFINDEX
0936      74      jsr EXTRAD
0936      75      .el
0936 20 4C 25 76      jsr EXTRDATA
0939      77      .fi
0939      78 ;
0939      79 ;
0939 20 7A 19 80 MAIN      jsr UNSETERR
093C      81 ;
093C 20 DC 15 82      jsr MAINMENU
093F      83 ;
093F 20 31 11 84 ^1      jsr OPTION
0942      85 ;
0942 20 9C 34 86      jsr GETDEC1
0945 B0 E6 87      bcs <0
0947      88 ;
0947 AE 35 40 89      ldx DECVALS
094A      90 ;
094A E0 01 91      cpx #1
094C 90 F1 92      bcc <1
094E      93 ;
094E E0 06 94      cpx #6
0950 F0 DB 95      beq <0
0952      96 ;
0952 B0 EB 97      bcs <1
0954      98 ;
0954 BD 62 09 99      lda MAINTBLL-1,X
0957 8D 61 09 100     sta MAINMOD+1
095A      101 ;
095A BD 67 09 102     lda MAINTBLH-1,X
095D 8D 62 09 103     sta MAINMOD+2
0960      104 ;
0960 4C 00 00 105 MAINMOD  jmp *-*
0963      106 ;
0963      107 ;
0963      108 MAINTBLL:
0963 6D 109      byt MNGFIRM
0964 58 110      byt MNGCFFA
0965 A1 111      byt MNGDRVS
0966 5E 112      byt MNGVOLS
0967 C2 113      byt MNGDOSI
0968      114 ;
0968      115 MAINTBLH:
0968 09 116      hby MNGFIRM
0969 0A 117      hby MNGCFFA
096A 0C 118      hby MNGDRVS
096B 0D 119      hby MNGVOLS
096C 0E 120      hby MNGDOSI
096D      121 ;

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```

096D      122 ;
096D 20 4E 16 123 MNGFIRM jsr FIRMMENU
0970      124 ;
0970 20 31 11 125 ^1 jsr OPTION
0973      126 ;
0973 20 9C 34 127 jsr GETDEC1
0976 B0 2C 128 bcs >2
0978      129 ;
0978 AE 35 40 130 ldx DECVALS
097B      131 ;
097B E0 01 132 cpx #1
097D 90 F1 133 bcc <1
097F      134 ;
097F E0 06 135 cpx #6
0981 F0 21 136 beq >2
0983      137 ;
0983 B0 EB 138 bcs <1
0985      139 ;
0985 BD A6 09 140 lda FIRMTBLL-1,X
0988 8D 99 09 141 sta FIRMMOD+1
098B      142 ;
098B BD AB 09 143 lda FIRMTBLH-1,X
098E 8D 9A 09 144 sta FIRMMOD+2
0991      145 ;
0991 A2 9E 146 ldx #FIRMERR
0993 A9 09 147 lda /FIRMERR
0995      148 ;
0995 20 92 19 149 jsr SETERROR
0998      150 ;
0998 20 00 00 151 FIRMMOD jsr *-*
099B      152 ;
099B 4C 6D 09 153 jmp MNGFIRM
099E      154 ;
099E 20 9D 11 155 FIRMERR jsr DISKERR
09A1      156 ;
09A1 4C 6D 09 157 jmp MNGFIRM
09A4      158 ;
09A4 4C 39 09 159 ^2 jmp MAIN
09A7      160 ;
09A7      161 ;
09A7      162 FIRMTBLL:
09A7 B1 163 byt SAVEFIRM
09A8 CA 164 byt LOADFIRM
09A9 FB 165 byt LOADDOS
09AA 1B 166 byt RSTRDATA
09AB 53 167 byt RSTRFIRM
09AC      168 ;
09AC      169 FIRMTBLH:
09AC 09 170 hby SAVEFIRM
09AD 09 171 hby LOADFIRM
09AE 09 172 hby LOADDOS
09AF 34 173 hby RSTRDATA
09B0 34 174 hby RSTRFIRM
09B1      175 ;
09B1      176 ;
09B1 20 F2 37 177 SAVEFIRM jsr PRINT
09B4 53 01 178 byt SCRNCMD,HOMESCRN
09B6 8D 55 01 179 byt RETURN,CNTRCMD,INDIRECT
09B9 84 3A 180 adr STR1.01 ; "Save CFFA Firmware to Disk"
09BB 50 181 byt RTNCMD
09BC      182 ;

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09BC 20 1F 27    183      jsr SELCDISK
09BF B0 08      184      bcs >1
09C1            185      ;
09C1 20 CE 27    186      jsr GETVRSN
09C4 B0 03      187      bcs >1
09C6            188      ;
09C6 20 27 1C    189      jsr DOSAVFRM
09C9            190      ;
09C9 60          191      ^1      rts
09CA            192      ;
09CA            193      ;
09CA 20 F2 37    194      LOADFIRM jsr PRINT
09CD 53 01      195      byt SCRNCMD,HOMESCRN
09CF 8D 55 01    196      byt RETURN,CNTRCMD,INDIRECT
09D2 9F 3A      197      adr STR1.02      ; "Install CFFA ... from Disk"
09D4 50          198      byt RTNCMD
09D5            199      ;
09D5 20 95 24    200      jsr CHKWPCF
09D8 B0 20      201      bcs >2
09DA            202      ;
09DA 20 4C 25    203      jsr EXTRDATA
09DD B0 1B      204      bcs >2
09DF            205      ;
09DF 20 10 29    206      jsr READCF
09E2            207      ;
09E2 A0 17      208      ldy #NAMELEN-1
09E4            209      ;
09E4 B9 18 45    210      ^1      lda CFNAME,Y
09E7 99 A5 40    211      sta CFOLDNAM,Y
09EA            212      ;
09EA 88          213      dey
09EB 10 F7      214      bpl <1
09ED            215      ;
09ED 20 1F 27    216      jsr SELCDISK
09F0 B0 08      217      bcs >2
09F2            218      ;
09F2 20 CE 27    219      jsr GETVRSN
09F5 B0 03      220      bcs >2
09F7            221      ;
09F7 20 C9 1C    222      jsr DOLDFRM
09FA            223      ;
09FA 60          224      ^2      rts
09FB            225      ;
09FB            226      ;
09FB 20 F2 37    227      LOADDOS jsr PRINT
09FE 53 01      228      byt SCRNCMD,HOMESCRN
0A00 8D 55 01    229      byt RETURN,CNTRCMD,INDIRECT
0A03 BF 3A      230      adr STR1.03      ; "Install ... DOS from Disk"
0A05 50          231      byt RTNCMD
0A06            232      ;
0A06 20 95 24    233      jsr CHKWPCF
0A09 B0 4C      234      bcs >1
0A0B            235      ;
0A0B 20 1F 27    236      jsr SELCDISK
0A0E B0 47      237      bcs >1
0A10            238      ;
0A10 20 5B 2E    239      jsr DOLDDOS
0A13 B0 42      240      bcs >1
0A15            241      ;
0A15 20 4B 29    242      jsr READCFG
0A18            243      ;

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```

0A18 A9 06      244      lda #DFLTIMAG
0A1A 8D 3C 45    245      sta DFLTBOOT
0A1D           246      ;
0A1D 20 F2 37    247      jsr PRINT
0A20 53 01      248      byt SCRNCMD,HOMESCRN
0A22 8D 55 01    249      byt RETURN,CNTRCMD,INDIRECT
0A25 BF 3A      250      adr STR1.03          ; "Install ... DOS from Disk"
0A27 00 66      251      hex 0066
0A29 D3 E5 F4    252      asc "Setting default DOS boot image to "
0A2C F4 E9 EE
0A2F E7 A0 E4
0A32 E5 E6 E1
0A35 F5 EC F4
0A38 A0 C4 CF
0A3B D3 A0 E2
0A3E EF EF F4
0A41 A0 E9 ED
0A44 E1 E7 E5
0A47 A0 F4 EF
0A4A A0
0A4B 5C          253      byt DEC1CMD
0A4C 3C 45      254      adr DFLTBOOT
0A4E 50          255      byt RTNCMD
0A4F           256      ;
0A4F 20 28 2A    257      jsr WRITCFG
0A52 B0 03      258      bcs >1
0A54           259      ;
0A54 20 74 11    260      jsr STATOKAY
0A57           261      ;
0A57 60          262      ^1      rts
0A58           263      ;
0A58           264      ;
0A58 20 93 16    265      MNGCFFA  jsr CFFAMENU
0A5B           266      ;
0A5B 20 31 11    267      ^1      jsr OPTION
0A5E           268      ;
0A5E 20 9C 34    269      jsr GETDEC1
0A61 B0 31      270      bcs >2
0A63           271      ;
0A63 AE 35 40    272      ldx DECVALS
0A66           273      ;
0A66 E0 01      274      cpx #1
0A68 90 F1      275      bcc <1
0A6A           276      ;
0A6A E0 07      277      cpx #7
0A6C F0 26      278      beq >2
0A6E           279      ;
0A6E B0 EB      280      bcs <1
0A70           281      ;
0A70 BD 96 0A    282      lda CFFATBLL-1,X
0A73 8D 89 0A    283      sta CFFAMOD+1
0A76           284      ;
0A76 BD 9C 0A    285      lda CFFATBLH-1,X
0A79 8D 8A 0A    286      sta CFFAMOD+2
0A7C           287      ;
0A7C 20 F2 24    288      jsr CHKFWCF
0A7F B0 D7      289      bcs MNGCFFA
0A81           290      ;
0A81 A2 8E      291      ldx #CFFAERR
0A83 A9 0A      292      lda /CFFAERR
0A85           293      ;

```

```

0A85 20 92 19    294          jsr SETERROR
0A88            295          ;
0A88 20 00 00    296 CFFAMOD  jsr *-*
0A8B            297          ;
0A8B 4C 58 0A    298          jmp MNGCFFA
0A8E            299          ;
0A8E 20 9D 11    300 CFFAERR  jsr DISKERR
0A91            301          ;
0A91 4C 58 0A    302          jmp MNGCFFA
0A94            303          ;
0A94 4C 39 09    304 ^2      jmp MAIN
0A97            305          ;
0A97            306          ;
0A97            307 CFFATBLL:
0A97 A3          308          byt DSPCFMEM
0A98 04          309          byt DISPID
0A99 1B          310          byt SAVEID
0A9A A5          311          byt SAVELBA
0A9B C4          312          byt RSTORLBA
0A9C E3          313          byt CLRLBA
0A9D            314          ;
0A9D            315 CFFATBLH:
0A9D 0A          316          hby DSPCFMEM
0A9E 0B          317          hby DISPID
0A9F 0B          318          hby SAVEID
0AA0 0B          319          hby SAVELBA
0AA1 0B          320          hby RSTORLBA
0AA2 0B          321          hby CLRLBA
0AA3            322          ;
0AA3            323          ;
0AA3 20 F2 37    324 DSPCFMEM jsr PRINT
0AA6 53 01       325          byt SCRNCMD,HOMESCRN
0AA8 55 01       326          byt CNTRCMD,INDIRECT
0AAA DD 3A       327          adr STR1.04          ; "Display CF ... Utilization"
0AAC 03 63       328          hex 0363
0AAE C3 C6 C6    329          asc "CFFA slot - "
0AB1 C1 A0 F3
0AB4 EC EF F4
0AB7 A0 AD A0
0ABA 5C          330          byt DEC1CMD
0ABB 1D 40       331          adr CFSLOT
0ABD 50          332          byt RTNCMD
0ABE            333          ;
0ABE 20 4B 29    334          jsr READCFG
0AC1            335          ;
0AC1 A0 17       336          ldy #NAMELEN-1
0AC3            337          ;
0AC3 B9 18 45    338 ^1      lda CFNAME,Y
0AC6 99 ED 3E    339          sta NAMEBUFR,Y
0AC9            340          ;
0AC9 88          341          dey
0ACA 10 F7       342          bpl <1
0ACC            343          ;
0ACC 20 F2 37    344          jsr PRINT
0ACF 03 65       345          hex 0365
0AD1 C3 E1 F2    346          asc "Card name - "
0AD4 E4 A0 EE
0AD7 E1 ED E5
0ADA A0 AD A0
0ADD 56 00       347          byt BUFRCMD,DIRECT
0ADF ED 3E       348          adr NAMEBUFR

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0AE1 03 66      349      hex 0366
0AE3 C4 E1 F4   350      asc "Date/Time -"
0AE6 E5 AF D4
0AE9 E9 ED E5
0AEC A0 AD
0AEE 50          351      byt RTNCMD
0AEF           352      ;
0AEF A0 30      353      ldy #CFDATE
0AF1 A9 45      354      lda /CFDATE
0AF3           355      ;
0AF3 20 DD 37   356      jsr PRINTIME
0AF6           357      ;
0AF6 20 4C 25   358      jsr EXTRDATA
0AF9 B0 08      359      bcs >2
0AFB           360      ;
0AFB 20 82 2A   361      jsr SHOWCF
0AFE B0 03      362      bcs >2
0B00           363      ;
0B00 20 74 11   364      jsr STATOKAY
0B03           365      ;
0B03 60         366      ^2    rts
0B04           367      ;
0B04           368      ;
0B04 20 F2 37   369      DISPID jsr PRINT
0B07 53 01      370      byt SCRNCMD,HOMESCRN
0B09 8D 55 01   371      byt RETURN,CNTRCMD,INDIRECT
0B0C FB 3A      372      adr STR1.05      ; "Display ...Device Contents"
0B0E 50         373      byt RTNCMD
0B0F           374      ;
0B0F 20 4C 25   375      jsr EXTRDATA
0B12 B0 06      376      bcs >1
0B14           377      ;
0B14 20 A7 17   378      jsr SHOWDATA
0B17 20 74 11   379      jsr STATOKAY
0B1A           380      ;
0B1A 60         381      ^1    rts
0B1B           382      ;
0B1B           383      ;
0B1B 20 F2 37   384      SAVEID jsr PRINT
0B1E 53 01      385      byt SCRNCMD,HOMESCRN
0B20 8D 55 01   386      byt RETURN,CNTRCMD,INDIRECT
0B23 1C 3B      387      adr STR1.06      ; "Save ... Device to LBA 7"
0B25 50         388      byt RTNCMD
0B26           389      ;
0B26 20 62 2D   390      jsr READID
0B29 B0 57      391      bcs >1
0B2B           392      ;
0B2B 20 F2 37   393      jsr PRINT
0B2E 00 68      394      hex 0068
0B30 D3 F4 E1   395      asc "Status:  read Identify Device"
0B33 F4 F5 F3
0B36 BA A0 A0
0B39 F2 E5 E1
0B3C E4 A0 C9
0B3F E4 E5 EE
0B42 F4 E9 E6
0B45 F9 A0 C4
0B48 E5 F6 E9
0B4B E3 E5
0B4D 50          396      byt RTNCMD
0B4E           397      ;

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0B4E 20 95 21    398      jsr CLEARLBA
0B51              399      ;
0B51 A9 07       400      lda #7
0B53 8D 44 40    401      sta LBA+3
0B56              402      ;
0B56 20 F4 2D    403      jsr WRITLBA2
0B59 B0 28       404      bcs >2
0B5B              405      ;
0B5B 20 F2 37    406      jsr PRINT
0B5E 00 6C       407      hex 006C
0B60 D3 F4 E1    408      asc "Status:  saved Identify Device"
0B63 F4 F5 F3
0B66 BA A0 A0
0B69 F3 E1 F6
0B6C E5 E4 A0
0B6F C9 E4 E5
0B72 EE F4 E9
0B75 E6 F9 A0
0B78 C4 E5 F6
0B7B E9 E3 E5
0B7E 50          409      byt RTNCMD
0B7F              410      ;
0B7F 4C 74 11    411      jmp STATOKAY
0B82              412      ;
0B82 60          413      ^1    rts
0B83              414      ;
0B83 20 F2 37    415      ^2    jsr PRINT
0B86 00 75       416      hex 0075
0B88 56 00       417      byt BUFRCMD,DIRECT
0B8A DA 3D       418      adr MSG3
0B8C F7 F2 E9    419      asc "write Identify Device"
0B8F F4 E5 A0
0B92 C9 E4 E5
0B95 EE F4 E9
0B98 E6 F9 A0
0B9B C4 E5 F6
0B9E E9 E3 E5
0BA1 50          420      byt RTNCMD
0BA2              421      ;
0BA2 4C 9A 35    422      jmp PRESKEYS
0BA5              423      ;
0BA5              424      ;
0BA5              425      ;
0BA5              426      ;
0BA5 20 F2 37    427      SAVELBA  jsr PRINT
0BA8 53 01       428      byt SCRNCMD,HOMESCRN
0BAA 8D 55 01    429      byt RETURN,CNTRCMD,INDIRECT
0BAD 3A 3B       430      adr STR1.07      ; "Save Selected LBA to Disk"
0BAF 50          431      byt RTNCMD
0BB0              432      ;
0BB0 20 1F 27    433      jsr SELCDISK
0BB3 B0 0E       434      bcs >1
0BB5              435      ;
0BB5 20 F2 37    436      jsr PRINT
0BB8 02 6A       437      hex 026A
0BBA 50          438      byt RTNCMD
0BBB              439      ;
0BBB 20 4A 11    440      jsr GETLBA
0BBE B0 03       441      bcs >1
0BC0              442      ;
0BC0 20 2F 1E    443      jsr DOSAVLBA

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0BC3          444 ;
0BC3 60       445 ^1      rts
0BC4          446 ;
0BC4          447 ;
0BC4 20 F2 37 448 RSTORLBA jsr PRINT
0BC7 53 01    449          byt SCRNCMD,HOMESCRN
0BC9 8D 55 01 450          byt RETURN,CNTRCMD,INDIRECT
0BCC 54 3B    451          adr STR1.08          ; "Restore ... LBA from Disk"
0BCE 50       452          byt RTNCMD
0BCF          453 ;
0BCF 20 1F 27 454          jsr SELCDISK
0BD2 B0 0E    455          bcs >1
0BD4          456 ;
0BD4 20 F2 37 457          jsr PRINT
0BD7 02 6A    458          hex 026A
0BD9 50       459          byt RTNCMD
0BDA          460 ;
0BDA 20 4A 11 461          jsr GETLBA
0BDD B0 03    462          bcs >1
0BDF          463 ;
0BDF 20 73 1D 464          jsr DOLDLBA
0BE2          465 ;
0BE2 60       466 ^1      rts
0BE3          467 ;
0BE3          468 ;
0BE3 20 F2 37 469 CLRLBA   jsr PRINT
0BE6 53 01    470          byt SCRNCMD,HOMESCRN
0BE8 8D 55 01 471          byt RETURN,CNTRCMD,INDIRECT
0BEB 73 3B    472          adr STR1.09          ; "Clear Selected LBA Range"
0BED 50       473          byt RTNCMD
0BEE          474 ;
0BEE 20 4C 25 475          jsr EXTRDATA
0BF1 B0 56    476          bcs BCS01
0BF3          477 ;
0BF3 20 F2 37 478 ^1      jsr PRINT
0BF6 00 66    479          hex 0066
0BF8 54 00    480          byt CLRCMD,EOLCLR
0BFA C5 EE F4 481          asc "Enter start LBA number - 0x"
0BFD E5 F2 A0
0C00 F3 F4 E1
0C03 F2 F4 A0
0C06 CC C2 C1
0C09 A0 EE F5
0C0C ED E2 E5
0C0F F2 A0 AD
0C12 A0 B0 F8
0C15 50       482          byt RTNCMD
0C16          483 ;
0C16 20 97 34 484          jsr GETHEX8
0C19 B0 72    485          bcs >7
0C1B          486 ;
0C1B 20 8E 0C 487          jsr CHKHEX
0C1E B0 D3    488          bcs <1
0C20          489 ;
0C20 20 68 11 490          jsr GETLBA2
0C23          491 ;
0C23 20 F2 37 492 ^3      jsr PRINT
0C26 00 68    493          hex 0068
0C28 54 00    494          byt CLRCMD,EOLCLR
0C2A A0 C5 EE 495          asc " Enter last LBA number - 0x"
0C2D F4 E5 F2

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0C30 A0 EC E1
0C33 F3 F4 A0
0C36 CC C2 C1
0C39 A0 EE F5
0C3C ED E2 E5
0C3F F2 A0 AD
0C42 A0 B0 F8
0C45 50          496      byt RTNCMD
0C46          497      ;
0C46 20 97 34    498      jsr GETHEX8
0C49 B0 42      499      BCS01 bcs >7
0C4B          500      ;
0C4B 20 8E 0C    501      jsr CHKHEX
0C4E B0 D3      502      bcs <3
0C50          503      ;
0C50 A2 03      504      ldx #LBALEN-1
0C52          505      ;
0C52 BD 31 40    506      ^4   lda HEXVALS,X
0C55 9D 45 40    507      sta LASTLBA,X
0C58          508      ;
0C58 CA          509      dex
0C59 10 F7      510      bpl <4
0C5B          511      ;
0C5B A2 00      512      ldx #ZERO
0C5D          513      ;
0C5D BD 41 40    514      ^5   lda LBA,X
0C60 DD 45 40    515      cmp LASTLBA,X
0C63 90 07      516      bcc >6
0C65          517      ;
0C65 D0 BC      518      bne <3
0C67          519      ;
0C67 E8          520      inx
0C68          521      ;
0C68 E0 04      522      cpx #LBALEN
0C6A D0 F1      523      bne <5
0C6C          524      ;
0C6C 20 F2 37    525      ^6   jsr PRINT
0C6F 00 6C      526      hex 006C
0C71 C3 EC E5    527      asc "Clear LBA range -"
0C74 E1 F2 A0
0C77 CC C2 C1
0C7A A0 F2 E1
0C7D EE E7 E5
0C80 A0 AD
0C82 50          528      byt RTNCMD
0C83          529      ;
0C83 20 F8 10    530      jsr GETYORN
0C86 B0 05      531      bcs >7
0C88          532      ;
0C88 F0 03      533      beq >7
0C8A          534      ;
0C8A 20 C3 1E    535      jsr DOCLRLBA
0C8D          536      ;
0C8D 60          537      ^7   rts
0C8E          538      ;
0C8E          539      ;
0C8E A2 00      540      CHKHEX ldx #ZERO
0C90          541      ;
0C90 BD 31 40    542      ^1   lda HEXVALS,X
0C93 DD 51 40    543      cmp LASTFREE,X
0C96 90 08      544      bcc >2

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0C98      545 ;
0C98 D0 06      546      bne >2
0C9A      547 ;
0C9A E8      548      inx
0C9B      549 ;
0C9B E0 04      550      cpx #LBALEN
0C9D D0 F1      551      bne <1
0C9F      552 ;
0C9F 18      553      clc
0CA0      554 ;
0CA0 60      555 ^2      rts
0CA1      556 ;
0CA1      557 ;
0CA1      558 MNGDRVS:
0CA1      559      .if DEBUG
0CA1      560      .el
0CA1 2C 0D 40    561      bit CFFAKEY
0CA4 10 3C      562      bpl >2
0CA6      563      .fi
0CA6      564 ;
0CA6 20 E2 16    565      jsr DRVSMENU
0CA9      566 ;
0CA9 20 31 11    567 ^1      jsr OPTION
0CAC      568 ;
0CAC 20 9C 34    569      jsr GETDEC1
0CAF B0 31      570      bcs >2
0CB1      571 ;
0CB1 AE 35 40    572      ldx DECVALS
0CB4      573 ;
0CB4 E0 01      574      cpx #1
0CB6 90 F1      575      bcc <1
0CB8      576 ;
0CB8 E0 04      577      cpx #4
0CBA F0 26      578      beq >2
0CBC      579 ;
0CBC B0 EB      580      bcs <1
0CBE      581 ;
0CBE BD E4 0C    582      lda DRVSTBLL-1,X
0CC1 8D D7 0C    583      sta DRVSMOD+1
0CC4      584 ;
0CC4 BD E7 0C    585      lda DRVSTBLH-1,X
0CC7 8D D8 0C    586      sta DRVSMOD+2
0CCA      587 ;
0CCA 20 F2 24    588      jsr CHKFWCF
0CCD B0 D2      589      bcs MNGDRVS
0CCF      590 ;
0CCF A2 DC      591      ldx #DRVSERR
0CD1 A9 0C      592      lda /DRVSERR
0CD3      593 ;
0CD3 20 92 19    594      jsr SETERROR
0CD6      595 ;
0CD6 20 00 00    596 DRVSMOD jsr *-*
0CD9      597 ;
0CD9 4C A1 0C    598      jmp MNGDRVS
0CDC      599 ;
0CDC 20 9D 11    600 DRVSEERR jsr DISKERR
0CDF      601 ;
0CDF 4C A1 0C    602      jmp MNGDRVS
0CE2      603 ;
0CE2 4C 39 09    604 ^2      jmp MAIN
0CE5      605 ;

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0CE5          606 ;
0CE5          607 DRVSTBLL:
0CE5 EB       608          byt DISPDRVS
0CE6 33       609          byt DSRPDRVS
0CE7 4A       610          byt MODDRVS
0CE8          611 ;
0CE8          612 DRVSTBLH:
0CE8 0C       613          hby DISPDRVS
0CE9 0D       614          hby DSRPDRVS
0CEA 0D       615          hby MODDRVS
0CEB          616 ;
0CEB          617 ;
0CEB 20 F2 37 618 DISPDRVS jsr PRINT
0CEE 53 01    619          byt SCRNCMD,HOMESCRN
0CF0 8D 55 01 620          byt RETURN,CNTRCMD,INDIRECT
0CF3 8C 3B    621          adr STR1.10          ; "List All Drives"
0CF5 63 01    622          hex 6301
0CF7 C4 F2 F6 623          asc "Drv Vols Name"
0CFA A0 A0 D6
0CFD EF EC F3
0D00 A0 A0 CE
0D03 E1 ED E5
0D06 8D       624          byt RETURN
0D07 A0 AD AD 625          asc " --- ----"
0D0A AD A0 A0
0D0D AD AD AD
0D10 AD A0 A0
0D13 AD AD AD
0D16 AD AD AD
0D19 AD AD AD
0D1C AD AD AD
0D1F AD AD AD
0D22 AD AD AD
0D25 AD AD AD
0D28 AD AD AD
0D2B 8D       626          byt RETURN
0D2C 50       627          byt RTNCMD
0D2D          628 ;
0D2D 20 40 1F 629          jsr SHOWDRVS
0D30          630 ;
0D30 4C A1 35 631          jmp PRESKEY2
0D33          632 ;
0D33          633 ;
0D33 20 F2 37 634 DSRPDRVS jsr PRINT
0D36 53 01    635          byt SCRNCMD,HOMESCRN
0D38 8D 55 01 636          byt RETURN,CNTRCMD,INDIRECT
0D3B 9C 3B    637          adr STR1.11          ; "Display Drive Information"
0D3D 50       638          byt RTNCMD
0D3E          639 ;
0D3E 20 8A 10 640          jsr GETDRIVE
0D41 B0 06    641          bcs >1
0D43          642 ;
0D43 20 CC 1F 643          jsr SHOWDES
0D46          644 ;
0D46 4C A1 35 645          jmp PRESKEY2
0D49          646 ;
0D49 60       647 ^1          rts
0D4A          648 ;
0D4A          649 ;
0D4A 20 F2 37 650 MODDRVS jsr PRINT
0D4D 53 01    651          byt SCRNCMD,HOMESCRN

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0D4F 8D 55 01      652      byt RETURN,CNTRCMD,INDIRECT
0D52 B6 3B        653      adr STR1.12      ; "Change Drive Information"
0D54 50           654      byt RTNCMD
0D55             655      ;
0D55 20 8A 10     656      jsr GETDRIVE
0D58 B0 03       657      bcs >1
0D5A             658      ;
0D5A 20 6D 20     659      jsr GETDRNFO
0D5D             660      ;
0D5D 60          661      ^1      rts
0D5E             662      ;
0D5E             663      ;
0D5E             664      MNGVOLS:
0D5E             665      .if DEBUG
0D5E             666      .el
0D5E 2C 0D 40     667      bit CFFAKEY
0D61 10 3C       668      bpl >2
0D63             669      .fi
0D63             670      ;
0D63 20 13 17     671      jsr VOLSMENU
0D66             672      ;
0D66 20 31 11     673      ^1      jsr OPTION
0D69             674      ;
0D69 20 9C 34     675      jsr GETDEC1
0D6C B0 31       676      bcs >2
0D6E             677      ;
0D6E AE 35 40     678      ldx DECVALS
0D71             679      ;
0D71 E0 01       680      cpx #1
0D73 90 F1       681      bcc <1
0D75             682      ;
0D75 E0 08       683      cpx #8
0D77 F0 26       684      beq >2
0D79             685      ;
0D79 B0 EB       686      bcs <1
0D7B             687      ;
0D7B BD A1 0D     688      lda VOLSTBLL-1,X
0D7E 8D 94 0D     689      sta VOLSMOD+1
0D81             690      ;
0D81 BD A8 0D     691      lda VOLSTBLH-1,X
0D84 8D 95 0D     692      sta VOLSMOD+2
0D87             693      ;
0D87 20 F2 24     694      jsr CHKFWCF
0D8A B0 D2       695      bcs MNGVOLS
0D8C             696      ;
0D8C A2 99       697      ldx #VOLSERR
0D8E A9 0D       698      lda /VOLSERR
0D90             699      ;
0D90 20 92 19     700      jsr SETERROR
0D93             701      ;
0D93 20 00 00     702      VOLSMOD jsr *-*
0D96             703      ;
0D96 4C 5E 0D     704      jmp MNGVOLS
0D99             705      ;
0D99 20 9D 11     706      VOLSERR jsr DISKERR
0D9C             707      ;
0D9C 4C 5E 0D     708      jmp MNGVOLS
0D9F             709      ;
0D9F 4C 39 09     710      ^2      jmp MAIN
0DA2             711      ;
0DA2             712      ;

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0DA2          713  VOLSTBLL:
0DA2 B0       714          byt  DISPVOLS
0DA3 C4       715          byt  DISPVDOS
0DA4 86       716          byt  DISPVLBA
0DA5 D8       717          byt  DISPVTOC
0DA6 F1       718          byt  DISPBMAP
0DA7 0A       719          byt  INITVOL
0DA8 23       720          byt  BOOTVOL
0DA9          721  ;
0DA9          722  VOLSTBLH:
0DA9 0D       723          hby  DISPVOLS
0DAA 0D       724          hby  DISPVDOS
0DAB 31       725          hby  DISPVLBA
0DAC 0D       726          hby  DISPVTOC
0DAD 0D       727          hby  DISPBMAP
0DAE 0E       728          hby  INITVOL
0DAF 0E       729          hby  BOOTVOL
0DB0          730  ;
0DB0          731  ;
0DB0 20 F2 37 732  DISPVOLS  jsr  PRINT
0DB3 53 01    733          byt  SCRNCMD,HOMESCRN
0DB5 8D 55 01 734          byt  RETURN,CNTRCMD,INDIRECT
0DB8 CF 3B    735          adr  STR1.13          ; "Display ... Catalog Size"
0DBA 50       736          byt  RTNCMD
0DBB          737  ;
0DBB 20 8A 10 738          jsr  GETDRIVE
0DBE B0 03    739          bcs  >1
0DC0          740  ;
0DC0 20 A0 21 741          jsr  SHOWNCAT
0DC3          742  ;
0DC3 60       743  ^1      rts
0DC4          744  ;
0DC4          745  ;
0DC4 20 F2 37 746  DISPVDOS  jsr  PRINT
0DC7 53 01    747          byt  SCRNCMD,HOMESCRN
0DC9 8D 55 01 748          byt  RETURN,CNTRCMD,INDIRECT
0DCC 5E 3D    749          adr  STR6.05          ; "Display Drive Volumes DOS"
0DCE 50       750          byt  RTNCMD
0DCF          751  ;
0DCF 20 8A 10 752          jsr  GETDRIVE
0DD2 B0 03    753          bcs  >1
0DD4          754  ;
0DD4 20 8D 32 755          jsr  SHOWIDOS
0DD7          756  ;
0DD7 60       757  ^1      rts
0DD8          758  ;
0DD8          759  ;
0DD8 20 F2 37 760  DISPVTOC  jsr  PRINT
0ddb 53 01    761          byt  SCRNCMD,HOMESCRN
0DDD 8D 55 01 762          byt  RETURN,CNTRCMD,INDIRECT
0DE0 F2 3B    763          adr  STR1.14          ; "Display ... Information"
0DE2 50       764          byt  RTNCMD
0DE3          765  ;
0DE3 20 8A 10 766          jsr  GETDRIVE
0DE6 B0 08    767          bcs  >1
0DE8          768  ;
0DE8 20 C5 10 769          jsr  GETVOLUM
0DEB B0 03    770          bcs  >1
0DED          771  ;
0DED 20 B0 19 772          jsr  SHOWVTOC
0DF0          773  ;

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0DF0 60          774  ^1      rts
0DF1            775  ;
0DF1            776  ;
0DF1 20 F2 37    777  DISPBMAP jsr PRINT
0DF4 53 01       778          byt SCRNCMD,HOMESCRN
0DF6 8D 55 01    779          byt RETURN,CNTRCMD,INDIRECT
0DF9 12 3C       780          adr STR1.15          ; "Display ... Information"
0DFB 50          781          byt RTNCMD
0DFC            782  ;
0DFC 20 8A 10    783          jsr GETDRIVE
0DFF B0 08       784          bcs >1
0E01            785  ;
0E01 20 C5 10    786          jsr GETVOLUM
0E04 B0 03       787          bcs >1
0E06            788  ;
0E06 20 4D 22    789          jsr SHOWBMAP
0E09            790  ;
0E09 60          791  ^1      rts
0E0A            792  ;
0E0A            793  ;
0E0A 20 F2 37    794  INITVOL jsr PRINT
0E0D 53 01       795          byt SCRNCMD,HOMESCRN
0E0F 8D 55 01    796          byt RETURN,CNTRCMD,INDIRECT
0E12 34 3C       797          adr STR1.16          ; "Initialize a CF Volume"
0E14 50          798          byt RTNCMD
0E15            799  ;
0E15 20 8A 10    800          jsr GETDRIVE
0E18 B0 08       801          bcs >1
0E1A            802  ;
0E1A 20 C5 10    803          jsr GETVOLUM
0E1D B0 03       804          bcs >1
0E1F            805  ;
0E1F 20 4A 12    806          jsr INITCFVL
0E22            807  ;
0E22 60          808  ^1      rts
0E23            809  ;
0E23            810  ;
0E23 20 F2 37    811  BOOTVOL jsr PRINT
0E26 53 01       812          byt SCRNCMD,HOMESCRN
0E28 8D 55 01    813          byt RETURN,CNTRCMD,INDIRECT
0E2B 4B 3C       814          adr STR1.17          ; "Boot a CF Volume"
0E2D 50          815          byt RTNCMD
0E2E            816  ;
0E2E 20 8A 10    817          jsr GETDRIVE
0E31 B0 18       818          bcs >1
0E33            819  ;
0E33 20 C5 10    820          jsr GETVOLUM
0E36 B0 13       821          bcs >1
0E38            822  ;
0E38 AD 0F 40    823          lda NDRV
0E3B 8D B8 3F    824          sta DRV
0E3E            825  ;
0E3E AD 12 40    826          lda NVOL
0E41 8D B9 3F    827          sta VOL
0E44            828  ;
0E44 A0 B6       829          ldy #TBLTYPE
0E46 A9 3F       830          lda /TBLTYPE
0E48            831  ;
0E48 20 D9 03    832          jsr CALLRWTS
0E4B            833  ;
0E4B B0 74       834  ^1      bcs >3

```

```
0E4D      835 ;
0E4D AD 00 43 836      lda RWTSBUFR
0E50 C9 01    837      cmp #1
0E52 D0 28    838      bne >2
0E54      839 ;
0E54 20 F2 37 840      jsr PRINT
0E57 00 6C    841      hex 006C
0E59 C2 EF EF 842      asc "Boot this Volume -"
0E5C F4 A0 F4
0E5F E8 E9 F3
0E62 A0 D6 EF
0E65 EC F5 ED
0E68 E5 A0 AD
0E6B 50      843      byt RTNCMD
0E6C      844 ;
0E6C 20 F8 10 845      jsr GETYORN
0E6F B0 50    846      bcs >3
0E71      847 ;
0E71 F0 4E    848      beq >3
0E73      849 ;
0E73 AE 0F 40 850      ldx NDRV
0E76 AD 12 40 851      lda NVOL
0E79      852 ;
0E79 6C A7 3E 853      jmp (CFBOOT)
0E7C      854 ;
0E7C 20 F2 37 855 ^2      jsr PRINT
0E7F 00 70    856      hex 0070
0E81 D4 E8 E9 857      asc "This volume does not appear to contain"
0E84 F3 A0 F6
0E87 EF EC F5
0E8A ED E5 A0
0E8D E4 EF E5
0E90 F3 A0 EE
0E93 EF F4 A0
0E96 E1 F0 F0
0E99 E5 E1 F2
0E9C A0 F4 EF
0E9F A0 E3 EF
0EA2 EE F4 E1
0EA5 E9 EE
0EA7 8D      858      byt RETURN
0EA8 E1 A0 E2 859      asc "a bootable DOS image."
0EAB EF EF F4
0EAE E1 E2 EC
0EB1 E5 A0 C4
0EB4 CF D3 A0
0EB7 E9 ED E1
0EBA E7 E5 AE
0EBD 50      860      byt RTNCMD
0EBE      861 ;
0EBE 20 A1 35 862      jsr PRESKEY2
0EC1      863 ;
0EC1 60      864 ^3      rts
0EC2      865 ;
0EC2      866 ;
0EC2      867 MNGDOSI:
0EC2      868      .if DEBUG
0EC2      869      .el
0EC2 2C 0D 40 870      bit CFFAKEY
0EC5 10 3C    871      bpl >2
0EC7      872      .fi
```

```
0EC7      873 ;
0EC7 20 6C 17 874      jsr DOSIMENU
0ECA      875 ;
0ECA 20 31 11 876 ^1      jsr OPTION
0ECD      877 ;
0ECD 20 9C 34 878      jsr GETDEC1
0ED0 B0 31    879      bcs >2
0ED2      880 ;
0ED2 AE 35 40 881      ldx DECVALS
0ED5      882 ;
0ED5 E0 01    883      cpx #1
0ED7 90 F1    884      bcc <1
0ED9      885 ;
0ED9 E0 05    886      cpx #5
0EDB F0 26    887      beq >2
0EDD      888 ;
0EDD B0 EB    889      bcs <1
0EDF      890 ;
0EDF BD 05 0F 891      lda DOSITBLL-1,X
0EE2 8D F8 0E 892      sta DOSIMOD+1
0EE5      893 ;
0EE5 BD 09 0F 894      lda DOSITBLH-1,X
0EE8 8D F9 0E 895      sta DOSIMOD+2
0EEB      896 ;
0EEB      897      .if DEBUG
0EEB      898      .el
0EEB 20 F2 24 899      jsr CHKFWCF
0EEE B0 D2    900      bcs MNGDOSI
0EF0      901      .fi
0EF0      902 ;
0EF0 A2 FD    903      ldx #DOSIERR
0EF2 A9 0E    904      lda /DOSIERR
0EF4      905 ;
0EF4 20 92 19 906      jsr SETERROR
0EF7      907 ;
0EF7 20 00 00 908 DOSIMOD jsr *-*
0EFA      909 ;
0EFA 4C C2 0E 910      jmp MNGDOSI
0EFD      911 ;
0EFD 20 9D 11 912 DOSIERR jsr DISKERR
0F00      913 ;
0F00 4C C2 0E 914      jmp MNGDOSI
0F03      915 ;
0F03 4C 39 09 916 ^2      jmp MAIN
0F06      917 ;
0F06      918 ;
0F06      919 DOSITBLL:
0F06 0E      920      byt DISPDOSI
0F07 21      921      byt SELCDOSI
0F08 C8      922      byt SHOWDOSI
0F09 2B      923      byt GETDOSI
0F0A      924 ;
0F0A      925 DOSITBLH:
0F0A 0F      926      hby DISPDOSI
0F0B 0F      927      hby SELCDOSI
0F0C 2F      928      hby SHOWDOSI
0F0D 30      929      hby GETDOSI
0F0E      930 ;
0F0E      931 ;
0F0E 20 F2 37 932 DISPDOSI jsr PRINT
0F11 53 01    933      byt SCRNCMD,HOMESCRN
```

```

0F13 8D 55 01    934          byt RETURN,CNTRCMD,INDIRECT
0F16 5C 3C      935          adr STR1.18          ; "List Installed DOS Images"
0F18 00 66      936          hex 0066
0F1A 50         937          byt RTNCMD
0F1B           938          ;
0F1B 20 38 2E   939          jsr LISTIMGS
0F1E           940          ;
0F1E 4C A1 35   941          jmp PRESKEY2
0F21           942          ;
0F21           943          ;
0F21 20 F2 37   944  SELCDOSI jsr PRINT
0F24 53 01      945          byt SCRNCMD,HOMESCRN
0F26 8D 55 01   946          byt RETURN,CNTRCMD,INDIRECT
0F29 76 3C      947          adr STR1.19          ; "Select DOS Image for Boot"
0F2B 00 66      948          hex 0066
0F2D 50         949          byt RTNCMD
0F2E           950          ;
0F2E 20 38 2E   951          jsr LISTIMGS
0F31 20 4B 29   952          jsr READCFG
0F34           953          ;
0F34 20 F2 37   954          jsr PRINT
0F37 00 71      955          hex 0071
0F39 CF EC E4   956          asc "Old DOS Boot Image - "
0F3C A0 C4 CF
0F3F D3 A0 C2
0F42 EF EF F4
0F45 A0 C9 ED
0F48 E1 E7 E5
0F4B A0 AD A0
0F4E 5C         957          byt DEC1CMD
0F4F 3C 45      958          adr DFLTBOOT
0F51 50         959          byt RTNCMD
0F52           960          ;
0F52 20 F2 37   961  ^1      jsr PRINT
0F55 00 73      962          hex 0073
0F57 54 01      963          byt CLRCMD,EOPCLR
0F59 CE E5 F7   964          asc "New DOS Boot Image - "
0F5C A0 C4 CF
0F5F D3 A0 C2
0F62 EF EF F4
0F65 A0 C9 ED
0F68 E1 E7 E5
0F6B A0 AD A0
0F6E 50         965          byt RTNCMD
0F6F           966          ;
0F6F 20 9C 34   967          jsr GETDEC1
0F72 B0 21      968          bcs >2
0F74           969          ;
0F74 AD 35 40   970          lda DECVALS
0F77 C9 01      971          cmp #1
0F79 90 D7      972          bcc <1
0F7B           973          ;
0F7B C9 09      974          cmp #9
0F7D B0 D3      975          bcs <1
0F7F           976          ;
0F7F 20 96 0F   977          jsr CHKIMAGE
0F82 B0 CE      978          bcs <1
0F84           979          ;
0F84 20 4B 29   980          jsr READCFG
0F87           981          ;
0F87 AD 7A 3F   982          lda DOSIMAGE

```

```
0F8A 8D 3C 45    983          sta DFLTBOOT
0F8D              984      ;
0F8D 20 28 2A    985          jsr WRITCFG
0F90 B0 03       986          bcs >2
0F92              987      ;
0F92 20 74 11    988          jsr STATOKAY
0F95              989      ;
0F95 60          990      ^2      rts
0F96              991      ;
0F96              992      ;
0F96 8D 7A 3F    993  CHKIMAGE sta DOSIMAGE
0F99              994      ;
0F99 20 E0 2E    995          jsr GETIMAGE
0F9C              996      ;
0F9C              997          .if DEBUG
0F9C              998          clc
0F9C              999          .fi
0F9C              1000     ;
0F9C B0 2E       1001          bcs >1
0F9E              1002     ;
0F9E AD 00 41    1003          lda DESCBUFR
0FA1              1004     ;
0FA1              1005          .if DEBUG
0FA1              1006          beq >1
0FA1              1007          .el
0FA1 D0 29       1008          bne >1
0FA3              1009          .fi
0FA3              1010     ;
0FA3 20 F2 37    1011          jsr PRINT
0FA6 00 75       1012          hex 0075
0FA8 D3 F4 E1    1013          asc "Status:  DOS image not installed"
0FAB F4 F5 F3
0FAE BA A0 A0
0FB1 C4 CF D3
0FB4 A0 E9 ED
0FB7 E1 E7 E5
0FBA A0 EE EF
0FBD F4 A0 E9
0FC0 EE F3 F4
0FC3 E1 EC EC
0FC6 E5 E4
0FC8 50          1014          byt RTNCMD
0FC9              1015     ;
0FC9 20 9A 35    1016          jsr PRESKEYS
0FCC              1017     ;
0FCC 60          1018     ^1      rts
0FCD              1019     ;
0FCD              1020     ;
```

BSAVE SEG01,A\$0900,B,L\$06CD

```
0FCD              1021          usr SEG01
0FCD              1022     ;
0FCD              1023     ;
0FCD              1024          icl "CODE2.L"
```

LLOAD CODE2.L,A\$4000

```

0FCD      1          ttl "Volume Manager Source Code, CODE2.L"
0FCD      2      ;
0FCD      3      ;
0FCD      4      ; CODE2.L
0FCD      5      ;
0FCD      6      ;
0FCD      7          obj PAGE09
0FCD      8          usr
0FCD      9      ;
0FCD     10      ;
0FCD A9 00     11  FINDCF    lda #ZERO
0FCF 8D 0D 40  12          sta CFFAKEY
0FD2     13      ;
0FD2 A9 07     14          lda #7
0FD4 8D 09 40  15          sta TEMP
0FD7     16      ;
0FD7 AD 09 40  17  ^1      lda TEMP
0FDA A2 00     18          ldx #ORIGSIG1-SIGBYTES
0FDC     19      ;
0FDC 20 68 10  20          jsr CHKSLOT
0FDF 90 1D     21          bcc >3
0FE1     22      ;
0FE1 AD 09 40  23          lda TEMP
0FE4 A2 08     24          ldx #ORIGSIG2-SIGBYTES
0FE6     25      ;
0FE6 20 68 10  26          jsr CHKSLOT
0FE9 90 13     27          bcc >3
0FEB     28      ;
0FEB AD 09 40  29          lda TEMP
0FEE A2 10     30          ldx #CFFASIG-SIGBYTES
0FF0     31      ;
0FF0 20 68 10  32          jsr CHKSLOT
0FF3 90 06     33          bcc >2
0FF5     34      ;
0FF5 CE 09 40  35          dec TEMP
0FF8 D0 DD     36          bne <1
0FFA     37      ;
0FFA     38          .if DEBUG
0FFA     39          lda #6
0FFA     40          sta TEMP
0FFA     41          bne >3
0FFA     42          .fi
0FFA     43      ;
0FFA 60        44          rts
0FFB     45      ;
0FFB CE 0D 40  46  ^2      dec CFFAKEY
0FFE     47      ;
0FFE AD 09 40  48  ^3      lda TEMP
1001     49      ;
1001 8D 1D 40  50          sta CFSLOT
1004 8D CD 3F  51          sta FMSLOT
1007     52      ;
1007 09 C0     53          ora /PAGEC0
1009     54      ;
1009 8D 92 37  55          sta DOHOOK+2
100C 8D 95 37  56          sta DOUHOOK+2
100F 8D 22 40  57          sta CFPAGE
1012 8D A8 3E  58          sta CFBOOT+1
1015     59      ;
1015 0A        60          asl

```

```

1016 0A          61          asl
1017 0A          62          asl
1018 0A          63          asl
1019           64          ;
1019 8D 20 40     65          sta CFSLOT16
101C 8D B7 3F     66          sta SLOT16
101F           67          ;
101F 4C 3C 2D     68          jmp CFRESET
1022           69          ;
1022           70          ;
1022 A9 07         71  FINDISK  lda #7
1024 8D 09 40     72          sta TEMP
1027           73          ;
1027 AD 09 40     74  ^1      lda TEMP
102A           75          ;
102A A2 18        76          ldx #DISKSIG-SIGBYTES
102C           77          ;
102C 20 68 10     78          jsr CHKSLOT
102F 90 24        79          bcc >2
1031           80          ;
1031 AD 09 40     81          lda TEMP
1034           82          ;
1034 A2 20        83          ldx #RAMDSIG-SIGBYTES
1036           84          ;
1036 20 68 10     85          jsr CHKSLOT
1039 90 1A        86          bcc >2
103B           87          ;
103B AD 09 40     88          lda TEMP
103E           89          ;
103E A2 28        90          ldx #RANASIG-SIGBYTES
1040           91          ;
1040 20 68 10     92          jsr CHKSLOT
1043 90 10        93          bcc >2
1045           94          ;
1045 AD 09 40     95          lda TEMP
1048           96          ;
1048 A2 30        97          ldx #SIDERSIG-SIGBYTES
104A           98          ;
104A 20 68 10     99          jsr CHKSLOT
104D 90 06       100          bcc >2
104F           101         ;
104F CE 09 40    102          dec TEMP
1052 D0 D3       103          bne <1
1054           104         ;
1054 60          105          rts
1055           106         ;
1055 AD 09 40    107  ^2      lda TEMP
1058 8D 1E 40    108          sta DISKSLOT
105B           109         ;
105B 09 C0       110          ora /PAGEC0
105D 8D 23 40    111          sta DISKPAGE
1060           112         ;
1060 0A          113          asl
1061 0A          114          asl
1062 0A          115          asl
1063 0A          116          asl
1064           117         ;
1064 8D 21 40    118          sta DSKSLT16
1067           119         ;
1067 60          120          rts
1068           121         ;

```

```

1068      122 ;
1068 09 C0      123 CHKSLOT ora #$C0
106A 85 ED      124 sta SLOTPTR+1
106C      125 ;
106C A0 00      126 ldy #ZERO
106E 84 EC      127 sty SLOTPTR
1070      128 ;
1070 2C FF CF   129 bit CLRROM
1073      130 ;
1073 B1 EC      131 ^1 lda (SLOTPTR),Y
1075 DD EE 3D   132 cmp SIGBYTES,X
1078 D0 0B      133 bne >2
107A      134 ;
107A E8         135 inx
107B C8         136 iny
107C      137 ;
107C C0 08      138 cpy #SIGLEN
107E D0 F3      139 bne <1
1080      140 ;
1080 2C FF CF   141 bit CLRROM
1083      142 ;
1083 18         143 clc
1084      144 ;
1084 60         145 rts
1085      146 ;
1085 2C FF CF   147 ^2 bit CLRROM
1088      148 ;
1088 38         149 sec
1089      150 ;
1089 60         151 rts
108A      152 ;
108A      153 ;
108A 20 F2 37   154 GETDRIVE jsr PRINT
108D 01 66      155 hex 0166
108F 54 00      156 byt CLRCMD,EOLCLR
1091 C5 EE F4   157 asc "Enter Drive number - "
1094 E5 F2 A0
1097 C4 F2 E9
109A F6 E5 A0
109D EE F5 ED
10A0 E2 E5 F2
10A3 A0 AD A0
10A6 50         158 byt RTNCMD
10A7      159 ;
10A7 20 9F 34   160 jsr GETDEC2
10AA B0 18      161 bcs >2
10AC      162 ;
10AC AE 13 40   163 ldx NVOLS
10AF      164 ;
10AF AD 35 40   165 lda DECVALS
10B2 F0 D6      166 beq GETDRIVE
10B4      167 ;
10B4 CD 10 40   168 cmp NDRVS
10B7 F0 04      169 beq >1
10B9      170 ;
10B9 B0 CF      171 bcs GETDRIVE
10BB      172 ;
10BB A2 00      173 ldx #ZERO
10BD      174 ;
10BD 8D 0F 40   175 ^1 sta NDRV
10C0 8E 11 40   176 stx NVOLMAX

```

```

10C3          177 ;
10C3 18       178      clc
10C4          179 ;
10C4 60       180 ^2      rts
10C5          181 ;
10C5          182 ;
10C5 20 F2 37 183 GETVOLUM jsr PRINT
10C8 00 68    184      hex 0068
10CA C5 EE F4 185      asc "Enter Volume number - "
10CD E5 F2 A0
10D0 D6 EF EC
10D3 F5 ED E5
10D6 A0 EE F5
10D9 ED E2 E5
10DC F2 A0 AD
10DF A0
10E0 50       186      byt RTNCMD
10E1          187 ;
10E1 20 A2 34 188      jsr GETDEC3
10E4 B0 11    189      bcs >2
10E6          190 ;
10E6 AD 35 40 191      lda DECVALS
10E9          192 ;
10E9 AE 11 40 193      ldx NVOLMAX
10EC F0 05    194      beq >1
10EE          195 ;
10EE CD 11 40 196      cmp NVOLMAX
10F1 B0 D2    197      bcs GETVOLUM
10F3          198 ;
10F3 8D 12 40 199 ^1     sta NVOL
10F6          200 ;
10F6 18       201      clc
10F7          202 ;
10F7 60       203 ^2     rts
10F8          204 ;
10F8          205 ;
10F8 A5 24    206 GETYORN  lda CH
10FA 8D 00 40 207      sta SAVCH
10FD          208 ;
10FD A2 00    209 ^0     ldx #ZERO
10FF          210 ;
10FF BC 2D 11 211 ^1     ldy YORNTBLL,X
1102 BD 2F 11 212      lda YORNTBLH,X
1105          213 ;
1105 20 81 24 214      jsr SETPTR
1108          215 ;
1108 20 F2 37 216      jsr PRINT
110B A0       217      asc " "
110C 52 00    218 YORNMOD1 byt DISPCMD,NORMDISP
110E CE       219      asc "N"
110F 52 00    220      byt DISPCMD,NORMDISP
1111 A0 A0    221      asc " "
1113 52 00    222 YORNMOD2 byt DISPCMD,NORMDISP
1115 D9       223      asc "Y"
1116 52 00    224      byt DISPCMD,NORMDISP
1118 50       225      byt RTNCMD
1119          226 ;
1119 20 F4 35 227      jsr SELCKEY
111C B0 0D    228      bcs >3
111E          229 ;
111E F0 0B    230      beq >3

```

```
1120          231 ;
1120 8A        232 txa
1121 10 02     233 bpl >2
1123          234 ;
1123 A2 01     235 ldx #1
1125          236 ;
1125 C9 02     237 ^2 cmp #2
1127 D0 D6     238 bne <1
1129          239 ;
1129 F0 D2     240 beq <0
112B          241 ;
112B 8A        242 ^3 txa
112C          243 ;
112C 60        244 rts
112D          245 ;
112D          246 ;
112D          247 YORNTBLL:
112D 0D        248 byt YORNMOD1+1
112E 14        249 byt YORNMOD2+1
112F          250 ;
112F          251 YORNTBLH:
112F 11        252 hby YORNMOD1+1
1130 11        253 hby YORNMOD2+1
1131          254 ;
1131          255 ;
1131 20 F2 37   256 OPTION jsr PRINT
1134 00 76      257 hex 0076
1136 54 00      258 byt CLRCMD,EOLCLR
1138 D3 E5 EC   259 asc "Select Option: "
113B E5 E3 F4
113E A0 CF F0
1141 F4 E9 EF
1144 EE BA A0
1147 A0
1148 50         260 byt RTNCMD
1149          261 ;
1149 60         262 rts
114A          263 ;
114A          264 ;
114A 20 F2 37   265 GETLBA jsr PRINT
114D C5 EE F4   266 asc "Enter LBA number: 0x"
1150 E5 F2 A0
1153 CC C2 C1
1156 A0 EE F5
1159 ED E2 E5
115C F2 BA A0
115F A0 B0 F8
1162 50         267 byt RTNCMD
1163          268 ;
1163 20 97 34    269 jsr GETHEX8
1166 B0 0B       270 bcs >2
1168          271 ;
1168 A2 03       272 GETLBA2 ldx #LBALEN-1
116A          273 ;
116A BD 31 40    274 ^1 lda HEXVALS,X
116D 9D 41 40    275 sta LBA,X
1170          276 ;
1170 CA         277 dex
1171 10 F7       278 bpl <1
1173          279 ;
1173 60         280 ^2 rts
```

```

1174      281 ;
1174      282 ;
1174 20 F2 37 283 STATOKAY jsr PRINT
1177 00 76    284          hex 0076
1179 54 01    285          byt CLRCMD,EOPCLR
117B D3 F4 E1 286          asc "Status: Okay, press any key"
117E F4 F5 F3
1181 BA A0 A0
1184 CF EB E1
1187 F9 AC A0
118A F0 F2 E5
118D F3 F3 A0
1190 E1 EE F9
1193 A0 EB E5
1196 F9
1197 50      287          byt RTNCMD
1198      288 ;
1198 20 BE 35 289          jsr GETKEY
119B      290 ;
119B EA      291          nop ; CLC
119C      292 ;
119C 60      293          rts
119D      294 ;
119D      295 ;
119D 8E 09 40 296 DISKERR stx TEMP
11A0      297 ;
11A0 20 F2 37 298          jsr PRINT
11A3 00 74    299          hex 0074
11A5 54 01    300          byt CLRCMD,EOPCLR
11A7 D3 F4 E1 301          asc "Status: "
11AA F4 F5 F3
11AD BA A0 A0
11B0 50      302          byt RTNCMD
11B1      303 ;
11B1 AE 09 40 304          ldx TEMP
11B4 20 AD 19 305          jsr PRTEROR
11B7      306 ;
11B7 4C A1 35 307          jmp PRESKEY2
11BA      308 ;
11BA      309 ;
11BA 20 95 21 310 RDDRVLBA jsr CLEARLBA
11BD      311 ;
11BD 8D 0B 40 312          sta PAGE
11C0      313 ;
11C0 38      314          sec
11C1      315 ;
11C1 AD 0F 40 316          lda NDRV
11C4 E9 01    317          sbc #1
11C6      318 ;
11C6 4A      319          lsr
11C7 6E 0B 40 320          ror PAGE
11CA      321 ;
11CA 69 D0    322          adc #DRCATLBA
11CC 8D 44 40 323          sta LBA+3
11CF      324 ;
11CF 20 B7 2D 325          jsr READLBA2
11D2 B0 0A    326          bcs >2
11D4      327 ;
11D4 C6 CF    328          dec GENPTR+1
11D6      329 ;
11D6 AD 0B 40 330          lda PAGE

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11D9 D0 02      331      bne >1
11DB            332      ;
11DB C6 CF      333      dec GENPTR+1
11DD            334      ;
11DD 60         335      ^1      rts
11DE            336      ;
11DE 20 F2 37   337      ^2      jsr PRINT
11E1 00 74      338      hex 0074
11E3 56 00      339      byt BUFRCMD,DIRECT
11E5 DA 3D      340      adr MSG3
11E7 F2 E5 E1   341      asc "read Drive Catalog"
11EA E4 A0 C4
11ED F2 E9 F6
11F0 E5 A0 C3
11F3 E1 F4 E1
11F6 EC EF E7
11F9 50         342      byt RTNCMD
11FA            343      ;
11FA 4C 9A 35   344      jmp PRESKEYS
11FD            345      ;
11FD            346      ;
11FD 20 F2 37   347      SHOWDRVL jsr PRINT
1200 04 64      348      hex 0464
1202 54 01      349      byt CLRCMD,EOPCLR
1204 C4 F2 E9   350      asc "Drive - "
1207 F6 E5 A0
120A AD A0
120C 5D         351      byt DEC2CMD
120D 0F 40      352      adr NDRV
120F 8D         353      byt RETURN
1210 02         354      hex 02
1211 D6 EF EC   355      asc "Volumes - "
1214 F5 ED E5
1217 F3 A0 AD
121A A0
121B 50         356      byt RTNCMD
121C            357      ;
121C AD 11 40   358      lda NVOLMAX
121F D0 09      359      bne >1
1221            360      ;
1221 20 F2 37   361      jsr PRINT
1224 B2 B5 B6   362      asc "256"
1227 50         363      byt RTNCMD
1228            364      ;
1228 90 07      365      bcc >2      ; always taken
122A            366      ;
122A 20 F2 37   367      ^1      jsr PRINT
122D 5E         368      byt DEC3CMD
122E 11 40      369      adr NVOLMAX
1230 50         370      byt RTNCMD
1231            371      ;
1231 60         372      ^2      rts
1232            373      ;
1232            374      ;
1232 A0 00      375      CLRIMBUF ldy #DOSBUFR
1234 A9 43      376      lda /DOSBUFR
1236            377      ;
1236 84 CE      378      sty GENPTR
1238 85 CF      379      sta GENPTR+1
123A            380      ;
123A A2 30      381      ldx #IMAGSIZE*2

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123C          382 ;
123C A0 00    383      ldy #ZERO
123E 98       384      tya
123F          385 ;
123F 91 CE    386 ^1      sta (GENPTR),Y
1241          387 ;
1241 C8       388      iny
1242 D0 FB    389      bne <1
1244          390 ;
1244 E6 CF    391      inc GENPTR+1
1246          392 ;
1246 CA       393      dex
1247 D0 F6    394      bne <1
1249          395 ;
1249 60       396      rts
124A          397 ;
124A          398 ;
124A 20 FD 22 399 INITCFVL jsr SHOWDVOL
124D          400 ;
124D AD 0F 40 401      lda NDRV
1250 8D CC 3F 402      sta FMDRIVE
1253          403 ;
1253 AD 12 40 404      lda NVOL
1256 8D CB 3F 405      sta FMVOLUME
1259          406 ;
1259 20 F2 37 407 ^1      jsr PRINT
125C 00 66    408      hex 0066
125E 54 00    409      byt CLRCMD,EOLCLR
1260 D6 EF EC 410      asc "Volume Title - "
1263 F5 ED E5
1266 A0 D4 E9
1269 F4 EC E5
126C A0 AD A0
126F 50       411      byt RTNCMD
1270          412 ;
1270 A2 18    413      ldx #NAMELEN
1272          414 ;
1272 A0 BE    415      ldy #VOLTITLE
1274 A9 40    416      lda /VOLTITLE
1276          417 ;
1276 20 F2 27 418      jsr GETTEXTC
1279 B0 61    419      bcs RTN3
127B          420 ;
127B AD BE 40 421      lda VOLTITLE
127E F0 D9    422      beq <1
1280          423 ;
1280 20 CA 28 424      jsr PADBUFR
1283          425 ;
1283 20 F2 37 426      jsr PRINT
1286 03 67    427      hex 0367
1288 C4 E1 F4 428      asc "Date/Time -"
128B E5 AF D4
128E E9 ED E5
1291 A0 AD
1293 50       429      byt RTNCMD
1294          430 ;
1294 A0 F0     431      ldy #FMDATE
1296 A9 40    432      lda /FMDATE
1298          433 ;
1298 20 A9 19 434      jsr READCLK
129B          435 ;

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129B A0 F0      436      ldy #FMDATE
129D A9 40      437      lda /FMDATE
129F           438      ;
129F 20 DD 37   439      jsr PRINTIME
12A2           440      ;
12A2 20 F2 37   441      jsr PRINT
12A5 00 69      442      hex 0069
12A7 D6 EF EC   443      asc "Volume Tracks -"
12AA F5 ED E5
12AD A0 D4 F2
12B0 E1 E3 EB
12B3 F3 A0 AD
12B6 50         444      byt RTNCMD
12B7           445      ;
12B7 20 70 23   446      jsr SELCTRK
12BA B0 20      447      bcs RTN3
12BC           448      ;
12BC BD D0 3E   449      lda TRKVLTLBL,X
12BF 8D D6 3F   450      sta ENDTRK
12C2           451      ;
12C2 20 F2 37   452      jsr PRINT
12C5 00 6A      453      hex 006A
12C7 D4 F2 E1   454      asc "Track Sectors -"
12CA E3 EB A0
12CD D3 E5 E3
12D0 F4 EF F2
12D3 F3 A0 AD
12D6 50         455      byt RTNCMD
12D7           456      ;
12D7 20 BE 23   457      jsr SELCSEC
12DA 90 01      458      bcc >2
12DC           459      ;
12DC 60         460      RTN3      rts
12DD           461      ;
12DD BD D4 3E   462      ^2      lda SECVLTBL,X
12E0 8D CE 3F   463      sta FMFTYPE
12E3           464      ;
12E3 20 F2 37   465      ^3      jsr PRINT
12E6 00 6C      466      hex 006C
12E8 54 00      467      byt CLRCMD,EOLCLR
12EA C3 E1 F4   468      asc "Catalog Sectors (1-15) - "
12ED E1 EC EF
12F0 E7 A0 D3
12F3 E5 E3 F4
12F6 EF F2 F3
12F9 A0 A8 B1
12FC AD B1 B5
12FF A9 A0 AD
1302 A0
1303 50         469      byt RTNCMD
1304           470      ;
1304 20 9F 34   471      jsr GETDEC2
1307 B0 D3      472      bcs RTN3
1309           473      ;
1309 AD 35 40   474      lda DECVALS
130C C9 01      475      cmp #1
130E 90 D3      476      bcc <3
1310           477      ;
1310 C9 10      478      cmp #16
1312 B0 CF      479      bcs <3
1314           480      ;

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1314 8D D5 3F    481          sta SECVAL
1317              482      ;
1317 20 F2 37    483      ^4      jsr PRINT
131A 09 6D      484          hex 096D
131C D3 F5 E2    485          asc "Subject Value - 0x"
131F EA E5 E3
1322 F4 A0 D6
1325 E1 EC F5
1328 E5 A0 AD
132B A0 B0 F8
132E 50          486          byt RTNCMD
132F              487      ;
132F 20 91 34    488          jsr GETHEX4
1332 B0 A8      489          bcs RTN3
1334              490      ;
1334 10 E1      491          bpl <4
1336              492      ;
1336 AD 31 40    493          lda HEXVALS
1339 AE 32 40    494          ldx HEXVALS+1
133C              495      ;
133C 8E D7 3F    496          stx SUBJECT
133F 8D D8 3F    497          sta SUBJECT+1
1342              498      ;
1342 A0 17      499          ldz #NAMELEN-1
1344              500      ;
1344 A9 A0      501          lda #SPACE
1346              502      ;
1346 99 D7 40    503      ^5      sta BOOTFILE,Y
1349              504      ;
1349 88          505          dey
134A 10 FA      506          bpl <5
134C              507      ;
134C 20 F2 37    508          jsr PRINT
134F 0B 6F      509          hex 0B6F
1351 D6 EF EC    510          asc "Volume Type -"
1354 F5 ED E5
1357 A0 D4 F9
135A F0 E5 A0
135D AD
135E 50          511          byt RTNCMD
135F              512      ;
135F 20 F8 23    513          jsr SELCTYP
1362 B0 70      514          bcs >8
1364              515      ;
1364 BD D6 3E    516          lda TYPVLTBL,X
1367 F0 40      517          beq >7
1369              518      ;
1369 20 F2 37    519      ^6      jsr PRINT
136C 00 71      520          hex 0071
136E 54 00      521          byt CLRCMD,EOLCLR
1370 C2 EF EF    522          asc "Boot Name - "
1373 F4 A0 CE
1376 E1 ED E5
1379 A0 AD A0
137C 50          523          byt RTNCMD
137D              524      ;
137D A2 18      525          ldx #NAMELEN
137F              526      ;
137F A0 D7      527          ldz #BOOTFILE
1381 A9 40      528          lda /BOOTFILE
1383              529      ;

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1383 20 F2 27      530      jsr GETTEXTC
1386 B0 4C        531      bcs >8
1388              532      ;
1388 AD D7 40      533      lda BOOTFILE
138B F0 DC        534      beq <6
138D              535      ;
138D 20 CA 28      536      jsr PADBUFR
1390              537      ;
1390 20 F2 37      538      jsr PRINT
1393 00 72        539      hex 0072
1395 C2 EF EF      540      asc "Boot Type -"
1398 F4 A0 D4
139B F9 F0 E5
139E A0 AD
13A0 50          541      byt RTNCMD
13A1              542      ;
13A1 20 30 24      543      jsr SELCBOOT
13A4 B0 2E        544      bcs >8
13A6              545      ;
13A6 BD D8 3E      546      lda BOOTVTBL,X
13A9              547      ;
13A9 8D C8 3F      548      ^7 sta SUBCODE
13AC              549      ;
13AC 20 F2 37      550      jsr PRINT
13AF 00 74        551      hex 0074
13B1 C9 EE E9      552      asc "Initialize this Volume -"
13B4 F4 E9 E1
13B7 EC E9 FA
13BA E5 A0 F4
13BD E8 E9 F3
13C0 A0 D6 EF
13C3 EC F5 ED
13C6 E5 A0 AD
13C9 50          553      byt RTNCMD
13CA              554      ;
13CA 20 F8 10      555      jsr GETYORN
13CD B0 05        556      bcs >8
13CF              557      ;
13CF F0 03        558      beq >8
13D1              559      ;
13D1 20 54 2A      560      jsr WRITFM
13D4              561      ;
13D4 60           562      ^8 rts
13D5              563      ;
13D5              564      ;
13D5 A0 00        565      BANNER ldy #ZERO
13D7 98           566      tya
13D8              567      ;
13D8 99 00 40      568      ^1 sta DATABUFR,Y
13DB              569      ;
13DB C8           570      iny
13DC D0 FA        571      bne <1
13DE              572      ;
13DE A0 AC        573      ldy #VSNBUFR
13E0 A9 3E        574      lda /VSNBUFR
13E2              575      ;
13E2 20 A7 19      576      jsr READVSN
13E5              577      ;
13E5 20 F2 37      578      jsr PRINT
13E8 53 01        579      byt SCRNCMD,HOMESCRN
13EA 68           580      hex 68

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```
13EB 55 00      581      byt CNTRCMD,DIRECT
13ED D4 E8 E5   582      asc "The current operating system is"
13F0 A0 E3 F5
13F3 F2 F2 E5
13F6 EE F4 A0
13F9 EF F0 E5
13FC F2 E1 F4
13FF E9 EE E7
1402 A0 F3 F9
1405 F3 F4 E5
1408 ED A0 E9
140B F3
140C 00 6C      583      hex 006C
140E 55 01      584      byt CNTRCMD,INDIRECT
1410 AC 3E      585      adr VSNBUFR
1412 50         586      byt RTNCMD
1413           587      ;
1413 A2 08      588      ldx #8
1415 20 DA 2C   589      jsr WAIT
1418           590      ;
1418 20 A9 35   591      jsr PRESKEY
141B           592      ;
141B 20 F2 37   593      jsr PRINT
141E 53 01      594      byt SCRNCMD,HOMESCRN
1420 8D 55 00   595      byt RETURN,CNTRCMD,DIRECT
1423 C3 C6 C6   596      asc "CFFA Volume Manager"
1426 C1 A0 D6
1429 EF EC F5
142C ED E5 A0
142F CD E1 EE
1432 E1 E7 E5
1435 F2
1436 8D 8D 55   597      byt RETURN,RETURN,CNTRCMD,DIRECT
1439 00
143A C4 CF D3   598      asc "DOS 4.5, Build 06"
143D A0 B4 AE
1440 B5 AC A0
1443 C2 F5 E9
1446 EC E4 A0
1449 B0 B6
144B 8D 8D 55   599      byt RETURN,RETURN,CNTRCMD,DIRECT
144E 00
144F C3 EF F0   600      asc "Copyright (c) 2024 February 14"
1452 F9 F2 E9
1455 E7 E8 F4
1458 A0 A8 E3
145B A9 A0 B2
145E B0 B2 B4
1461 A0 C6 E5
1464 E2 F2 F5
1467 E1 F2 F9
146A A0 B1 B4
146D 8D 8D 55   601      byt RETURN,RETURN,CNTRCMD,DIRECT
1470 00
1471 E2 F9      602      asc "by"
1473 8D 8D 55   603      byt RETURN,RETURN,CNTRCMD,DIRECT
1476 00
1477 D7 E1 EC   604      asc "Walland Philip Vrbancic Jr"
147A EC E1 EE
147D E4 A0 D0
1480 E8 E9 EC
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1483 E9 F0 A0
1486 D6 F2 E2
1489 E1 EE E3
148C E9 E3 A0
148F CA F2
1491 8D 8D 8D    605      byt RETURN,RETURN,RETURN,CNTRCMD,DIRECT
1494 55 00
1496 D5 F3 E5    606      asc "Use this CompactFlash For Apple"
1499 A0 F4 E8
149C E9 F3 A0
149F C3 EF ED
14A2 F0 E1 E3
14A5 F4 C6 EC
14A8 E1 F3 E8
14AB A0 C6 EF
14AE F2 A0 C1
14B1 F0 F0 EC
14B4 E5
14B5 8D 55 00    607      byt RETURN,CNTRCMD,DIRECT
14B8 E9 EE F3    608      asc "installer and the accompanying"
14BB F4 E1 EC
14BE EC E5 F2
14C1 A0 E1 EE
14C4 E4 A0 F4
14C7 E8 E5 A0
14CA E1 E3 E3
14CD EF ED F0
14D0 E1 EE F9
14D3 E9 EE E7
14D6 8D 55 00    609      byt RETURN,CNTRCMD,DIRECT
14D9 F3 EF E6    610      asc "software programs at your own risk."
14DC F4 F7 E1
14DF F2 E5 A0
14E2 F0 F2 EF
14E5 E7 F2 E1
14E8 ED F3 A0
14EB E1 F4 A0
14EE F9 EF F5
14F1 F2 A0 EF
14F4 F7 EE A0
14F7 F2 E9 F3
14FA EB AE
14FC 8D 8D 55    611      byt RETURN,RETURN,CNTRCMD,DIRECT
14FF 00
1500 D9 EF F5    612      asc "You are responsible for any damage or"
1503 A0 E1 F2
1506 E5 A0 F2
1509 E5 F3 F0
150C EF EE F3
150F E9 E2 EC
1512 E5 A0 E6
1515 EF F2 A0
1518 E1 EE F9
151B A0 E4 E1
151E ED E1 E7
1521 E5 A0 EF
1524 F2
1525 8D 55 00    613      byt RETURN,CNTRCMD,DIRECT
1528 EC EF F3    614      asc "loss of productivity this installer or"
152B F3 A0 EF
152E E6 A0 F0
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1531 F2 EF E4
1534 F5 E3 F4
1537 E9 F6 E9
153A F4 F9 A0
153D F4 E8 E9
1540 F3 A0 E9
1543 EE F3 F4
1546 E1 EC EC
1549 E5 F2 A0
154C EF F2
154E 8D 55 00    615      byt RETURN,CNTRCMD,DIRECT
1551 F4 E8 E5    616      asc "the accompanying software may cause."
1554 A0 E1 E3
1557 E3 EF ED
155A F0 E1 EE
155D F9 E9 EE
1560 E7 A0 F3
1563 EF E6 F4
1566 F7 E1 F2
1569 E5 A0 ED
156C E1 F9 A0
156F E3 E1 F5
1572 F3 E5 AE
1575 8D 8D 55    617      byt RETURN,RETURN,CNTRCMD,DIRECT
1578 00
1579 D0 F2 E5    618      asc "Press any key to continue if"
157C F3 F3 A0
157F E1 EE F9
1582 A0 EB E5
1585 F9 A0 F4
1588 EF A0 E3
158B EF EE F4
158E E9 EE F5
1591 E5 A0 E9
1594 E6
1595 8D 55 00    619      byt RETURN,CNTRCMD,DIRECT
1598 F9 EF F5    620      asc "you agree to these terms, or"
159B A0 E1 E7
159E F2 E5 E5
15A1 A0 F4 EF
15A4 A0 F4 E8
15A7 E5 F3 E5
15AA A0 F4 E5
15AD F2 ED F3
15B0 AC A0 EF
15B3 F2
15B4 8D 55 00    621      byt RETURN,CNTRCMD,DIRECT
15B7 F0 F2 E5    622      asc "press ESC to exit this program now."
15BA F3 F3 A0
15BD C5 D3 C3
15C0 A0 F4 EF
15C3 A0 E5 F8
15C6 E9 F4 A0
15C9 F4 E8 E9
15CC F3 A0 F0
15CF F2 EF E7
15D2 F2 E1 ED
15D5 A0 EE EF
15D8 F7 AE
15DA 50          623      byt RTNCMD
15DB            624      ;
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15DB 60          625          rts
15DC            626      ;
15DC            627      ;
15DC 20 F2 37    628 MAINMENU jsr PRINT
15DF 53 01      629          byt SCRNCMD,HOMESCRN
15E1 8D 55 00   630          byt RETURN,CNTRCMD,DIRECT
15E4 C3 C6 C6   631          asc "CFFA Volume Manager Main Menu"
15E7 C1 A0 D6
15EA EF EC F5
15ED ED E5 A0
15F0 CD E1 EE
15F3 E1 E7 E5
15F6 F2 A0 CD
15F9 E1 E9 EE
15FC A0 CD E5
15FF EE F5
1601 01 66      632          hex 0166
1603 B1 A0 AD    633          asc "1 - "
1606 A0
1607 56 00      634          byt BUFRCMD,DIRECT
1609 90 3C      635          adr STR2.01          ; "Manage Firmware"
160B 01 68      636          hex 0168
160D B2 A0 AD    637          asc "2 - "
1610 A0
1611 56 00      638          byt BUFRCMD,DIRECT
1613 A0 3C      639          adr STR2.02          ; "Manage CompactFlash Card"
1615 01 6A      640          hex 016A
1617 B3 A0 AD    641          asc "3 - "
161A A0
161B 56 00      642          byt BUFRCMD,DIRECT
161D B9 3C      643          adr STR2.03          ; "Manage Drives"
161F 01 6C      644          hex 016C
1621 B4 A0 AD    645          asc "4 - "
1624 A0
1625 56 00      646          byt BUFRCMD,DIRECT
1627 C7 3C      647          adr STR2.04          ; "Manage Volumes"
1629 01 6E      648          hex 016E
162B B5 A0 AD    649          asc "5 - "
162E A0
162F 56 00      650          byt BUFRCMD,DIRECT
1631 D6 3C      651          adr STR2.05          ; "Manage User DOS Images"
1633 01 70      652          hex 0170
1635 B6 A0 AD    653          asc "6 - Exit Volume Manager"
1638 A0 C5 F8
163B E9 F4 A0
163E D6 EF EC
1641 F5 ED E5
1644 A0 CD E1
1647 EE E1 E7
164A E5 F2
164C 50          654          byt RTNCMD
164D            655      ;
164D 60          656          rts
164E            657      ;
164E            658      ;
164E 20 F2 37    659 FIRMENU jsr PRINT
1651 53 01      660          byt SCRNCMD,HOMESCRN
1653 8D 55 01    661          byt RETURN,CNTRCMD,INDIRECT
1656 90 3C      662          adr STR2.01          ; "Manage Firmware"
1658 01 66      663          hex 0166
165A B1 A0 AD    664          asc "1 - "

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165D A0
165E 56 00      665      byt BUFRCMD,DIRECT
1660 84 3A      666      adr STR1.01      ; "Save CFFA Firmware to Disk"
1662 01 68      667      hex 0168
1664 B2 A0 AD    668      asc "2 - "
1667 A0
1668 56 00      669      byt BUFRCMD,DIRECT
166A 9F 3A      670      adr STR1.02      ; "Install CFFA ... from Disk"
166C 01 6A      671      hex 016A
166E B3 A0 AD    672      asc "3 - "
1671 A0
1672 56 00      673      byt BUFRCMD,DIRECT
1674 BF 3A      674      adr STR1.03      ; "Install ... DOS from Disk"
1676 01 6C      675      hex 016C
1678 B4 A0 AD    676      asc "4 - "
167B A0
167C 56 00      677      byt BUFRCMD,DIRECT
167E 78 3D      678      adr STR6.06      ; "Restore CF Firm ... Data"
1680 01 6E      679      hex 016E
1682 B5 A0 AD    680      asc "5 - "
1685 A0
1686 56 00      681      byt BUFRCMD,DIRECT
1688 91 3D      682      adr STR6.07      ; "Restore CF ... Firmware"
168A 01 70      683      hex 0170
168C B6         684      asc "6"
168D 56 00      685      byt BUFRCMD,DIRECT
168F AE 3D      686      adr MSG1
1691 50         687      byt RTNCMD
1692         688      ;
1692 60         689      rts
1693         690      ;
1693         691      ;
1693 20 F2 37    692      CFFAMENU jsr PRINT
1696 53 01      693      byt SCRNCMD,HOMESCRN
1698 8D 55 01    694      byt RETURN,CNTRCMD,INDIRECT
169B A0 3C      695      adr STR2.02      ; "Manage CompactFlash Card"
169D 01 66      696      hex 0166
169F B1 A0 AD    697      asc "1 - "
16A2 A0
16A3 56 00      698      byt BUFRCMD,DIRECT
16A5 DD 3A      699      adr STR1.04      ; "Display CF ... Utilization"
16A7 01 68      700      hex 0168
16A9 B2 A0 AD    701      asc "2 - "
16AC A0
16AD 56 00      702      byt BUFRCMD,DIRECT
16AF FB 3A      703      adr STR1.05      ; "Display ...Device Contents"
16B1 01 6A      704      hex 016A
16B3 B3 A0 AD    705      asc "3 - "
16B6 A0
16B7 56 00      706      byt BUFRCMD,DIRECT
16B9 1C 3B      707      adr STR1.06      ; "Save ... Device to LBA 7"
16BB 01 6C      708      hex 016C
16BD B4 A0 AD    709      asc "4 - "
16C0 A0
16C1 56 00      710      byt BUFRCMD,DIRECT
16C3 3A 3B      711      adr STR1.07      ; "Save Selected LBA to Disk"
16C5 01 6E      712      hex 016E
16C7 B5 A0 AD    713      asc "5 - "
16CA A0
16CB 56 00      714      byt BUFRCMD,DIRECT
16CD 54 3B      715      adr STR1.08      ; "Restore ... LBA from Disk"

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16CF 01 70      716      hex 0170
16D1 B6 A0 AD   717      asc "6 - "
16D4 A0
16D5 56 00      718      byt BUFRCMD,DIRECT
16D7 73 3B      719      adr STR1.09      ; "Clear Selected LBA Range"
16D9 01 72      720      hex 0172
16DB B7         721      asc "7"
16DC 56 00      722      byt BUFRCMD,DIRECT
16DE AE 3D      723      adr MSG1
16E0 50         724      byt RTNCMD
16E1           725      ;
16E1 60         726      rts
16E2           727      ;
16E2           728      ;
16E2 20 F2 37   729      DRVSMENU jsr PRINT
16E5 53 01      730      byt SCRNCMD,HOMESCRN
16E7 8D 55 01   731      byt RETURN,CNTRCMD,INDIRECT
16EA B9 3C      732      adr STR2.03      ; "Manage Drives"
16EC 01 66      733      hex 0166
16EE B1 A0 AD   734      asc "1 - "
16F1 A0
16F2 56 00      735      byt BUFRCMD,DIRECT
16F4 8C 3B      736      adr STR1.10      ; "List All Drives"
16F6 01 68      737      hex 0168
16F8 B2 A0 AD   738      asc "2 - "
16FB A0
16FC 56 00      739      byt BUFRCMD,DIRECT
16FE 9C 3B      740      adr STR1.11      ; "Display Drive Information"
1700 01 6A      741      hex 016A
1702 B3 A0 AD   742      asc "3 - "
1705 A0
1706 56 00      743      byt BUFRCMD,DIRECT
1708 B6 3B      744      adr STR1.12      ; "Change Drive Information"
170A 01 6C      745      hex 016C
170C B4         746      asc "4"
170D 56 00      747      byt BUFRCMD,DIRECT
170F AE 3D      748      adr MSG1
1711 50         749      byt RTNCMD
1712           750      ;
1712 60         751      rts
1713           752      ;
1713           753      ;
1713 20 F2 37   754      VOLSMENU jsr PRINT
1716 53 01      755      byt SCRNCMD,HOMESCRN
1718 8D 55 01   756      byt RETURN,CNTRCMD,INDIRECT
171B C7 3C      757      adr STR2.04      ; "Manage Volumes"
171D 01 65      758      hex 0165
171F B1 A0 AD   759      asc "1 - "
1722 A0
1723 56 00      760      byt BUFRCMD,DIRECT
1725 CF 3B      761      adr STR1.13      ; "Display ... Catalog Size"
1727 01 67      762      hex 0167
1729 B2 A0 AD   763      asc "2 - "
172C A0
172D 56 00      764      byt BUFRCMD,DIRECT
172F 5E 3D      765      adr STR6.05      ; "Display Drive Volumes DOS"
1731 01 69      766      hex 0169
1733 B3 A0 AD   767      asc "3 - "
1736 A0
1737 56 00      768      byt BUFRCMD,DIRECT
1739 45 3D      769      adr STR6.04      ; "Display Volume LBA Range"

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```

173B 01 6B      770      hex 016B
173D B4 A0 AD   771      asc "4 - "
1740 A0
1741 56 00      772      byt BUFRCMD,DIRECT
1743 F2 3B      773      adr STR1.14      ; "Display ... Information"
1745 01 6D      774      hex 016D
1747 B5 A0 AD   775      asc "5 - "
174A A0
174B 56 00      776      byt BUFRCMD,DIRECT
174D 12 3C      777      adr STR1.15      ; "Display ... Information"
174F 01 6F      778      hex 016F
1751 B6 A0 AD   779      asc "6 - "
1754 A0
1755 56 00      780      byt BUFRCMD,DIRECT
1757 34 3C      781      adr STR1.16      ; "Initialize a CF Volume"
1759 01 71      782      hex 0171
175B B7 A0 AD   783      asc "7 - "
175E A0
175F 56 00      784      byt BUFRCMD,DIRECT
1761 4B 3C      785      adr STR1.17      ; "Boot a CF Volume"
1763 01 73      786      hex 0173
1765 B8         787      asc "8"
1766 56 00      788      byt BUFRCMD,DIRECT
1768 AE 3D      789      adr MSG1
176A 50         790      byt RTNCMD
176B         791      ;
176B 60         792      rts
176C         793      ;
176C         794      ;
176C 20 F2 37   795      DOSIMENU jsr PRINT
176F 53 01      796      byt SCRNCMD,HOMESCRN
1771 8D 55 01   797      byt RETURN,CNTRCMD,INDIRECT
1774 D6 3C      798      adr STR2.05      ; "Manage User DOS Images"
1776 01 66      799      hex 0166
1778 B1 A0 AD   800      asc "1 - "
177B A0
177C 56 00      801      byt BUFRCMD,DIRECT
177E 5C 3C      802      adr STR1.18      ; "List Installed DOS Images"
1780 01 68      803      hex 0168
1782 B2 A0 AD   804      asc "2 - "
1785 A0
1786 56 00      805      byt BUFRCMD,DIRECT
1788 76 3C      806      adr STR1.19      ; "Select DOS Image for Boot"
178A 01 6A      807      hex 016A
178C B3 A0 AD   808      asc "3 - "
178F A0
1790 56 00      809      byt BUFRCMD,DIRECT
1792 01 3D      810      adr STR6.01      ; "Show DOS Image Description"
1794 01 6C      811      hex 016C
1796 B4 A0 AD   812      asc "4 - "
1799 A0
179A 56 00      813      byt BUFRCMD,DIRECT
179C 1C 3D      814      adr STR6.02      ; "Modify DOS ... Description"
179E 01 6E      815      hex 016E
17A0 B5         816      asc "5"
17A1 56 00      817      byt BUFRCMD,DIRECT
17A3 AE 3D      818      adr MSG1
17A5 50         819      byt RTNCMD
17A6         820      ;
17A6 60         821      rts
17A7         822      ;

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```

17A7      823 ;
17A7 20 F2 37 824 SHOWDATA jsr PRINT
17AA 04 65     825 hex 0465
17AC C3 F9 EC 826 asc "Cylinders - "
17AF E9 EE E4
17B2 E5 F2 F3
17B5 A0 AD A0
17B8 59      827 byt BYT2CMD
17B9 37 40    828 adr IDCYLNUM
17BB 08 67    829 hex 0867
17BD C8 E5 E1 830 asc "Heads - "
17C0 E4 F3 A0
17C3 AD A0
17C5 59      831 byt BYT2CMD
17C6 39 40    832 adr IDHDSNUM
17C8 00 69    833 hex 0069
17CA D3 E5 E3 834 asc "Sectors/Track - "
17CD F4 EF F2
17D0 F3 AF D4
17D3 F2 E1 E3
17D6 EB A0 AD
17D9 A0
17DA 59      835 byt BYT2CMD
17DB 3B 40    836 adr IDSPTNUM
17DD 02 6B    837 hex 026B
17DF CD E1 F8 838 asc "Maximum LBA - "
17E2 E9 ED F5
17E5 ED A0 CC
17E8 C2 C1 A0
17EB AD A0
17ED 57      839 byt NIBLCMD
17EE 3D 40    840 adr IDLBANUM
17F0 5A 03    841 byt BYTNCMD,3
17F2 3E 40    842 adr IDLBANUM+1
17F4 00 6D    843 hex 006D
17F6 D3 E5 F2 844 asc "Serial Number - "
17F9 E9 E1 EC
17FC A0 CE F5
17FF ED E2 E5
1802 F2 A0 AD
1805 A0
1806 56 00    845 byt BUFRCMD,DIRECT
1808 6E 40    846 adr IDSRLBUF
180A 05 6F    847 hex 056F
180C C6 E9 F2 848 asc "Firmware - "
180F ED F7 E1
1812 F2 E5 A0
1815 AD A0
1817 56 00    849 byt BUFRCMD,DIRECT
1819 83 40    850 adr IDFRMBUF
181B 08 71    851 hex 0871
181D CD EF E4 852 asc "Model - "
1820 E5 EC A0
1823 AD A0
1825 56 00    853 byt BUFRCMD,DIRECT
1827 8C 40    854 adr IDMDLBUF
1829 50      855 byt RTNCMD
182A      856 ;
182A 60      857 rts
182B      858 ;
182B      859 ;

```

```
182B A2 00      860 NOCFFA    ldx #ZERO
182D           861 ;
182D 2C 00 00   862          bit *-*
1830           863          dfs !-2
182E           864 ;
182E           865 ;
182E A2 05      866 NODISK    ldx #CDMSGLEN
1830           867 ;
1830 A0 00      868          ldy #ZERO
1832           869 ;
1832 BD 06 3F   870 ^1      lda CFFAMSG,X
1835 99 55 40   871          sta CDMESG,Y
1838           872 ;
1838 E8         873          inx
1839 C8         874          iny
183A           875 ;
183A C0 05      876          cpy #CDMSGLEN
183C D0 F4      877          bne <1
183E           878 ;
183E 20 F2 37   879          jsr PRINT
1841 53 01      880          byt SCRNCMD,HOMESCRN
1843 8D         881          byt RETURN
1844 D4 E8 E5   882          asc "There is no "
1847 F2 E5 A0
184A E9 F3 A0
184D EE EF A0
1850 56 00      883          byt BUFRCMD,DIRECT
1852 55 40      884          adr CDMESG
1854 A0 E3 E1   885          asc " card installed at this"
1857 F2 E4 A0
185A E9 EE F3
185D F4 E1 EC
1860 EC E5 E4
1863 A0 E1 F4
1866 A0 F4 E8
1869 E9 F3
186B 8D 8D      886          byt RETURN,RETURN
186D F4 E9 ED   887          asc "time.  Please install your "
1870 E5 AE A0
1873 A0 D0 EC
1876 E5 E1 F3
1879 E5 A0 E9
187C EE F3 F4
187F E1 EC EC
1882 A0 F9 EF
1885 F5 F2 A0
1888 56 00      888          byt BUFRCMD,DIRECT
188A 55 40      889          adr CDMESG
188C A0 E3 E1   890          asc " card in"
188F F2 E4 A0
1892 E9 EE
1894 8D 8D      891          byt RETURN,RETURN
1896 E1 A0 F3   892          asc "a slot with the computer turned off."
1899 EC EF F4
189C A0 F7 E9
189F F4 E8 A0
18A2 F4 E8 E5
18A5 A0 E3 EF
18A8 ED F0 F5
18AB F4 E5 F2
18AE A0 F4 F5
```

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18B1 F2 EE E5
18B4 E4 A0 EF
18B7 E6 E6 AE
18BA 8D 8D 8D      893      byt RETURN,RETURN,RETURN
18BD CF EE E3      894      asc "Once the "
18C0 E5 A0 F4
18C3 E8 E5 A0
18C6 56 00          895      byt BUFRCMD,DIRECT
18C8 55 40          896      adr CDMESG
18CA A0 E3 E1      897      asc " card is installed VOLMGR"
18CD F2 E4 A0
18D0 E9 F3 A0
18D3 E9 EE F3
18D6 F4 E1 EC
18D9 EC E5 E4
18DC A0 D6 CF
18DF CC CD C7
18E2 D2
18E3 8D 8D          898      byt RETURN,RETURN
18E5 F7 E9 EC      899      asc "will locate the card and allow you to"
18E8 EC A0 EC
18EB EF E3 E1
18EE F4 E5 A0
18F1 F4 E8 E5
18F4 A0 E3 E1
18F7 F2 E4 A0
18FA E1 EE E4
18FD A0 E1 EC
1900 EC EF F7
1903 A0 F9 EF
1906 F5 A0 F4
1909 EF
190A 8D 8D          900      byt RETURN,RETURN
190C ED E1 EE      901      asc "manage changes to the CFFA Firmware,"
190F E1 E7 E5
1912 A0 E3 E8
1915 E1 EE E7
1918 E5 F3 A0
191B F4 EF A0
191E F4 E8 E5
1921 A0 C3 C6
1924 C6 C1 A0
1927 C6 E9 F2
192A ED F7 E1
192D F2 E5 AC
1930 8D 8D          902      byt RETURN,RETURN
1932 C4 F2 E9      903      asc "Drives, and Volumes."
1935 F6 E5 F3
1938 AC A0 E1
193B EE E4 A0
193E D6 EF EC
1941 F5 ED E5
1944 F3 AE
1946 50              904      byt RTNCMD
1947                  905      ;
1947 4C 9A 35        906      jmp PRESKEYS
194A                  907      ;
194A                  908      ;
194A 20 F2 37        909      QUIT      jsr PRINT
194D                  910      .if DISPLAY=GRPHMODE
194D                  911      byt MODECMD,TEXTMODE

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```

194D          912          .fi
194D          913          .if DISPLAY=TX80MODE
194D          914          byt MODECMD,LV80MODE
194D          915          .fi
194D 52 00      916          byt DISPCMD,NORMDISP
194F 53 00      917          byt SCRNCMD,INITSCRN
1951 8D         918          byt RETURN
1952 53 01      919          byt SCRNCMD,HOMESCRN
1954 50         920          byt RTNCMD
1955          921          ;
1955 A9 A5      922          lda #PERCENT
1957 85 33      923          sta PROMPT
1959          924          ;
1959 A9 00      925          lda #ZERO
195B 85 76      926          sta ASRUN
195D 85 D8      927          sta ASONERR
195F          928          ;
195F 4C D0 03   929          jmp DOSWARM
1962          930          ;
1962          931          ;
1962 AC FA BF   932  GETROMER ldy INITVAL
1965 AD FB BF   933          lda INITVAL+1
1968          934          ;
1968 84 CE      935          sty GENPTR
196A 85 CF      936          sta GENPTR+1
196C          937          ;
196C A0 04      938          ldy #ERRORNDX
196E          939          ;
196E B1 CE      940          lda (GENPTR),Y
1970 8D 25 40   941          sta SAVROMER
1973          942          ;
1973 C8         943          iny
1974          944          ;
1974 B1 CE      945          lda (GENPTR),Y
1976 8D 26 40   946          sta SAVROMER+1
1979          947          ;
1979 60         948          rts
197A          949          ;
197A          950          ;
197A AC FA BF   951  UNSETERR ldy INITVAL
197D AD FB BF   952          lda INITVAL+1
1980          953          ;
1980 84 CE      954          sty GENPTR
1982 85 CF      955          sta GENPTR+1
1984          956          ;
1984 A0 04      957          ldy #ERRORNDX
1986          958          ;
1986 AD 25 40   959          lda SAVROMER
1989 91 CE      960          sta (GENPTR),Y
198B          961          ;
198B C8         962          iny
198C          963          ;
198C AD 26 40   964          lda SAVROMER+1
198F 91 CE      965          sta (GENPTR),Y
1991          966          ;
1991 60         967          rts
1992          968          ;
1992          969          ;
1992 48         970  SETERROR pha
1993          971          ;
1993 AC FA BF   972          ldy INITVAL

```

```
1996 AD FB BF 973 lda INITVAL+1
1999 974 ;
1999 84 CE 975 sty GENPTR
199B 85 CF 976 sta GENPTR+1
199D 977 ;
199D A0 04 978 ldy #ERRORNDX
199F 979 ;
199F 8A 980 txa
19A0 91 CE 981 sta (GENPTR),Y
19A2 982 ;
19A2 C8 983 iny
19A3 984 ;
19A3 68 985 pla
19A4 91 CE 986 sta (GENPTR),Y
19A6 987 ;
19A6 60 988 rts
19A7 989 ;
19A7 990 ;
19A7 38 991 READVSN sec
19A8 992 ;
19A8 90 00 993 bcc *+2
19AA 994 dfs !-1
19A9 995 ;
19A9 18 996 READCLK clc
19AA 997 ;
19AA 6C E1 03 998 jmp (RDCLKVSN)
19AD 999 ;
19AD 6C E8 03 1000 PRTEROR jmp (PRTERADR)
19B0 1001 ;
19B0 1002 ;
```

BSAVE SEG02,A\$0900,B,L\$09E3

```
19B0 1003 usr SEG02
19B0 1004 ;
19B0 1005 ;
19B0 1006 icl "CODE3.L"
```

LLOAD CODE3.L,A\$4000

```

19B0          1          ttl "Volume Manger Source Code, CODE3.L"
19B0          2          ;
19B0          3          ;
19B0          4          ; CODE3.L
19B0          5          ;
19B0          6          ;
19B0          7          obj PAGE09
19B0          8          usr
19B0          9          ;
19B0         10          ;
19B0 20 FD 22   11  SHOWVTOC jsr SHOWDVOL
19B3         12          ;
19B3 20 0A 36   13          jsr GETVTOC2
19B6 90 03     14          bcc >1
19B8         15          ;
19B8 4C 9B 35   16          jmp PRESKEYA
19BB         17          ;
19BB 20 29 22   18  ^1      jsr INITVTOC
19BE         19          ;
19BE AD 03 43   20          lda DOSVRSN
19C1         21          ;
19C1 4A        22          lsr
19C2 4A        23          lsr
19C3 4A        24          lsr
19C4 4A        25          lsr
19C5         26          ;
19C5 8D 05 40   27          sta SAVNUM
19C8         28          ;
19C8 20 F2 37   29          jsr PRINT
19CB 00 65     30          hex 0065
19CD B1 F3 F4   31          asc "1st Cat T/S    - 0x"
19D0 A0 C3 E1
19D3 F4 A0 D4
19D6 AF D3 A0
19D9 A0 A0 AD
19DC A0 B0 F8
19DF 58        32          byt BYT1CMD
19E0 01 43     33          adr FRSTTRK
19E2 AF B0 F8   34          asc "/0x"
19E5 58        35          byt BYT1CMD
19E6 02 43     36          adr FRSTSEC
19E8 8D        37          byt RETURN
19E9 C4 CF D3   38          asc "DOS Version    - "
19EC A0 D6 E5
19EF F2 F3 E9
19F2 EF EE A0
19F5 A0 A0 AD
19F8 A0
19F9 57        39          byt NIBLCMD
19FA 05 40     40          adr SAVNUM
19FC AE        41          asc "."
19FD 57        42          byt NIBLCMD
19FE 03 43     43          adr DOSVRSN
1A00 8D        44          byt RETURN
1A01 C4 CF D3   45          asc "DOS Build      - "
1A04 A0 C2 F5
1A07 E9 EC E4
1A0A A0 A0 A0
1A0D A0 A0 AD
1A10 A0

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```

1A11 58          46          byt BYT1CMD
1A12 04 43      47          adr DOSBUILD
1A14 8D          48          byt RETURN
1A15 C4 CF D3   49          asc "DOS RAM      -  "
1A18 A0 D2 C1
1A1B CD A0 A0
1A1E A0 A0 A0
1A21 A0 A0 AD
1A24 A0
1A25 50          50          byt RTNCMD
1A26          51          ;
1A26 A2 10      52          ldx #DOSRAMH
1A28 A0 3F      53          ldy /DOSRAMH
1A2A          54          ;
1A2A AD 05 43   55          lda DOSRAM
1A2D          56          ;
1A2D C9 48      57          cmp #'H'
1A2F F0 16      58          beq >2
1A31          59          ;
1A31 C9 C8      60          cmp #"H"
1A33 F0 12      61          beq >2
1A35          62          ;
1A35 A2 1C      63          ldx #DOSRAML
1A37 A0 3F      64          ldy /DOSRAML
1A39          65          ;
1A39 C9 4C      66          cmp #'L'
1A3B F0 0A      67          beq >2
1A3D          68          ;
1A3D C9 CC      69          cmp #"L"
1A3F F0 06      70          beq >2
1A41          71          ;
1A41 A9 3F      72          lda #'?'
1A43          73          ;
1A43 A2 27      74          ldx #UNKNOWN
1A45 A0 3F      75          ldy /UNKNOWN
1A47          76          ;
1A47 20 BF 37   77          ^2 jsr PRNTBUFT
1A4A          78          ;
1A4A 20 F2 37   79          jsr PRINT
1A4D 8D          80          byt RETURN
1A4E D6 EF EC   81          asc "Volm Number  - 0x"
1A51 ED A0 CE
1A54 F5 ED E2
1A57 E5 F2 A0
1A5A A0 A0 AD
1A5D A0 B0 F8
1A60 58          82          byt BYT1CMD
1A61 06 43      83          adr DISKVOL
1A63 A0 A8      84          asc " ("
1A65 5E          85          byt DEC3CMD
1A66 06 43      86          adr DISKVOL
1A68 A9          87          asc ")"
1A69 8D          88          byt RETURN
1A6A D6 EF EC   89          asc "Volm Type  -  "
1A6D ED A0 D4
1A70 F9 F0 E5
1A73 A0 A0 A0
1A76 A0 A0 AD
1A79 A0
1A7A 50          90          byt RTNCMD
1A7B          91          ;

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```

1A7B A2 32      92      ldx #VOLTYPB
1A7D A0 3F      93      ldy /VOLTYPB
1A7F           94      ;
1A7F AD 07 43   95      lda DISKTYPE
1A82           96      ;
1A82 C9 42      97      cmp #'B'
1A84 F0 16      98      beq >3
1A86           99      ;
1A86 C9 C2     100      cmp #"B"
1A88 F0 12     101      beq >3
1A8A           102     ;
1A8A A2 3F     103      ldx #VOLTYPD
1A8C A0 3F     104      ldy /VOLTYPD
1A8E           105     ;
1A8E C9 44     106      cmp #'D'
1A90 F0 0A     107      beq >3
1A92           108     ;
1A92 C9 C4     109      cmp #"D"
1A94 F0 06     110      beq >3
1A96           111     ;
1A96 A9 BF     112      lda #"? "
1A98           113     ;
1A98 A2 27     114      ldx #UNKNOWN
1A9A A0 3F     115      ldy /UNKNOWN
1A9C           116     ;
1A9C 20 BF 37  117     ^3   jsr PRNTBUFT
1A9F           118     ;
1A9F A0 17     119      ldy #NAMELEN-1
1AA1           120     ;
1AA1 B9 08 43  121     ^4   lda DISKNAME,Y
1AA4 99 ED 3E  122      sta NAMEBUFR,Y
1AA7           123     ;
1AA7 88        124      dey
1AA8 10 F7     125      bpl <4
1AAA           126     ;
1AAA 20 F2 37  127      jsr PRINT
1AAD 8D        128      byt RETURN
1AAE D6 EF EC  129      asc "Volm Subject - 0x"
1AB1 ED A0 D3
1AB4 F5 E2 EA
1AB7 E5 E3 F4
1ABA A0 A0 AD
1ABD A0 B0 F8
1AC0 5B 01     130      byt ADRCMD,INDIRECT
1AC2 28 43     131      adr DISKSUBJ
1AC4 A0 A8     132      asc " ("
1AC6 5F 00     133      byt DECNCMD,NOPAD
1AC8 28 43     134      adr DISKSUBJ
1ACA A9        135      asc ")"
1ACB 8D        136      byt RETURN
1ACC D6 EF EC  137      asc "Volm DiskName - "
1ACF ED A0 C4
1AD2 E9 F3 EB
1AD5 CE E1 ED
1AD8 E5 A0 AD
1ADB A0
1ADC 56 00     138      byt BUFRCMD,DIRECT
1ADE ED 3E     139      adr NAMEBUFR
1AE0 D6 EF EC  140      asc "Volm DateTime -"
1AE3 ED A0 C4
1AE6 E1 F4 E5

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```

1AE9 D4 E9 ED
1AEC E5 A0 AD
1AEF 50          141      byt RTNCMD
1AF0          142      ;
1AF0 A0 20      143      ldy #INITIME
1AF2 A9 43      144      lda /INITIME
1AF4          145      ;
1AF4 20 DD 37   146      jsr PRINTIME
1AF7          147      ;
1AF7 20 F2 37   148      jsr PRINT
1AFA 8D          149      byt RETURN
1AFB D6 D4 CF   150      asc "VTOC DateTime -"
1AFE C3 A0 C4
1B01 E1 F4 E5
1B04 D4 E9 ED
1B07 E5 A0 AD
1B0A 50          151      byt RTNCMD
1B0B          152      ;
1B0B A0 2A      153      ldy #VTOCTIME
1B0D A9 43      154      lda /VTOCTIME
1B0F          155      ;
1B0F 20 DD 37   156      jsr PRINTIME
1B12          157      ;
1B12 20 F2 37   158      jsr PRINT
1B15 8D          159      byt RETURN
1B16 D4 AF D3   160      asc "T/S Pairs      - 0x"
1B19 A0 D0 E1
1B1C E9 F2 F3
1B1F A0 A0 A0
1B22 A0 A0 AD
1B25 A0 B0 F8
1B28 58          161      byt BYT1CMD
1B29 27 43      162      adr NUMTSENT
1B2B A0 A8      163      asc " ("
1B2D 5E          164      byt DEC3CMD
1B2E 27 43      165      adr NUMTSENT
1B30 A9          166      asc ")"
1B31 8D          167      byt RETURN
1B32 CE E5 F8   168      asc "Next Track      - 0x"
1B35 F4 A0 D4
1B38 F2 E1 E3
1B3B EB A0 A0
1B3E A0 A0 AD
1B41 A0 B0 F8
1B44 58          169      byt BYT1CMD
1B45 30 43      170      adr NXTTOALC
1B47 A0 A8      171      asc " ("
1B49 5D          172      byt DEC2CMD
1B4A 30 43      173      adr NXTTOALC
1B4C A9          174      asc ")"
1B4D 8D          175      byt RETURN
1B4E D4 EB A0   176      asc "Tk Allocation - 0x"
1B51 C1 EC EC
1B54 EF E3 E1
1B57 F4 E9 EF
1B5A EE A0 AD
1B5D A0 B0 F8
1B60 50          177      byt RTNCMD
1B61          178      ;
1B61 A2 4C      179      ldx #ALLDIRN
1B63 A0 3F      180      ldy /ALLDIRN

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```

1B65      181 ;
1B65 AD 31 43 182      lda ALLCDIR
1B68 C9 FF 183      cmp #NEGONE
1B6A F0 0C 184      beq >5
1B6C      185 ;
1B6C A2 58 186      ldx #ALLDIRP
1B6E A0 3F 187      ldy /ALLDIRP
1B70      188 ;
1B70 C9 01 189      cmp #1
1B72 F0 04 190      beq >5
1B74      191 ;
1B74 A2 27 192      ldx #UNKNOWN
1B76 A0 3F 193      ldy /UNKNOWN
1B78      194 ;
1B78 20 CB 37 195      jsr PRNTBUFH
1B7B      196 ;
1B7B 20 F2 37 197      jsr PRINT
1B7E 8D 198      byt RETURN
1B7F C3 EF EE 199      asc "Config/Lock - 0x"
1B82 E6 E9 E7
1B85 AF CC EF
1B88 E3 EB A0
1B8B A0 A0 AD
1B8E A0 B0 F8
1B91 58      200      byt BYT1CMD
1B92 32 43      201      adr DOSCONFIG
1B94 AF B0 F8 202      asc "/0x"
1B97 54 00      203      byt CLRCMD,EOLCLR
1B99 50      204      byt RTNCMD
1B9A      205 ;
1B9A A2 6E      206      ldx #LOCKU
1B9C A0 3F      207      ldy /LOCKU
1B9E      208 ;
1B9E AD 33 43 209      lda DISKLOCK
1BA1 29 80      210      and #MSBMASK
1BA3 10 04      211      bpl >6
1BA5      212 ;
1BA5 A2 64      213      ldx #LOCKL
1BA7 A0 3F      214      ldy /LOCKL
1BA9      215 ;
1BA9 20 CB 37 216      jsr PRNTBUFH
1BAC      217 ;
1BAC 20 F2 37 218      jsr PRINT
1BAF 8D 219      byt RETURN
1BB0 D6 EF EC 220      asc "Volume Tracks - 0x"
1BB3 F5 ED E5
1BB6 A0 D4 F2
1BB9 E1 E3 EB
1BBC F3 A0 AD
1BBF A0 B0 F8
1BC2 58      221      byt BYT1CMD
1BC3 34 43      222      adr NUMTRKS
1BC5 A0 A8      223      asc " ("
1BC7 5D      224      byt DEC2CMD
1BC8 34 43      225      adr NUMTRKS
1BCA A9      226      asc ")"
1BCB 8D      227      byt RETURN
1BCC D4 F2 E1 228      asc "Track Sectors - 0x"
1BCF E3 EB A0
1BD2 D3 E5 E3
1BD5 F4 EF F2

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1BD8 F3 A0 AD
1BDB A0 B0 F8
1BDE 58          229      byt  BYT1CMD
1BDF 35 43      230      adr  NUMSECS
1BE1 A0 A8      231      asc  " ("
1BE3 5D          232      byt  DEC2CMD
1BE4 35 43      233      adr  NUMSECS
1BE6 A9          234      asc  ")"
1BE7 8D          235      byt  RETURN
1BE8 D4 F2 E1   236      asc  "Track Phases - 0x"
1BEB E3 EB A0
1BEE D0 E8 E1
1BF1 F3 E5 F3
1BF4 A0 A0 AD
1BF7 A0 B0 F8
1BFA 58          237      byt  BYT1CMD
1BFB 26 43      238      adr  VTOCPHAS
1BFD A0 A8      239      asc  " ("
1BFF 5D          240      byt  DEC2CMD
1C00 26 43      241      adr  VTOCPHAS
1C02 A9          242      asc  ")"
1C03 8D          243      byt  RETURN
1C04 D3 E5 E3   244      asc  "Sector Bytes - 0x"
1C07 F4 EF F2
1C0A A0 C2 F9
1C0D F4 E5 F3
1C10 A0 A0 AD
1C13 A0 B0 F8
1C16 57          245      byt  NIBLCMD
1C17 37 43      246      adr  BYTPRSEC+1
1C19 58          247      byt  BYT1CMD
1C1A 36 43      248      adr  BYTPRSEC
1C1C A0 A8      249      asc  " ("
1C1E 5F 00      250      byt  DECNCMD,NOPAD
1C20 36 43      251      adr  BYTPRSEC
1C22 A9          252      asc  ")"
1C23 50          253      byt  RTNCMD
1C24          254      ;
1C24 4C A9 35   255      jmp  PRESKEY
1C27          256      ;
1C27          257      ;
1C27 20 F2 37   258      DOSAVFRM jsr  PRINT
1C2A 00 6D      259      hex  006D
1C2C C6 E9 EC   260      asc  "Filenames - CFFA_SLOT_"
1C2F E5 EE E1
1C32 ED E5 F3
1C35 A0 AD A0
1C38 C3 C6 C6
1C3B C1 DF D3
1C3E CC CF D4
1C41 DF
1C42 56 00      261      byt  BUFRCMD,DIRECT
1C44 C1 3E      262      adr  VERSION
1C46 8D          263      byt  RETURN
1C47 0C          264      hex  0C
1C48 C3 C6 C6   265      asc  "CFFA_ROM_"
1C4B C1 DF D2
1C4E CF CD DF
1C51 56 00      266      byt  BUFRCMD,DIRECT
1C53 C1 3E      267      adr  VERSION
1C55 00 71      268      hex  0071

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```

1C57 D3 E1 F6      269      asc "Save Firmware -"
1C5A E5 A0 C6
1C5D E9 F2 ED
1C60 F7 E1 F2
1C63 E5 A0 AD
1C66 50            270      byt RTNCMD
1C67              271      ;
1C67 20 F8 10      272      jsr GETYORN
1C6A B0 5C          273      bcs >1
1C6C              274      ;
1C6C F0 5A          275      beq >1
1C6E              276      ;
1C6E 20 10 29      277      jsr READCF
1C71              278      ;
1C71 20 F2 37      279      jsr PRINT
1C74 8D 84          280      byt RETURN,CTRLD
1C76 C2 D3 C1      281      asc "BSAVE CFFA_SLOT_"
1C79 D6 C5 A0
1C7C C3 C6 C6
1C7F C1 DF D3
1C82 CC CF D4
1C85 DF
1C86 56 00          282      byt BUFRCMD,DIRECT
1C88 C1 3E          283      adr VERSION
1C8A AC D3          284      asc ",S"
1C8C 5C            285      byt DEC1CMD
1C8D 1E 40          286      adr DISKSLOT
1C8F AC C4          287      asc ",D"
1C91 5C            288      byt DEC1CMD
1C92 1F 40          289      adr DISKDRV
1C94 AC C1 A4       290      asc ",A$"
1C97 5B 00          291      byt ADRCMD,DIRECT
1C99 00 43          292      adr SLOTBUFR
1C9B AC CC A4       293      asc ",L$100"
1C9E B1 B0 B0
1CA1 8D 84          294      byt RETURN,CTRLD
1CA3 C2 D3 C1       295      asc "BSAVE CFFA_ROM_"
1CA6 D6 C5 A0
1CA9 C3 C6 C6
1CAC C1 DF D2
1CAF CF CD DF
1CB2 56 00          296      byt BUFRCMD,DIRECT
1CB4 C1 3E          297      adr VERSION
1CB6 AC C1 A4       298      asc ",A$"
1CB9 5B 00          299      byt ADRCMD,DIRECT
1CBB 00 45          300      adr ROMBUFR
1CBD AC CC A4       301      asc ",L$800"
1CC0 B8 B0 B0
1CC3 8D            302      byt RETURN
1CC4 50            303      byt RTNCMD
1CC5              304      ;
1CC5 4C 74 11      305      jmp STATOKAY
1CC8              306      ;
1CC8 60            307      ^1    rts
1CC9              308      ;
1CC9              309      ;
1CC9 20 F2 37      310      DOLDFRM jsr PRINT
1CCC 00 6D          311      hex 006D
1CCE C6 E9 EC       312      asc "Filenames - CFFA_SLOT_"
1CD1 E5 EE E1
1CD4 ED E5 F3

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1CD7 A0 AD A0
1CDA C3 C6 C6
1CDD C1 DF D3
1CE0 CC CF D4
1CE3 DF
1CE4 56 00      313      byt BUFRCMD,DIRECT
1CE6 C1 3E      314      adr VERSION
1CE8 8D         315      byt RETURN
1CE9 0C         316      hex 0C
1CEA C3 C6 C6   317      asc "CFFA_ROM_"
1CED C1 DF D2
1CF0 CF CD DF
1CF3 56 00      318      byt BUFRCMD,DIRECT
1CF5 C1 3E      319      adr VERSION
1CF7 00 71      320      hex 0071
1CF9 C9 EE F3   321      asc "Install Firmware -"
1CFC F4 E1 EC
1CFF EC A0 C6
1D02 E9 F2 ED
1D05 F7 E1 F2
1D08 E5 A0 AD
1D0B 50         322      byt RTNCMD
1D0C           323      ;
1D0C 20 F8 10   324      jsr GETYORN
1D0F B0 61      325      bcs >1
1D11           326      ;
1D11 F0 5F      327      beq >1
1D13           328      ;
1D13 20 F2 37   329      jsr PRINT
1D16 8D 84      330      byt RETURN,CTRLD
1D18 C2 CC CF   331      asc "BLOAD CFFA_SLOT_"
1D1B C1 C4 A0
1D1E C3 C6 C6
1D21 C1 DF D3
1D24 CC CF D4
1D27 DF
1D28 56 00      332      byt BUFRCMD,DIRECT
1D2A C1 3E      333      adr VERSION
1D2C AC D3      334      asc ",S"
1D2E 5C         335      byt DEC1CMD
1D2F 1E 40      336      adr DISKSLOT
1D31 AC C4      337      asc ",D"
1D33 5C         338      byt DEC1CMD
1D34 1F 40      339      adr DISKDRV
1D36 AC C1 A4   340      asc ",A$"
1D39 5B 00      341      byt ADRCMD,DIRECT
1D3B 00 43      342      adr SLOTBUFR
1D3D 8D 84      343      byt RETURN,CTRLD
1D3F C2 CC CF   344      asc "BLOAD CFFA_ROM_"
1D42 C1 C4 A0
1D45 C3 C6 C6
1D48 C1 DF D2
1D4B CF CD DF
1D4E 56 00      345      byt BUFRCMD,DIRECT
1D50 C1 3E      346      adr VERSION
1D52 AC C1 A4   347      asc ",A$"
1D55 5B 00      348      byt ADRCMD,DIRECT
1D57 00 45      349      adr ROMBUFR
1D59 8D         350      byt RETURN
1D5A 50         351      byt RTNCMD
1D5B           352      ;

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```

1D5B 20 58 26      353      jsr MODROM
1D5E B0 12         354      bcs >1
1D60              355      ;
1D60 20 66 29     356      jsr WRITCF
1D63 B0 0D         357      bcs >1
1D65              358      ;
1D65 20 F1 33     359      jsr SAVECF
1D68 B0 08         360      bcs >1
1D6A              361      ;
1D6A A9 FF         362      lda #NEGONE
1D6C 8D 0D 40     363      sta CFFAKEY
1D6F              364      ;
1D6F 20 74 11     365      jsr STATOKAY
1D72              366      ;
1D72 60           367      ^1    rts
1D73              368      ;
1D73              369      ;
1D73 20 F2 37     370      DOLDLBA jsr PRINT
1D76 08 6D         371      hex 086D
1D78 C6 E9 EC     372      asc "Filename - CFFA_LBA_"
1D7B E5 EE E1
1D7E ED E5 A0
1D81 AD A0 C3
1D84 C6 C6 C1
1D87 DF CC C2
1D8A C1 DF
1D8C 57           373      byt NIBLCMD
1D8D 41 40         374      adr LBA
1D8F 5A 03         375      byt BYTNCMD,3
1D91 42 40         376      adr LBA+1
1D93 00 6F         377      hex 006F
1D95 D2 E5 F3     378      asc "Restore this LBA -"
1D98 F4 EF F2
1D9B E5 A0 F4
1D9E E8 E9 F3
1DA1 A0 CC C2
1DA4 C1 A0 AD
1DA7 50           379      byt RTNCMD
1DA8              380      ;
1DA8 20 F8 10     381      jsr GETYORN
1DAB B0 62         382      bcs >3
1DAD              383      ;
1DAD F0 60         384      beq >3
1DAF              385      ;
1DAF 20 F2 37     386      jsr PRINT
1DB2 8D 84         387      byt RETURN,CTRLD
1DB4 C2 CC CF     388      asc "BLOAD CFFA_LBA_"
1DB7 C1 C4 A0
1DBA C3 C6 C6
1DBD C1 DF CC
1DC0 C2 C1 DF
1DC3 57           389      byt NIBLCMD
1DC4 41 40         390      adr LBA
1DC6 5A 03         391      byt BYTNCMD,3
1DC8 42 40         392      adr LBA+1
1DCA AC D3         393      asc ",S"
1DCC 5C           394      byt DEC1CMD
1DCD 1E 40         395      adr DISKSLOT
1DCF AC C4         396      asc ",D"
1DD1 5C           397      byt DEC1CMD
1DD2 1F 40         398      adr DISKDRV

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```

1DD4 AC C1 A4      399      asc ",A$"
1DD7 5B 00         400      byt ADRCMD,DIRECT
1DD9 00 43         401      adr LBABUFR
1DDB 8D           402      byt RETURN
1DDC 50           403      byt RTNCMD
1DDD             404      ;
1DDD 20 F2 37      405      jsr PRINT
1DE0 00 72         406      hex 0072
1DE2 D3 E1 F6      407      asc "Save to LBA number: 0x"
1DE5 E5 A0 F4
1DE8 EF A0 CC
1DEB C2 C1 A0
1DEE EE F5 ED
1DF1 E2 E5 F2
1DF4 BA A0 A0
1DF7 B0 F8
1DF9 50           408      byt RTNCMD
1DFA             409      ;
1DFA 20 97 34      410      jsr GETHEX8
1DFD B0 10         411      bcs >3
1DFF             412      ;
1DFF AD 28 40      413      lda NENTRY
1E02 F0 03         414      beq >2
1E04             415      ;
1E04 20 68 11      416      jsr GETLBA2
1E07             417      ;
1E07 20 F4 2D      418      ^2 jsr WRITLBA2
1E0A B0 04         419      bcs >4
1E0C             420      ;
1E0C 20 74 11      421      jsr STATOKAY
1E0F             422      ;
1E0F 60           423      ^3 rts
1E10             424      ;
1E10 20 F2 37      425      ^4 jsr PRINT
1E13 00 74         426      hex 0074
1E15 56 00         427      byt BUFRCMD,DIRECT
1E17 DA 3D         428      adr MSG3
1E19 F7 F2 E9      429      asc "write selected LBA"
1E1C F4 E5 A0
1E1F F3 E5 EC
1E22 E5 E3 F4
1E25 E5 E4 A0
1E28 CC C2 C1
1E2B 50           430      byt RTNCMD
1E2C             431      ;
1E2C 4C 9A 35      432      jmp PRESKEYS
1E2F             433      ;
1E2F             434      ;
1E2F 20 F2 37      435      DOSAVLBA jsr PRINT
1E32 05 6D         436      hex 056D
1E34 C6 E9 EC      437      asc "Filename - CFFA_LBA_"
1E37 E5 EE E1
1E3A ED E5 A0
1E3D AD A0 C3
1E40 C6 C6 C1
1E43 DF CC C2
1E46 C1 DF
1E48 57           438      byt NIBLCMD
1E49 41 40         439      adr LBA
1E4B 5A 03         440      byt BYTNCMD,3
1E4D 42 40         441      adr LBA+1

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```

1E4F 00 70      442      hex 0070
1E51 D3 E1 F6   443      asc "Save this LBA -"
1E54 E5 A0 F4
1E57 E8 E9 F3
1E5A A0 CC C2
1E5D C1 A0 AD
1E60 50          444      byt RTNCMD
1E61            445      ;
1E61 20 F8 10   446      jsr GETYORN
1E64 B0 5C      447      bcs >2
1E66            448      ;
1E66 F0 5A      449      beq >2
1E68            450      ;
1E68 20 B7 2D   451      jsr READLBA2
1E6B 90 1E      452      bcc >1
1E6D            453      ;
1E6D 20 F2 37   454      jsr PRINT
1E70 00 74      455      hex 0074
1E72 56 00      456      byt BUFRCMD,DIRECT
1E74 DA 3D      457      adr MSG3
1E76 F2 E5 E1   458      asc "read selected LBA"
1E79 E4 A0 F3
1E7C E5 EC E5
1E7F E3 F4 E5
1E82 E4 A0 CC
1E85 C2 C1
1E87 50          459      byt RTNCMD
1E88            460      ;
1E88 4C 9A 35   461      jmp PRESKEYS
1E8B            462      ;
1E8B 20 F2 37   463      ^1 jsr PRINT
1E8E 8D 84      464      byt RETURN,CTRLD
1E90 C2 D3 C1   465      asc "BSAVE CFFA_LBA_"
1E93 D6 C5 A0
1E96 C3 C6 C6
1E99 C1 DF CC
1E9C C2 C1 DF
1E9F 57          466      byt NIBLCMD
1EA0 41 40      467      adr LBA
1EA2 5A 03      468      byt BYTNCMD,3
1EA4 42 40      469      adr LBA+1
1EA6 AC D3      470      asc ",S"
1EA8 5C          471      byt DEC1CMD
1EA9 1E 40      472      adr DISKSLOT
1EAB AC E4      473      asc ",d"
1EAD 5C          474      byt DEC1CMD
1EAE 1F 40      475      adr DISKDRV
1EB0 AC C1 A4   476      asc ",A$"
1EB3 5B 00      477      byt ADRCMD,DIRECT
1EB5 00 43      478      adr LBABUFR
1EB7 AC CC A4   479      asc ",L$200"
1EBA B2 B0 B0
1EBD 8D          480      byt RETURN
1EBE 50          481      byt RTNCMD
1EBF            482      ;
1EBF 20 74 11   483      jsr STATOKAY
1EC2            484      ;
1EC2 60          485      ^2 rts
1EC3            486      ;
1EC3            487      ;
1EC3 A0 00      488      DOCLRLBA ldy #ZERO

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```

1EC5 98          489          tya
1EC6            490          ;
1EC6 99 00 43    491      ^1    sta LBABUFR,Y
1EC9 99 00 44    492          sta LBABUFR+PAGESIZE,Y
1ECC            493          ;
1ECC C8          494          iny
1ECD D0 F7      495          bne <1
1ECF            496          ;
1ECF 20 F2 37    497          jsr PRINT
1ED2 00 77      498          hex 0077
1ED4 C3 EC E5    499          asc "Clearing LBA "
1ED7 E1 F2 E9
1EDA EE E7 A0
1EDD CC C2 C1
1EE0 A0
1EE1 50          500          byt RTNCMD
1EE2            501          ;
1EE2 20 E2 28    502      ^2    jsr SHOWLBA
1EE5            503          ;
1EE5 20 F4 2D    504          jsr WRITLBA2
1EE8 B0 37      505          bcs >5
1EEA            506          ;
1EEA AD 41 40    507          lda LBA
1EED CD 45 40    508          cmp LASTLBA
1EF0 D0 18      509          bne >3
1EF2            510          ;
1EF2 AD 42 40    511          lda LBA+1
1EF5 CD 46 40    512          cmp LASTLBA+1
1EF8 D0 10      513          bne >3
1EFA            514          ;
1EFA AD 43 40    515          lda LBA+2
1EFD CD 47 40    516          cmp LASTLBA+2
1F00 D0 08      517          bne >3
1F02            518          ;
1F02 AD 44 40    519          lda LBA+3
1F05 CD 48 40    520          cmp LASTLBA+3
1F08 F0 14      521          beq >4
1F0A            522          ;
1F0A EE 44 40    523      ^3    inc LBA+3
1F0D D0 D3      524          bne <2
1F0F            525          ;
1F0F EE 43 40    526          inc LBA+2
1F12 D0 CE      527          bne <2
1F14            528          ;
1F14 EE 42 40    529          inc LBA+1
1F17 D0 C9      530          bne <2
1F19            531          ;
1F19 EE 41 40    532          inc LBA
1F1C D0 C4      533          bne <2
1F1E            534          ;
1F1E 4C 74 11    535      ^4    jmp STATOKAY
1F21            536          ;
1F21 20 F2 37    537      ^5    jsr PRINT
1F24 00 74      538          hex 0074
1F26 56 00      539          byt BUFRCMD,DIRECT
1F28 DA 3D      540          adr MSG3
1F2A E3 EC E5    541          asc "clear selected LBA"
1F2D E1 F2 A0
1F30 F3 E5 EC
1F33 E5 E3 F4
1F36 E5 E4 A0

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1F39 CC C2 C1
1F3C 50          542          byt RTNCMD
1F3D          543          ;
1F3D 4C 9A 35    544          jmp PRESKEYS
1F40          545          ;
1F40          546          ;
1F40 A0 00       547 SHOWDRVS ldy #ZERO
1F42          548          ;
1F42 8C 12 40    549          sty NVOL
1F45 8C 14 40    550          sty SHOWCNT
1F48          551          ;
1F48 C8          552          iny
1F49          553          ;
1F49 8C 0F 40    554          sty NDRV
1F4C          555          ;
1F4C 20 BA 11    556 ^1      jsr RDDRVLBA
1F4F B0 38       557          bcs >5
1F51          558          ;
1F51 AD 14 40    559          lda SHOWCNT
1F54 D0 08       560          bne >2
1F56          561          ;
1F56 20 F2 37    562          jsr PRINT
1F59 00 65       563          hex 0065
1F5B 54 01       564          byt CLRCMD,EOPCLR
1F5D 50          565          byt RTNCMD
1F5E          566          ;
1F5E 20 8A 1F    567 ^2      jsr SHOWDRV
1F61          568          ;
1F61 EE 14 40    569          inc SHOWCNT
1F64          570          ;
1F64 AD 14 40    571          lda SHOWCNT
1F67 C9 10       572          cmp #16
1F69 90 08       573          bcc >3
1F6B          574          ;
1F6B 20 A1 35    575          jsr PRESKEY2
1F6E          576          ;
1F6E A9 00       577          lda #ZERO
1F70 8D 14 40    578          sta SHOWCNT
1F73          579          ;
1F73 EE 0F 40    580 ^3      inc NDRV
1F76          581          ;
1F76 AD 0F 40    582          lda NDRV
1F79 CD 10 40    583          cmp NDRVS
1F7C 90 CE       584          bcc <1
1F7E          585          ;
1F7E D0 08       586          bne >4
1F80          587          ;
1F80 AD 13 40    588          lda NVOLS
1F83 8D 12 40    589          sta NVOL
1F86          590          ;
1F86 B0 C4       591          bcs <1          ; always taken
1F88          592          ;
1F88 18          593 ^4      clc
1F89          594          ;
1F89 60          595 ^5      rts
1F8A          596          ;
1F8A          597          ;
1F8A 38          598 SHOWDRV  sec
1F8B          599          ;
1F8B AD 0F 40    600          lda NDRV
1F8E E9 01       601          sbc #1

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1F90          602 ;
1F90 29 0F    603      and #$0F
1F92 69 04    604      adc #4
1F94 85 25    605      sta CV
1F96          606 ;
1F96 20 22 FC 607      jsr VTAB
1F99          608 ;
1F99 20 F2 37 609      jsr PRINT
1F9C 02       610      hex 02
1F9D 5D       611      byt DEC2CMD
1F9E 0F 40    612      adr NDRV
1FA0 A0 A0 A0 613      asc "  "
1FA3 50       614      byt RTNCMD
1FA4          615 ;
1FA4 AD 12 40 616      lda NVOL
1FA7 D0 0B    617      bne >1
1FA9          618 ;
1FA9 20 F2 37 619      jsr PRINT
1FAC B2 B5 B6 620      asc "256 "
1FAF A0 A0    621      byt RTNCMD
1FB1 50       622 ;
1FB2 90 09    623      bcc >2                ; always taken
1FB4          624 ;
1FB4 20 F2 37 625 ^1      jsr PRINT
1FB7 5E       626      byt DEC3CMD
1FB8 12 40    627      adr NVOL
1FBA A0 A0    628      asc "  "
1FBC 50       629      byt RTNCMD
1FBD          630 ;
1FBD A0 00    631 ^2      ldy #DRVNAME
1FBF          632 ;
1FBF B1 CE    633 ^3      lda (GENPTR),Y
1FC1 10 08    634      bpl >4
1FC3          635 ;
1FC3 20 ED FD 636      jsr COUT
1FC6          637 ;
1FC6 C8       638      iny
1FC7          639 ;
1FC7 C0 18    640      cpy #NAMELEN
1FC9 D0 F4    641      bne <3
1FCB          642 ;
1FCB 60       643 ^4      rts
1FCC          644 ;
1FCC          645 ;
1FCC 20 BA 11 646 SHOWDES jsr RDDRVLBA
1FCF B0 FA    647      bcs <4
1FD1          648 ;
1FD1 20 FD 11 649      jsr SHOWDRVL
1FD4          650 ;
1FD4 20 F2 37 651      jsr PRINT
1FD7 05 67    652      hex 0567
1FD9 CE E1 ED 653      asc "Name - "
1FDC E5 A0 AD 654      byt RTNCMD
1FDF A0       655 ;
1FE1 A0 00    656      ldy #ZERO
1FE3          657 ;
1FE3 B1 CE    658 ^1      lda (GENPTR),Y
1FE5 10 08    659      bpl >2

```

```

1FE7      660      ;
1FE7 20 ED FD 661      jsr COUT
1FEA      662      ;
1FEA C8      663      iny
1FEB      664      ;
1FEB C0 18    665      cpy #NAMELEN
1FED D0 F4    666      bne <1
1FEF      667      ;
1FEF 20 F2 37 668      ^2      jsr PRINT
1FF2 00 69    669      hex 0069
1FF4 C4 E1 F4 670      asc "Date/Time -"
1FF7 E5 AF D4
1FFA E9 ED E5
1FFD A0 AD
1FFF 50      671      byt RTNCMD
2000      672      ;
2000 A0 18    673      ldy #DRVDATE
2002 A5 CF    674      lda GENPTR+1
2004      675      ;
2004 20 DD 37 676      jsr PRINTIME
2007      677      ;
2007 20 F2 37 678      jsr PRINT
200A 00 6D    679      hex 006D
200C 54 01    680      byt CLRCMD,EOPCLR
200E 55 00    681      byt CNTRCMD,DIRECT
2010 C4 E5 F3 682      asc "Description"
2013 E3 F2 E9
2016 F0 F4 E9
2019 EF EE
201B 8D 8D    683      byt RETURN,RETURN
201D 50      684      byt RTNCMD
201E      685      ;
201E A0 1E    686      ldy #DRVDESC
2020      687      ;
2020      688      ;
2020 8C 04 40 689      SHOWDESC sty SAVY
2023      690      ;
2023 A5 CF    691      lda GENPTR+1
2025 8D 06 40 692      sta SAVPTR
2028      693      ;
2028 A2 00    694      ldx #ZERO
202A      695      ;
202A B1 CE    696      ^1      lda (GENPTR),Y
202C F0 15    697      beq >4
202E      698      ;
202E E8      699      inx
202F      700      ;
202F C8      701      iny
2030 D0 02    702      bne >2
2032      703      ;
2032 E6 CF    704      inc GENPTR+1
2034      705      ;
2034 C9 A0    706      ^2      cmp #SPACE
2036 D0 03    707      bne >3
2038      708      ;
2038 8E 14 40 709      stx SHOWCNT
203B      710      ;
203B E4 21    711      ^3      cpx WNDWDTH
203D 90 EB    712      bcc <1
203F      713      ;
203F AE 14 40 714      ldx SHOWCNT

```

```

2042          715 ;
2042 CA      716 dex
2043          717 ;
2043 AC 04 40 718 ^4 ldy SAVY
2046          719 ;
2046 AD 06 40 720 lda SAVPTR
2049 85 CF    721 sta GENPTR+1
204B          722 ;
204B B1 CE   723 ^5 lda (GENPTR),Y
204D F0 1D   724 beq RTN04
204F          725 ;
204F 20 ED FD 726 jsr COUT
2052          727 ;
2052 C8       728 iny
2053 D0 02    729 bne >6
2055          730 ;
2055 E6 CF    731 inc GENPTR+1
2057          732 ;
2057 CA      733 ^6 dex
2058 D0 F1    734 bne <5
205A          735 ;
205A 20 8E FD 736 jsr CROUT
205D          737 ;
205D B1 CE   738 ^7 lda (GENPTR),Y
205F F0 0B   739 beq RTN04
2061          740 ;
2061 C9 A0    741 cmp #SPACE
2063 D0 BB    742 bne SHOWDESC
2065          743 ;
2065 C8       744 iny
2066 D0 F5    745 bne <7
2068          746 ;
2068 E6 CF    747 inc GENPTR+1
206A D0 F1    748 bne <7 ; always taken
206C          749 ;
206C 60       750 RTN04 rts
206D          751 ;
206D          752 ;
206D 20 BA 11 753 GETDRNFO jsr RDDRVLBA
2070 B0 FA    754 bcs RTN04
2072          755 ;
2072 20 FD 11 756 jsr SHOWDRV
2075          757 ;
2075 A0 17     758 ^1 ldy #NAMELEN-1
2077          759 ;
2077 B1 CE     760 ^2 lda (GENPTR),Y
2079 99 ED 3E 761 sta NAMEBUFR,Y
207C          762 ;
207C 88       763 dey
207D 10 F8    764 bpl <2
207F          765 ;
207F 20 F2 37 766 jsr PRINT
2082 04 67    767 hex 0467
2084 54 01    768 byt CLRCMD,EOPCLR
2086 CF EC E4 769 asc "Old Name - "
2089 A0 CE E1
208C ED E5 A0
208F AD A0
2091 56 00    770 byt BUFRCMD,DIRECT
2093 ED 3E    771 adr NAMEBUFR
2095 04 68    772 hex 0468

```

```

2097 CE E5 F7      773      asc "New Name - "
209A A0 CE E1
209D ED E5 A0
20A0 AD A0
20A2 50          774      byt RTNCMD
20A3          775      ;
20A3 A2 18      776      ldx #NAMELEN
20A5          777      ;
20A5 A0 ED      778      ldy #NAMEBUFR
20A7 A9 3E      779      lda /NAMEBUFR
20A9          780      ;
20A9 20 F2 27    781      jsr GETTEXTC
20AC B0 66      782      bcs >7
20AE          783      ;
20AE AD ED 3E    784      lda NAMEBUFR
20B1 F0 0F      785      beq >5
20B3          786      ;
20B3 20 CA 28    787      jsr PADBUFR
20B6          788      ;
20B6 A0 17      789      ldy #NAMELEN-1
20B8          790      ;
20B8 B9 ED 3E    791      ^4      lda NAMEBUFR,Y
20BB 91 CE      792      sta (GENPTR),Y
20BD          793      ;
20BD 88          794      dey
20BE 10 F8      795      bpl <4
20C0          796      ;
20C0 30 B3      797      bmi <1          ; always taken
20C2          798      ;
20C2 20 F2 37    799      ^5      jsr PRINT
20C5 00 68      800      hex 0068
20C7 54 00      801      byt CLRCMD,EOLCLR
20C9 03 69      802      hex 0369
20CB C4 E1 F4    803      asc "Date/Time -"
20CE E5 AF D4
20D1 E9 ED E5
20D4 A0 AD
20D6 50          804      byt RTNCMD
20D7          805      ;
20D7 A0 18      806      ldy #DRVDATE
20D9 A5 CF      807      lda GENPTR+1
20DB          808      ;
20DB 20 DD 37    809      jsr PRINTIME
20DE          810      ;
20DE 20 F2 37    811      jsr PRINT
20E1 06 6A      812      hex 066A
20E3 D5 F0 E4    813      asc "Update -"
20E6 E1 F4 E5
20E9 A0 AD
20EB 50          814      byt RTNCMD
20EC          815      ;
20EC 20 F8 10    816      jsr GETYORN
20EF B0 23      817      bcs >7
20F1          818      ;
20F1 F0 0A      819      beq >6
20F3          820      ;
20F3 A0 18      821      ldy #DRVDATE
20F5 A5 CF      822      lda GENPTR+1
20F7          823      ;
20F7 20 A9 19    824      jsr READCLK
20FA          825      ;

```

```

20FA 4C C2 20      826      jmp <5
20FD              827      ;
20FD 20 35 21      828      ^6      jsr GETDRVDS
2100 B0 12          829      bcs >7
2102              830      ;
2102 20 F2 37      831      jsr PRINT
2105 00 76          832      hex 0076
2107 54 01          833      byt CLRCMD,EOPCLR
2109 50            834      byt RTNCMD
210A              835      ;
210A 20 6B 35      836      jsr SELECT
210D B0 05          837      bcs >7
210F              838      ;
210F 20 F4 2D      839      jsr WRITLBA2
2112 B0 01          840      bcs >8
2114              841      ;
2114 60            842      ^7      rts
2115              843      ;
2115 20 F2 37      844      ^8      jsr PRINT
2118 00 74          845      hex 0074
211A 56 00          846      byt BUFRCMD,DIRECT
211C DA 3D          847      adr MSG3
211E F7 F2 E9      848      asc "write Drive Catalog"
2121 F4 E5 A0
2124 C4 F2 E9
2127 F6 E5 A0
212A C3 E1 F4
212D E1 EC EF
2130 E7
2131 50            849      byt RTNCMD
2132              850      ;
2132 4C 9A 35      851      jmp PRESKEYS
2135              852      ;
2135              853      ;
2135 20 F2 37      854      GETDRVDS jsr PRINT
2138 00 64          855      hex 0064
213A 54 01          856      byt CLRCMD,EOPCLR
213C 55 00          857      byt CNTRCMD,DIRECT
213E CF F2 E9      858      asc "Original Description"
2141 E7 E9 EE
2144 E1 EC A0
2147 C4 E5 F3
214A E3 F2 E9
214D F0 F4 E9
2150 EF EE
2152 8D 8D          859      byt RETURN,RETURN
2154 50            860      byt RTNCMD
2155              861      ;
2155 A0 1E          862      ldy #DRVDESC
2157 20 20 20      863      jsr SHOWDESC
215A              864      ;
215A 20 F2 37      865      jsr PRINT
215D 00 6D          866      hex 006D
215F 55 01          867      byt CNTRCMD,INDIRECT
2161 F1 3C          868      adr STR3.01      ; "New Description"
2163 00 6F          869      hex 006F
2165 50            870      byt RTNCMD
2166              871      ;
2166 20 79 31      872      jsr CLRDESC
2169              873      ;
2169 A2 E1          874      ldx #DRVDSLEN-1

```

```
216B      875 ;
216B A0 00      876      ldy #DESCBUFR
216D A9 41      877      lda /DESCBUFR
216F      878 ;
216F 20 F2 27   879      jsr GETTEXTC
2172 B0 20      880      bcs >4
2174      881 ;
2174 AD 00 41   882      lda DESCBUFR
2177 F0 0D      883      beq >3
2179      884 ;
2179 A2 00      885      ldx #ZERO
217B A0 1E      886      ldy #DRVDESC
217D      887 ;
217D BD 00 41   888 ^2      lda DESCBUFR,X
2180 91 CE      889      sta (GENPTR),Y
2182      890 ;
2182 E8         891      inx
2183      892 ;
2183 C8         893      iny
2184 D0 F7      894      bne <2
2186      895 ;
2186 20 F2 37   896 ^3      jsr PRINT
2189 00 6F      897      hex 006F
218B 54 01      898      byt CLRCMD,EOPCLR
218D 50        899      byt RTNCMD
218E      900 ;
218E A0 1E      901      ldy #DRVDESC
2190 20 20 20   902      jsr SHOWDESC
2193      903 ;
2193 18         904      clc
2194      905 ;
2194 60         906 ^4      rts
2195      907 ;
2195      908 ;
2195 A2 03      909 CLEARLBA ldx #LBALEN-1
2197      910 ;
2197 A9 00      911      lda #ZERO
2199      912 ;
2199 9D 41 40   913 ^1      sta LBA,X
219C      914 ;
219C CA        915      dex
219D 10 FA     916      bpl <1
219F      917 ;
219F 60        918      rts
21A0      919 ;
21A0      920 ;
```

BSAVE SEG03,A\$0900,B,L\$07F0

```
21A0      921      usr SEG03
21A0      922 ;
21A0      923 ;
21A0      924      icl "CODE4.L"
```

LLOAD CODE4.L,A\$4000

```

21A0          1          ttl "Volume Manger Source Code, CODE4.L"
21A0          2          ;
21A0          3          ;
21A0          4          ; CODE4.L
21A0          5          ;
21A0          6          ;
21A0          7          obj PAGE09
21A0          8          usr
21A0          9          ;
21A0         10          ;
21A0 20 F2 37 11  SHOWNCAT jsr PRINT
21A3 00 63    12          hex 0063
21A5 54 01    13          byt CLRCMD,EOPCLR
21A7 D3 E5 EC 14          asc "Selected Drive - "
21AA E5 E3 F4
21AD E5 E4 A0
21B0 C4 F2 E9
21B3 F6 E5 A0
21B6 AD A0
21B8 5D          15          byt DEC2CMD
21B9 0F 40      16          adr NDRV
21BB 00 65      17          hex 0065
21BD D6 EF EC   18          asc "Vol|"
21C0 FC
21C1 50          19          byt RTNCMD
21C2          20          ;
21C2 A9 F0      21          lda #!-16
21C4 8D 14 40    22          sta SHOWCNT
21C7          23          ;
21C7 20 F2 37    24          ^1 jsr PRINT
21CA A0          25          asc " "
21CB 57          26          byt NIBLCMD
21CC 14 40      27          adr SHOWCNT
21CE 50          28          byt RTNCMD
21CF          29          ;
21CF EE 14 40    30          inc SHOWCNT
21D2 D0 F3      31          bne <1
21D4          32          ;
21D4 20 8E FD    33          jsr CROUT
21D7          34          ;
21D7 A0 25      35          ldy #37
21D9          36          ;
21D9 A9 AD      37          lda #MINUS
21DB          38          ;
21DB 20 ED FD    39          ^2 jsr COUT
21DE          40          ;
21DE 88          41          dey
21DF D0 FA      42          bne <2
21E1          43          ;
21E1 20 F2 37    44          ^3 jsr PRINT
21E4 8D          45          byt RETURN
21E5 A0          46          asc " "
21E6 58          47          byt BYT1CMD
21E7 14 40      48          adr SHOWCNT
21E9 FC          49          asc "| "
21EA 50          50          byt RTNCMD
21EB          51          ;
21EB A9 10      52          lda #16
21ED 8D 15 40    53          sta LINECNT
21F0          54          ;

```

```

21F0 AD 14 40      55 ^4      lda SHOWCNT
21F3              56 ;
21F3 20 0D 36      57      jsr GETVTOC
21F6 B0 2E         58      bcs >6
21F8              59 ;
21F8 A2 00         60      ldx #ZERO
21FA              61 ;
21FA AD 00 43      62      lda VTOCSB
21FD D0 0A         63      bne >5
21FF              64 ;
21FF AD 01 43      65      lda FRSTTRK
2202 C9 11         66      cmp #VTOCTRK
2204 D0 03         67      bne >5
2206              68 ;
2206 AE 02 43      69      ldx FRSTSEC
2209              70 ;
2209 8E 05 40      71 ^5      stx SAVNUM
220C              72 ;
220C 20 F2 37      73      jsr PRINT
220F A0            74      asc " "
2210 57            75      byt NIBLCMD
2211 05 40         76      adr SAVNUM
2213 50            77      byt RTNCMD
2214              78 ;
2214 EE 14 40      79      inc SHOWCNT
2217              80 ;
2217 AD 14 40      81      lda SHOWCNT
221A CD 11 40      82      cmp NVOLMAX
221D F0 07         83      beq >6
221F              84 ;
221F CE 15 40      85      dec LINECNT
2222 D0 CC         86      bne <4
2224              87 ;
2224 F0 BB         88      beq <3          ; always taken
2226              89 ;
2226 4C A9 35      90 ^6      jmp PRESKEY
2229              91 ;
2229              92 ;
2229 AD 01 43      93 INITVTOC lda FRSTTRK
222C F0 09         94      beq >1
222E              95 ;
222E AD 03 43      96      lda DOSVRSN
2231 C9 10         97      cmp #$10
2233 B0 05         98      bcs >2
2235              99 ;
2235 A9 33         100     lda #$33
2237              101 ;
2237 8D 03 43      102 ^1      sta DOSVRSN
223A              103 ;
223A AD 08 43      104 ^2      lda DISKNAME
223D 0D 09 43      105     ora DISKNAME+1
2240 D0 0A         106     bne >4
2242              107 ;
2242 A0 17         108     ldy #NAMELEN-1
2244              109 ;
2244 A9 A0         110     lda #SPACE
2246              111 ;
2246 99 08 43      112 ^3      sta DISKNAME,Y
2249              113 ;
2249 88           114     dey
224A 10 FA        115     bpl <3

```

```

224C      116 ;
224C 60    117 ^4      rts
224D      118 ;
224D      119 ;
224D 20 FD 22 120 SHOWBMAP jsr SHOWDVOL
2250      121 ;
2250 20 0A 36 122      jsr GETVTOC2
2253 90 03    123      bcc >1
2255      124 ;
2255 4C 9B 35 125      jmp PRESKEYA
2258      126 ;
2258 20 F2 37 127 ^1      jsr PRINT
225B 00 66    128      hex 0066
225D D4 F2 EB 129      asc "Trk|C840C840 C840C840 C840C840 C840C840"
2260 FC C3 B8
2263 B4 B0 C3
2266 B8 B4 B0
2269 A0 C3 B8
226C B4 B0 C3
226F B8 B4 B0
2272 A0 C3 B8
2275 B4 B0 C3
2278 B8 B4 B0
227B A0 C3 B8
227E B4 B0 C3
2281 B8 B4 B0
2284 8D      130      byt RETURN
2285 CE F5 ED 131      asc "Num|FB73FB73 FB73FB73 FB73FB73 FB73FB73"
2288 FC C6 C2
228B B7 B3 C6
228E C2 B7 B3
2291 A0 C6 C2
2294 B7 B3 C6
2297 C2 B7 B3
229A A0 C6 C2
229D B7 B3 C6
22A0 C2 B7 B3
22A3 A0 C6 C2
22A6 B7 B3 C6
22A9 C2 B7 B3
22AC 8D      132      byt RETURN
22AD 50      133      byt RTNCMD
22AE      134 ;
22AE A0 27    135      ldy #39
22B0      136 ;
22B0 A9 AD    137      lda #MINUS
22B2      138 ;
22B2 20 ED FD 139 ^2      jsr COUT
22B5      140 ;
22B5 88      141      dey
22B6 D0 FA    142      bne <2
22B8      143 ;
22B8 8C 14 40 144      sty SHOWCNT
22BB      145 ;
22BB 20 8E FD 146 ^3      jsr CROUT
22BE      147 ;
22BE A9 04    148      lda #4
22C0 8D 15 40 149      sta LINECNT
22C3      150 ;
22C3 20 F2 37 151      jsr PRINT
22C6 A0      152      asc " "

```

```

22C7 58          153          byt BYT1CMD
22C8 14 40       154          adr SHOWCNT
22CA 50          155          byt RTNCMD
22CB           156          ;
22CB A9 FC       157          lda #BAR
22CD           158          ;
22CD 20 ED FD    159          ^4      jsr COUT
22D0           160          ;
22D0 AD 14 40    161          lda SHOWCNT
22D3           162          ;
22D3 0A          163          asl
22D4 0A          164          asl
22D5           165          ;
22D5 69 38       166          adc #BITMAP
22D7 8D DF 22    167          sta SHOWMOD
22DA           168          ;
22DA 20 F2 37    169          jsr PRINT
22DD 5A 04       170          byt BYTNCMD,4
22DF 00 43       171          SHOWMOD  adr VTOCBUFR
22E1 50          172          byt RTNCMD
22E2           173          ;
22E2 EE 14 40    174          inc SHOWCNT
22E5           175          ;
22E5 AD 14 40    176          lda SHOWCNT
22E8 CD 34 43    177          cmp NUMTRKS
22EB F0 0D       178          beq >5
22ED           179          ;
22ED C9 32       180          cmp #MAXTRKS
22EF F0 09       181          beq >5
22F1           182          ;
22F1 A9 A0       183          lda #SPACE
22F3           184          ;
22F3 CE 15 40    185          dec LINECNT
22F6 D0 D5       186          bne <4
22F8           187          ;
22F8 F0 C1       188          beq <3          ; always taken
22FA           189          ;
22FA 4C A1 35    190          ^5      jmp PRESKEY2
22FD           191          ;
22FD           192          ;
22FD 20 F2 37    193          SHOWDVOL jsr PRINT
2300 00 63       194          hex 0063
2302 54 01       195          byt CLRCMD,EOPCLR
2304 D3 E5 EC    196          asc "Selected Drive/Volume - "
2307 E5 E3 F4
230A E5 E4 A0
230D C4 F2 E9
2310 F6 E5 AF
2313 D6 EF EC
2316 F5 ED E5
2319 A0 AD A0
231C 5D          197          byt DEC2CMD
231D 0F 40       198          adr NDRV
231F AF          199          asc "/"
2320 5E          200          byt DEC3CMD
2321 12 40       201          adr NVOL
2323 50          202          byt RTNCMD
2324           203          ;
2324 60          204          rts
2325           205          ;
2325           206          ;

```

```

2325 A5 24      207 SELCMEM  lda CH
2327 8D 00 40   208          sta SAVCH
232A           209 ;
232A 2C 00 00   210          bit *-*
232D           211          dfs !-2
232B           212 ;
232B A2 00      213 ^0          ldx #ZERO
232D           214 ;
232D BC 6A 23   215 ^1          ldy SMEMADRL,X
2330 BD 6D 23   216          lda SMEMADRH,X
2333           217 ;
2333 20 81 24   218          jsr SETPTR
2336           219 ;
2336 20 F2 37   220          jsr PRINT
2339 A0          221          asc " "
233A 52 00      222 SMEEMOD1 byt DISPCMD,NORMDISP
233C CD C1 C9   223          asc "MAIN"
233F CE
2340 52 00      224          byt DISPCMD,NORMDISP
2342 A0 A0      225          asc " "
2344 52 00      226 SMEEMOD2 byt DISPCMD,NORMDISP
2346 D2 C1 CD   227          asc "RAM1"
2349 B1
234A 52 00      228          byt DISPCMD,NORMDISP
234C A0 A0      229          asc " "
234E 52 00      230 SMEEMOD3 byt DISPCMD,NORMDISP
2350 D2 C1 CD   231          asc "RAM2"
2353 B2
2354 52 00      232          byt DISPCMD,NORMDISP
2356 50          233          byt RTNCMD
2357           234 ;
2357 20 F4 35   235          jsr SELCKEY
235A B0 0D      236          bcs >3
235C           237 ;
235C F0 0B      238          beq >3
235E           239 ;
235E 8A         240          txa
235F 10 02      241          bpl >2
2361           242 ;
2361 A2 02      243          ldx #2
2363           244 ;
2363 C9 03      245 ^2          cmp #3
2365 D0 C6      246          bne <1
2367           247 ;
2367 F0 C2      248          beq <0                ; always taken
2369           249 ;
2369 60         250 ^3          rts
236A           251 ;
236A           252 ;
236A           253 SMEMADRL:
236A 3B         254          byt SMEEMOD1+1
236B 45         255          byt SMEEMOD2+1
236C 4F         256          byt SMEEMOD3+1
236D           257 ;
236D           258 SMEMADRH:
236D 23         259          hby SMEEMOD1+1
236E 23         260          hby SMEEMOD2+1
236F 23         261          hby SMEEMOD3+1
2370           262 ;
2370           263 ;
2370 A5 24      264 SELCTRK  lda CH

```

```

2372 8D 00 40      265          sta SAVCH
2375              266          ;
2375 A2 00         267          ^0          ldx #ZERO
2377              268          ;
2377 BC B6 23     269          ^1          ldy TRKTBLL,X
237A BD BA 23     270          lda TRKTBLH,X
237D              271          ;
237D 20 81 24     272          jsr SETPTR
2380              273          ;
2380 20 F2 37     274          jsr PRINT
2383 A0           275          asc " "
2384 52 00        276          TRKMOD1 byt DISPCMD,NORMDISP
2386 B3 B5        277          asc "35"
2388 52 00        278          byt DISPCMD,NORMDISP
238A A0 A0        279          asc " "
238C 52 00        280          TRKMOD2 byt DISPCMD,NORMDISP
238E B3 B6        281          asc "36"
2390 52 00        282          byt DISPCMD,NORMDISP
2392 A0 A0        283          asc " "
2394 52 00        284          TRKMOD3 byt DISPCMD,NORMDISP
2396 B4 B0        285          asc "40"
2398 52 00        286          byt DISPCMD,NORMDISP
239A A0 A0        287          asc " "
239C 52 00        288          TRKMOD4 byt DISPCMD,NORMDISP
239E B4 B8        289          asc "48"
23A0 52 00        290          byt DISPCMD,NORMDISP
23A2 50           291          byt RTNCMD
23A3              292          ;
23A3 20 F4 35     293          jsr SELCKEY
23A6 B0 0D        294          bcs >3
23A8              295          ;
23A8 F0 0B        296          beq >3
23AA              297          ;
23AA 8A           298          txa
23AB 10 02        299          bpl >2
23AD              300          ;
23AD A2 03        301          ldx #3
23AF              302          ;
23AF C9 04        303          ^2          cmp #4
23B1 D0 C4        304          bne <1
23B3              305          ;
23B3 F0 C0        306          beq <0          ; always taken
23B5              307          ;
23B5 60           308          ^3          rts
23B6              309          ;
23B6              310          ;
23B6              311          TRKTBLL:
23B6 85           312          byt TRKMOD1+1
23B7 8D           313          byt TRKMOD2+1
23B8 95           314          byt TRKMOD3+1
23B9 9D           315          byt TRKMOD4+1
23BA              316          ;
23BA              317          TRKTBLH:
23BA 23           318          hby TRKMOD1+1
23BB 23           319          hby TRKMOD2+1
23BC 23           320          hby TRKMOD3+1
23BD 23           321          hby TRKMOD4+1
23BE              322          ;
23BE              323          ;
23BE A5 24        324          SELCSEC lda CH
23C0 8D 00 40     325          sta SAVCH

```

```

23C3          326 ;
23C3 A2 00    327 ^0      ldx #ZERO
23C5          328 ;
23C5 BC F4 23 329 ^1      ldy SECTBLL,X
23C8 BD F6 23 330          lda SECTBLH,X
23CB          331 ;
23CB 20 81 24 332          jsr SETPTR
23CE          333 ;
23CE 20 F2 37 334          jsr PRINT
23D1 A0        335          asc " "
23D2 52 00    336 SECMOD1  byt DISPCMD,NORMDISP
23D4 B1 B6    337          asc "16"
23D6 52 00    338          byt DISPCMD,NORMDISP
23D8 A0 A0    339          asc " "
23DA 52 00    340 SECMOD2  byt DISPCMD,NORMDISP
23DC B3 B2    341          asc "32"
23DE 52 00    342          byt DISPCMD,NORMDISP
23E0 50        343          byt RTNCMD
23E1          344 ;
23E1 20 F4 35 345          jsr SELCKEY
23E4 B0 0D    346          bcs >3
23E6          347 ;
23E6 F0 0B    348          beq >3
23E8          349 ;
23E8 8A        350          txa
23E9 10 02    351          bpl >2
23EB          352 ;
23EB A2 01    353          ldx #1
23ED          354 ;
23ED C9 02    355 ^2      cmp #2
23EF D0 D4    356          bne <1
23F1          357 ;
23F1 F0 D0    358          beq <0          ; always taken
23F3          359 ;
23F3 60        360 ^3      rts
23F4          361 ;
23F4          362 ;
23F4          363 SECTBLL:
23F4 D3        364          byt SECMOD1+1
23F5 DB        365          byt SECMOD2+1
23F6          366 ;
23F6          367 SECTBLH:
23F6 23        368          hby SECMOD1+1
23F7 23        369          hby SECMOD2+1
23F8          370 ;
23F8          371 ;
23F8 A5 24    372 SELCTYP  lda CH
23FA 8D 00 40 373          sta SAVCH
23FD          374 ;
23FD A2 00    375 ^0      ldx #ZERO
23FF          376 ;
23FF BC 2C 24 377 ^1      ldy TYPTBLL,X
2402 BD 2E 24 378          lda TYPTBLH,X
2405          379 ;
2405 20 81 24 380          jsr SETPTR
2408          381 ;
2408 20 F2 37 382          jsr PRINT
240B A0        383          asc " "
240C 52 00    384 TYPMOD1  byt DISPCMD,NORMDISP
240E C2        385          asc "B"
240F 52 00    386          byt DISPCMD,NORMDISP

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2411 A0 A0      387      asc " "
2413 52 00      388      TYPMOD2 byt DISPCMD,NORMDISP
2415 C4         389      asc "D"
2416 52 00      390      byt DISPCMD,NORMDISP
2418 50         391      byt RTNCMD
2419          392      ;
2419 20 F4 35    393      jsr SELCKEY
241C B0 0D      394      bcs >3
241E          395      ;
241E F0 0B      396      beq >3
2420          397      ;
2420 8A         398      txa
2421 10 02      399      bpl >2
2423          400      ;
2423 A2 01      401      ldx #1
2425          402      ;
2425 C9 02      403      ^2      cmp #2
2427 D0 D6      404      bne <1
2429          405      ;
2429 F0 D2      406      beq <0      ; always taken
242B          407      ;
242B 60         408      ^3      rts
242C          409      ;
242C          410      ;
242C          411      TYPTBLL:
242C 0D         412      byt TYPMOD1+1
242D 14         413      byt TYPMOD2+1
242E          414      ;
242E          415      TYPTBLH:
242E 24         416      hby TYPMOD1+1
242F 24         417      hby TYPMOD2+1
2430          418      ;
2430          419      ;
2430 A5 24      420      SELCBOOT lda CH
2432 8D 00 40   421      sta SAVCH
2435          422      ;
2435 A2 00      423      ^0      ldx #ZERO
2437          424      ;
2437 BC 7B 24   425      ^1      ldY BOOTTBLL,X
243A BD 7E 24   426      lda BOOTTBLLH,X
243D          427      ;
243D 20 81 24   428      jsr SETPTR
2440          429      ;
2440 20 F2 37   430      jsr PRINT
2443 A0         431      asc " "
2444 52 00      432      BOOTMOD1 byt DISPCMD,NORMDISP
2446 C1 D0 D0   433      asc "APPLESOFT"
2449 CC C5 D3
244C CF C6 D4
244F 52 00      434      byt DISPCMD,NORMDISP
2451 A0 A0      435      asc " "
2453 52 00      436      BOOTMOD2 byt DISPCMD,NORMDISP
2455 C2 C9 CE   437      asc "BINARY"
2458 C1 D2 D9
245B 52 00      438      byt DISPCMD,NORMDISP
245D A0 A0      439      asc " "
245F 52 00      440      BOOTMOD3 byt DISPCMD,NORMDISP
2461 C5 D8 C5   441      asc "EXEC"
2464 C3
2465 52 00      442      byt DISPCMD,NORMDISP
2467 50         443      byt RTNCMD

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```

2468      444 ;
2468 20 F4 35 445      jsr SELCKEY
246B B0 0D 446      bcs >3
246D      447 ;
246D F0 0B 448      beq >3
246F      449 ;
246F 8A 450      txa
2470 10 02 451      bpl >2
2472      452 ;
2472 A2 02 453      ldx #2
2474      454 ;
2474 C9 03 455      ^2      cmp #3
2476 D0 BF 456      bne <1
2478      457 ;
2478 F0 BB 458      beq <0      ; always taken
247A      459 ;
247A 60 460      ^3      rts
247B      461 ;
247B      462 ;
247B      463 BOOTTBLL:
247B 45 464      byt BOOTMOD1+1
247C 54 465      byt BOOTMOD2+1
247D 60 466      byt BOOTMOD3+1
247E      467 ;
247E      468 BOOTTBLLH:
247E 24 469      hby BOOTMOD1+1
247F 24 470      hby BOOTMOD2+1
2480 24 471      hby BOOTMOD3+1
2481      472 ;
2481      473 ;
2481 8C 92 24 474      SETPTR      sty PTRMOD+1
2484 8D 93 24 475      sta PTRMOD+2
2487      476 ;
2487 AD 00 40 477      lda SAVCH
248A 85 24 478      sta CH
248C      479 ;
248C A9 01 480      lda #INVRDISP
248E      481 ;
248E 2C 00 00 482      bit *-*
2491      483      dfs !-2
248F      484 ;
248F A9 00 485      CLRPTR      lda #NORMDISP
2491      486 ;
2491 8D 00 00 487      PTRMOD      sta *-*
2494      488 ;
2494 60 489      rts
2495      490 ;
2495      491 ;
2495 A0 00 492      CHKWPCF      ldy #ZERO
2497 84 EC 493      sty SLOTPTR
2499      494 ;
2499 AD 22 40 495      lda CFPAGE
249C 85 ED 496      sta SLOTPTR+1
249E      497 ;
249E 2C FF CF 498      bit CLRROM
24A1      499 ;
24A1 B1 EC 500      lda (SLOTPTR),Y
24A3 49 FF 501      eor #NEGONE
24A5 91 EC 502      sta (SLOTPTR),Y
24A7      503 ;
24A7 48 504      pha

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24A8          505 ;
24A8 A9 07    506      lda #WAIT225U
24AA 20 E3 2C 507      jsr CFWAIT
24AD          508 ;
24AD 68       509      pla
24AE          510 ;
24AE D1 EC    511      cmp (SLOTPTR),Y
24B0 D0 0E    512      bne >1
24B2          513 ;
24B2 49 FF    514      eor #NEGONE
24B4 91 EC    515      sta (SLOTPTR),Y
24B6          516 ;
24B6 A9 07    517      lda #WAIT225U
24B8 20 E3 2C 518      jsr CFWAIT
24BB          519 ;
24BB 2C FF CF 520      bit CLRROM
24BE          521 ;
24BE 18       522      clc
24BF          523 ;
24BF 60       524      rts
24C0          525 ;
24C0 2C FF CF 526      bit CLRROM
24C3          527 ;
24C3 20 F2 37 528      jsr PRINT
24C6 00 74    529      hex 0074
24C8 54 01    530      byt CLRCMD,EOPCLR
24CA D3 F4 E1 531      asc "Status:  CFFA ROM is write-protected"
24CD F4 F5 F3
24D0 BA A0 A0
24D3 C3 C6 C6
24D6 C1 A0 D2
24D9 CF CD A0
24DC E9 F3 A0
24DF F7 F2 E9
24E2 F4 E5 AD
24E5 F0 F2 EF
24E8 F4 E5 E3
24EB F4 E5 E4
24EE 50       532      byt RTNCMD
24EF          533 ;
24EF          534      .if DEBUG
24EF          535      jmp PRESKEYC
24EF          536      .el
24EF 4C 9A 35 537      jmp PRESKEYS
24F2          538      .fi
24F2          539 ;
24F2          540 ;
24F2 A9 00    541      CHKFWCF  lda #ZERO
24F4 85 EC    542      sta SLOTPTR
24F6          543 ;
24F6 AD 22 40 544      lda CFPAGE
24F9 85 ED    545      sta SLOTPTR+1
24FB          546 ;
24FB 2C FF CF 547      bit CLRROM
24FE          548 ;
24FE A2 00    549      ldx #ZERO
2500 A0 00    550      ldy #ROMSIG-ROMBUFR
2502          551 ;
2502 B1 EC    552      lda (SLOTPTR),Y
2504          553 ;
2504 BD 6B 3E 554      ^2      lda SIGNUM,X

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```

2507 D9 00 C8      555      cmp PAGEC8,Y
250A D0 0B        556      bne >3
250C              557      ;
250C E8           558      inx
250D C8           559      iny
250E              560      ;
250E E0 04        561      cpx #SIGNUMLN
2510 D0 F2        562      bne <2
2512              563      ;
2512 2C FF CF      564      bit CLRROM
2515              565      ;
2515 18           566      clc
2516              567      ;
2516 60           568      RTN01 rts
2517              569      ;
2517 2C FF CF      570      ^3 bit CLRROM
251A              571      ;
251A              572      .if DEBUG
251A              573      jmp PRESKEYC
251A              574      .el
251A 20 F2 37      575      jsr PRINT
251D 00 74         576      hex 0074
251F 54 01         577      byt CLRCMD,EOPCLR
2521 D3 F4 E1      578      asc "Status:  DOS 4.5 Firmware not installed"
2524 F4 F5 F3
2527 BA A0 A0
252A C4 CF D3
252D A0 B4 AE
2530 B5 A0 C6
2533 E9 F2 ED
2536 F7 E1 F2
2539 E5 A0 EE
253C EF F4 A0
253F E9 EE F3
2542 F4 E1 EC
2545 EC E5 E4
2548 50           579      byt RTNCMD
2549              580      ;
2549 4C 9A 35      581      jmp PRESKEYS
254C              582      .fi
254C              583      ;
254C              584      ;
254C 20 62 2D      585      EXTRDATA jsr READID
254F B0 C5         586      bcs RTN01
2551              587      ;
2551 AE 02 43      588      ldx IDBUFR+IDCYLOFF
2554 AD 03 43      589      lda IDBUFR+IDCYLOFF+1
2557              590      ;
2557 8D 37 40      591      sta IDCYLNUM
255A 8E 38 40      592      stx IDCYLNUM+1
255D              593      ;
255D AE 06 43      594      ldx IDBUFR+IDHDSOFF
2560 AD 07 43      595      lda IDBUFR+IDHDSOFF+1
2563              596      ;
2563 8D 39 40      597      sta IDHDSNUM
2566 8E 3A 40      598      stx IDHDSNUM+1
2569              599      ;
2569 AE 0C 43      600      ldx IDBUFR+IDSPTOFF
256C AD 0D 43      601      lda IDBUFR+IDSPTOFF+1
256F              602      ;
256F 8D 3B 40      603      sta IDSPTNUM

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2572 8E 3C 40      604      stx IDSPTNUM+1
2575              605      ;
2575 A2 00          606      ldx #ZERO
2577 A0 03          607      ldy #LBALEN-1
2579              608      ;
2579 B9 78 43      609      ^1      lda IDBUFR+IDLBAOFF,Y
257C 9D 3D 40      610      sta IDLBANUM,X
257F              611      ;
257F E8            612      inx
2580              613      ;
2580 88            614      dey
2581 10 F6          615      bpl <1
2583              616      ;
2583 A2 00          617      ldx #ZERO
2585 A0 00          618      ldy #ZERO
2587              619      ;
2587 B9 14 43      620      ^2      lda IDBUFR+IDSRLOFF,Y
258A 99 5A 40      621      sta INSRLBUF,Y
258D              622      ;
258D 48            623      pha
258E              624      ;
258E B9 15 43      625      lda IDBUFR+IDSRLOFF+1,Y
2591 99 5B 40      626      sta INSRLBUF+1,Y
2594              627      ;
2594 09 80          628      ora #ASCIFLAG
2596 C9 A0          629      cmp #SPACE
2598 F0 04          630      beq >3
259A              631      ;
259A 9D 6E 40      632      sta IDSRLBUF,X
259D              633      ;
259D E8            634      inx
259E              635      ;
259E C8            636      ^3      iny
259F              637      ;
259F 68            638      pla
25A0 09 80          639      ora #ASCIFLAG
25A2              640      ;
25A2 C9 A0          641      cmp #SPACE
25A4 F0 04          642      beq >4
25A6              643      ;
25A6 9D 6E 40      644      sta IDSRLBUF,X
25A9              645      ;
25A9 E8            646      inx
25AA              647      ;
25AA C8            648      ^4      iny
25AB              649      ;
25AB C0 14          650      cpy #IDSRLLEN
25AD D0 D8          651      bne <2
25AF              652      ;
25AF A0 00          653      ldy #ZERO
25B1              654      ;
25B1 B9 2E 43      655      ^5      lda IDBUFR+IDFRMOFF,Y
25B4 48            656      pha
25B5              657      ;
25B5 B9 2F 43      658      lda IDBUFR+IDFRMOFF+1,Y
25B8 09 80          659      ora #ASCIFLAG
25BA 99 83 40      660      sta IDFRMBUF,Y
25BD              661      ;
25BD C8            662      iny
25BE              663      ;
25BE 68            664      pla

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```

25BF 09 80      665      ora #ASCIFLAG
25C1 99 83 40   666      sta IDFRMBUF,Y
25C4           667      ;
25C4 C8         668      iny
25C5           669      ;
25C5 C0 08      670      cpy #IDFRMLEN
25C7 D0 E8      671      bne <5
25C9           672      ;
25C9 A0 00      673      ldy #ZERO
25CB           674      ;
25CB B9 36 43   675      ^6  lda IDBUFR+IDMDLOFF,Y
25CE 48         676      pha
25CF           677      ;
25CF B9 37 43   678      lda IDBUFR+IDMDLOFF+1,Y
25D2 09 80      679      ora #ASCIFLAG
25D4 99 8C 40   680      sta IDMDLBUF,Y
25D7           681      ;
25D7 C8         682      iny
25D8           683      ;
25D8 68         684      pla
25D9 09 80      685      ora #ASCIFLAG
25DB 99 8C 40   686      sta IDMDLBUF,Y
25DE           687      ;
25DE C8         688      iny
25DF           689      ;
25DF C0 18      690      cpy #IDMDLLEN
25E1 D0 E8      691      bne <6
25E3           692      ;
25E3 AE 24 40   693      ldx CFINDEX
25E6           694      ;
25E6           695      ;
25E6 BD 59 3E   696      EXTRAD  lda CFSIZE,X
25E9 8D 0E 40   697      sta NSIZE
25EC           698      ;
25EC BD 5F 3E   699      lda CFDRIVES,X
25EF 8D 10 40   700      sta NDRVS
25F2           701      ;
25F2 BD 65 3E   702      lda EXTRVOLS,X
25F5 8D 13 40   703      sta NVOLS
25F8           704      ;
25F8 18         705      clc
25F9           706      ;
25F9 AC 10 40   707      ldy NDRVS
25FC 88         708      dey      ; last drive is not full
25FD           709      ;
25FD A9 00      710      lda #ZERO
25FF 8D 4D 40   711      sta FRSTFREE
2602 8D 50 40   712      sta FRSTFREE+3
2605           713      ;
2605 69 03      714      ^1  adc /DRVSIZE      ; divided by 0x10000
2607 90 04      715      bcc >2
2609           716      ;
2609 18         717      clc
260A           718      ;
260A EE 4D 40   719      inc FRSTFREE
260D           720      ;
260D 88         721      ^2  dey
260E D0 F5      722      bne <1
2610           723      ;
2610 AA         724      tax
2611           725      ;

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2611 AC 13 40      726      ldy NVOLS
2614              727      ;
2614 A9 01         728      lda #1                ; offset
2616              729      ;
2616 69 03         730      ^3      adc /VOLSIZE      ; divided by 0x100
2618 90 07         731      bcc >4
261A              732      ;
261A 18           733      clc
261B              734      ;
261B E8           735      inx
261C D0 03        736      bne >4
261E              737      ;
261E EE 4D 40     738      inc FRSTFREE
2621              739      ;
2621 88           740      ^4      dey
2622 D0 F2        741      bne <3
2624              742      ;
2624 8E 4E 40     743      stx FRSTFREE+1
2627 8D 4F 40     744      sta FRSTFREE+2
262A              745      ;
262A 38           746      sec
262B              747      ;
262B AD 50 40     748      lda FRSTFREE+3
262E E9 01        749      sbc #1
2630 8D 4C 40     750      sta LASTVOL+3
2633              751      ;
2633 A2 02        752      ldx #2
2635              753      ;
2635 BD 4D 40     754      ^5      lda FRSTFREE,X
2638 E9 00        755      sbc #ZERO
263A 9D 49 40     756      sta LASTVOL,X
263D              757      ;
263D CA          758      dex
263E 10 F5        759      bpl <5
2640              760      ;
2640 38           761      sec
2641              762      ;
2641 AD 40 40     763      lda IDLBANUM+3
2644 E9 01        764      sbc #1
2646 8D 54 40     765      sta LASTFREE+3
2649              766      ;
2649 A2 02        767      ldx #2
264B              768      ;
264B BD 3D 40     769      ^6      lda IDLBANUM,X
264E E9 00        770      sbc #ZERO
2650 9D 51 40     771      sta LASTFREE,X
2653              772      ;
2653 CA          773      dex
2654 10 F5        774      bpl <6
2656              775      ;
2656 18           776      clc
2657              777      ;
2657 60           778      rts
2658              779      ;
2658              780      ;
2658 20 F2 37     781      MODROM      jsr PRINT
265B 00 66        782      hex 0066
265D 54 01        783      byt CLRCMD,EOPCLR
265F D0 EC E5     784      asc "Please provide a name for this CF card."
2662 E1 F3 E5
2665 A0 F0 F2

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2668 EF F6 E9
266B E4 E5 A0
266E E1 A0 EE
2671 E1 ED E5
2674 A0 E6 EF
2677 F2 A0 F4
267A E8 E9 F3
267D A0 C3 C6
2680 A0 E3 E1
2683 F2 E4 AE
2686 00 69      785      hex 0069
2688 CF EC E4    786      asc "Old name - "
268B A0 EE E1
268E ED E5 A0
2691 AD A0
2693 56 00      787      byt BUFRCMD,DIRECT
2695 A5 40      788      adr CFOLDNAM
2697 00 6B      789      hex 006B
2699 CE E5 F7    790      asc "New name - "
269C A0 EE E1
269F ED E5 A0
26A2 AD A0
26A4 50          791      byt RTNCMD
26A5            792      ;
26A5 A2 18      793      ldx #NAMELEN
26A7            794      ;
26A7 A0 18      795      ldy #CFNAME
26A9 A9 45      796      lda /CFNAME
26AB            797      ;
26AB 20 F2 27    798      jsr GETTEXTC
26AE B0 40      799      bcs RTN02
26B0            800      ;
26B0 AD 18 45    801      lda CFNAME
26B3 D0 0B      802      bne >2
26B5            803      ;
26B5 A0 17      804      ldy #NAMELEN-1
26B7            805      ;
26B7 B9 A5 40    806      ^1    lda CFOLDNAM,Y
26BA 99 18 45    807      sta CFNAME,Y
26BD            808      ;
26BD 88          809      dey
26BE 10 F7      810      bpl <1
26C0            811      ;
26C0 20 CA 28    812      ^2    jsr PADBUFR
26C3            813      ;
26C3 A0 30      814      ldy #CFDATE
26C5 A9 45      815      lda /CFDATE
26C7            816      ;
26C7 20 A9 19    817      jsr READCLK
26CA            818      ;
26CA AE 24 40    819      ldx CFINDEX
26CD            820      ;
26CD BD 5F 3E    821      lda CFDRIVES,X
26D0 8D 3A 45    822      sta CFMAXDRV
26D3            823      ;
26D3 BD 65 3E    824      lda EXTRVOLS,X
26D6 8D 3B 45    825      sta CFREMOVOL
26D9            826      ;
26D9 A2 03      827      ldx #LBALEN-1
26DB            828      ;
26DB BD 3D 40    829      ^3    lda IDLBANUM,X

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26DE 9D 36 45      830      sta CFLBANUM,X
26E1              831      ;
26E1 CA          832      dex
26E2 10 F7        833      bpl <3
26E4              834      ;
26E4 A0 13        835      ldy #IDSRLLEN-1
26E6              836      ;
26E6 B9 5A 40     837      ^4      lda INSRLBUF,Y
26E9 99 04 45     838      sta CFSRLBUF,Y
26EC              839      ;
26EC 88           840      dey
26ED 10 F7        841      bpl <4
26EF              842      ;
26EF 18           843      clc
26F0              844      ;
26F0 60           845      RTN02    rts
26F1              846      ;
26F1              847      ;
26F1 20 F2 37     848      ^0      jsr PRINT
26F4 00 76        849      hex 0076
26F6 D3 F4 E1     850      asc "Status:  No disk found, press any key"
26F9 F4 F5 F3
26FC BA A0 A0
26FF CE EF A0
2702 E4 E9 F3
2705 EB A0 E6
2708 EF F5 EE
270B E4 AC A0
270E F0 F2 E5
2711 F3 F3 A0
2714 E1 EE F9
2717 A0 EB E5
271A F9
271B 50           851      byt RTNCMD
271C              852      ;
271C 20 BE 35     853      jsr GETKEY
271F              854      ;
271F 20 F2 37     855      SELCDISK jsr PRINT
2722 00 64        856      hex 0064
2724 54 01        857      byt CLRCMD,EOPCLR
2726 06 66        858      hex 0666
2728 C5 EE F4     859      asc "Enter disk slot - "
272B E5 F2 A0
272E E4 E9 F3
2731 EB A0 F3
2734 EC EF F4
2737 A0 AD A0
273A 50           860      byt RTNCMD
273B              861      ;
273B 20 9C 34     862      jsr GETDEC1
273E B0 B0        863      bcs RTN02          ; note, nearest RTS
2740              864      ;
2740 AD 35 40     865      lda DECVALS
2743 F0 DA        866      beq SELCDISK
2745              867      ;
2745 C9 08        868      cmp #8
2747 B0 D6        869      bcs SELCDISK
2749              870      ;
2749 A2 18        871      ldx #DISKSIG-SIGBYTES
274B              872      ;
274B 20 68 10     873      jsr CHKSLOT

```

```

274E 90 1E      874      bcc >1
2750           875      ;
2750 AD 35 40    876      lda DECVALS
2753           877      ;
2753 A2 20       878      ldx #RAMDSIG-SIGBYTES
2755           879      ;
2755 20 68 10    880      jsr CHKSLOT
2758 90 14       881      bcc >1
275A           882      ;
275A AD 35 40    883      lda DECVALS
275D           884      ;
275D A2 28       885      ldx #RANASIG-SIGBYTES
275F           886      ;
275F 20 68 10    887      jsr CHKSLOT
2762 90 0A       888      bcc >1
2764           889      ;
2764 AD 35 40    890      lda DECVALS
2767           891      ;
2767 A2 30       892      ldx #SIDERSIG-SIGBYTES
2769           893      ;
2769 20 68 10    894      jsr CHKSLOT
276C B0 83       895      bcs <0
276E           896      ;
276E AD 35 40    897      ^1    lda DECVALS
2771 8D 1E 40    898      sta DISKSLOT
2774           899      ;
2774 0A          900      asl
2775 0A          901      asl
2776 0A          902      asl
2777 0A          903      asl
2778           904      ;
2778 8D 21 40    905      sta DSKSLT16
277B           906      ;
277B A9 01       907      lda #1
277D 8D 1F 40    908      sta DISKDRV
2780           909      ;
2780 A9 01       910      lda #INVRDISP
2782 8D A4 27    911      sta DRVMOD1+1
2785           912      ;
2785 A9 00       913      lda #NORMDISP
2787 8D AB 27    914      sta DRVMOD2+1
278A           915      ;
278A 20 F2 37    916      ^2    jsr PRINT
278D 04 68       917      hex 0468
278F D3 E5 EC    918      asc "Select disk drive - "
2792 E5 E3 F4
2795 A0 E4 E9
2798 F3 EB A0
279B E4 F2 E9
279E F6 E5 A0
27A1 AD A0
27A3 52 01      919      DRVMOD1  byt DISPCMD,INVRDISP
27A5 B1         920      asc "1"
27A6 52 00      921      byt DISPCMD,NORMDISP
27A8 A0 A0      922      asc " "
27AA 52 00      923      DRVMOD2  byt DISPCMD,NORMDISP
27AC B2         924      asc "2"
27AD 52 00      925      byt DISPCMD,NORMDISP
27AF 50         926      byt RTNCMD
27B0           927      ;
27B0 20 BE 35    928      jsr GETKEY

```

```

27B3 B0 18      929      bcs >4
27B5            930      ;
27B5 F0 15      931      beq >3
27B7            932      ;
27B7 AD 1F 40    933      lda DISKDRV
27BA 49 03      934      eor #1|2
27BC 8D 1F 40    935      sta DISKDRV
27BF            936      ;
27BF AD A4 27    937      lda DRVMOD1+1
27C2 8D AB 27    938      sta DRVMOD2+1
27C5            939      ;
27C5 49 01      940      eor #NORMDISP|INVRDISP
27C7 8D A4 27    941      sta DRVMOD1+1
27CA            942      ;
27CA 10 BE      943      bpl <2                ; always taken
27CC            944      ;
27CC 18          945      ^3      clc
27CD            946      ;
27CD 60          947      ^4      rts
27CE            948      ;
27CE            949      ;
27CE 20 F2 37    950      GETVRSN  jsr PRINT
27D1 00 6A      951      hex 006A
27D3 C5 EE F4    952      asc "Enter filename suffix - "
27D6 E5 F2 A0
27D9 E6 E9 EC
27DC E5 EE E1
27DF ED E5 A0
27E2 F3 F5 E6
27E5 E6 E9 F8
27E8 A0 AD A0
27EB 50          953      byt RTNCMD
27EC            954      ;
27EC A2 0E      955      ldx #VRSNLEN
27EE            956      ;
27EE A0 C1      957      ldy #VERSION
27F0 A9 3E      958      lda /VERSION
27F2            959      ;
27F2            960      ;

```

BSAVE SEG04,A\$0900,B,L\$0652

```

27F2            961      usr SEG04
27F2            962      ;
27F2            963      ;
27F2            964      icl "CODE5.L"

```

LLOAD CODE5.L,A\$4000

```

27F2          1          ttl "Volume Manager Source Code, CODE5.L"
27F2          2          ;
27F2          3          ;
27F2          4          ; CODE5.L
27F2          5          ;
27F2          6          ;
27F2          7          obj PAGE09
27F2          8          usr
27F2          9          ;
27F2         10          ;
27F2 18       11      GETTEXTC clc
27F3         12          ;
27F3 8E 09 40  13      GETTEXT stx TEMP
27F6         14          ;
27F6 84 1E     15          sty TEXTPTR
27F8 85 1F     16          sta TEXTPTR+1
27FA         17          ;
27FA A5 24     18          lda CH
27FC 8D 00 40  19          sta SAVCH
27FF         20          ;
27FF A0 00     21          ldy #ZERO
2801         22          ;
2801 8C 0C 40  23          sty FLAG
2804 8C 0B 40  24          sty PAGE
2807         25          ;
2807 90 06     26          bcc >1
2809         27          ;
2809 CE 0C 40  28          dec FLAG
280C CE 0B 40  29          dec PAGE
280F         30          ;
280F B9 C5 3D  31      ^1      lda MSG2,Y
2812 F0 06     32          beq >2
2814         33          ;
2814 99 D4 07  34          sta LINE23+4,Y
2817         35          ;
2817 C8        36          iny
2818 D0 F5     37          bne <1
281A         38          ;
281A A8        39      ^2      tay
281B         40          ;
281B         41          ;
281B         42          ; GETTEXT main loop.
281B         43          ;
281B A9 00     44      ^1      lda #ZERO
281D 91 1E     45          sta (TEXTPTR),Y
281F         46          ;
281F 20 90 28  47          jsr SHOWYREG
2822         48          ;
2822 20 D2 35  49      ^2      jsr READKEY
2825 B0 5E     50          bcs >9
2827         51          ;
2827 F0 5C     52          beq >9
2829         53          ;
2829 C9 FF     54          cmp #DELETE
282B F0 04     55          beq >3
282D         56          ;
282D C9 88     57          cmp #LARROW
282F D0 26     58          bne >5
2831         59          ;
2831 A6 24     60      ^3      ldx CH

```

```

2833 EC 00 40      61      cpx SAVCH
2836 F0 EA        62      beq <2
2838              63      ;
2838 88            64      dey
2839              65      ;
2839 C0 FF        66      cpy #NEGONE
283B D0 0F        67      bne >4
283D              68      ;
283D 2C 0C 40     69      bit FLAG
2840 10 D9        70      bpl <1
2842              71      ;
2842 2C 0B 40     72      bit PAGE
2845 30 D4        73      bmi <1
2847              74      ;
2847 C6 1F        75      dec TEXTPTR+1
2849              76      ;
2849 CE 0B 40     77      dec PAGE
284C              78      ;
284C C6 24        79      ^4 dec CH
284E              80      ;
284E A9 A0        81      lda #SPACE
2850 20 ED FD     82      jsr COUT
2853              83      ;
2853 C6 24        84      dec CH
2855 10 C4        85      bpl <1          ; always taken
2857              86      ;
2857 C9 A0        87      ^5 cmp #SPACE
2859 90 C7        88      bcc <2
285B              89      ;
285B 91 1E        90      sta (TEXTPTR),Y
285D              91      ;
285D 20 ED FD     92      jsr COUT
2860              93      ;
2860 A6 24        94      ldx CH
2862 E8           95      inx
2863              96      ;
2863 E4 21        97      cpx WNDWDTH
2865 90 03        98      bcc >6
2867              99      ;
2867 20 8E FD    100      jsr CROUT
286A              101     ;
286A C8           102     ^6 iny
286B              103     ;
286B CC 09 40    104      cpy TEMP
286E D0 0A       105      bne >7
2870              106     ;
2870 2C 0C 40    107      bit FLAG
2873 10 0F       108      bpl >8
2875              109     ;
2875 2C 0B 40    110      bit PAGE
2878 10 0A       111      bpl >8
287A              112     ;
287A 98           113     ^7 tya
287B D0 9E       114      bne <1
287D              115     ;
287D EE 0B 40    116      inc PAGE
2880              117     ;
2880 E6 1F       118      inc TEXTPTR+1
2882 D0 97       119      bne <1          ; always taken
2884              120     ;
2884 18           121     ^8 clc

```

```

2885      122 ;
2885 08      123 ^9      php
2886      124 ;
2886 20 F2 37 125      jsr PRINT
2889 00 77    126      hex 0077
288B 54 00    127      byt CLRCMD,EOLCLR
288D 50      128      byt RTNCMD
288E      129 ;
288E 28      130      plp
288F      131 ;
288F 60      132      rts
2890      133 ;
2890      134 ;
2890 8C 04 40 135 SHOWYREG sty SAVY
2893      136 ;
2893 A0 00    137      ld y #ZERO
2895      138 ;
2895 2C 0C 40 139      bit FLAG
2898 10 06    140      bpl >1
289A      141 ;
289A 2C 0B 40 142      bit PAGE
289D 10 01    143      bpl >1
289F      144 ;
289F C8      145      iny
28A0      146 ;
28A0 84 CD    147 ^1      sty VALPTR+1
28A2      148 ;
28A2 38      149      sec
28A3      150 ;
28A3 AD 09 40 151      lda TEMP
28A6 ED 04 40 152      sbc SAVY
28A9 85 CC    153      sta VALPTR
28AB      154 ;
28AB A5 CD    155      lda VALPTR+1
28AD E9 00    156      sbc #ZERO
28AF 85 CD    157      sta VALPTR+1
28B1      158 ;
28B1 20 9C 37 159      jsr HEX2DEC
28B4      160 ;
28B4 AD AB 3E 161      lda VALBUF+2
28B7 8D D0 07 162      sta LINE23
28BA      163 ;
28BA AD AA 3E 164      lda VALBUF+1
28BD 8D D1 07 165      sta LINE23+1
28C0      166 ;
28C0 AD A9 3E 167      lda VALBUF
28C3 8D D2 07 168      sta LINE23+2
28C6      169 ;
28C6 AC 04 40 170      ld y SAVY
28C9      171 ;
28C9 60      172      rts
28CA      173 ;
28CA      174 ;
28CA A0 00    175 PADBUFR ld y #ZERO
28CC      176 ;
28CC B1 1E    177 ^1      lda (TEXTPTR),Y
28CE F0 07    178      beq >2
28D0      179 ;
28D0 C8      180      iny
28D1      181 ;
28D1 CC 09 40 182      cpy TEMP

```

```

28D4 D0 F6      183      bne <1
28D6           184      ;
28D6 60         185      rts
28D7           186      ;
28D7 A9 A0      187      ^2      lda #SPACE
28D9           188      ;
28D9 91 1E      189      ^3      sta (TEXTPTR),Y
28DB           190      ;
28DB C8         191      iny
28DC           192      ;
28DC CC 09 40   193      cpy TEMP
28DF D0 F8      194      bne <3
28E1           195      ;
28E1 60         196      rts
28E2           197      ;
28E2           198      ;
28E2 AD 41 40   199      SHOWLBA  lda LBA
28E5 20 69 36   200      jsr SPLITHEX
28E8           201      ;
28E8 8C DD 07   202      sty LINE23+13
28EB           203      ;
28EB AD 42 40   204      lda LBA+1
28EE 20 69 36   205      jsr SPLITHEX
28F1           206      ;
28F1 8E DE 07   207      stx LINE23+14
28F4 8C DF 07   208      sty LINE23+15
28F7           209      ;
28F7 AD 43 40   210      lda LBA+2
28FA 20 69 36   211      jsr SPLITHEX
28FD           212      ;
28FD 8E E0 07   213      stx LINE23+16
2900 8C E1 07   214      sty LINE23+17
2903           215      ;
2903 AD 44 40   216      lda LBA+3
2906 20 69 36   217      jsr SPLITHEX
2909           218      ;
2909 8E E2 07   219      stx LINE23+18
290C 8C E3 07   220      sty LINE23+19
290F           221      ;
290F 60         222      rts
2910           223      ;
2910           224      ;
2910           225      ; CFFA ROM is disabled by any access to locations 0xCFEF
2910           226      ; and 0xCFFF. Care must be taken to avoid location 0xCFEF.
2910           227      ;
2910 A0 00      228      READCF  ldy #ZERO
2912 84 EC      229      sty SLOTPTR
2914 84 EE      230      sty ROMPTR
2916 84 FA      231      sty DATAPTR
2918           232      ;
2918 AD 22 40   233      lda CFPAGE
291B 85 ED      234      sta SLOTPTR+1
291D           235      ;
291D 2C FF CF   236      bit CLRROM
2920           237      ;
2920 B1 EC      238      lda (SLOTPTR),Y
2922           239      ;
2922 A9 C8      240      lda /PAGEC8
2924 85 EF      241      sta ROMPTR+1
2926           242      ;
2926 A9 45      243      lda /ROMBUFR

```

```

2928 85 FB      244      sta DATAPTR+1
292A          245      ;
292A A2 08      246      ldx #8
292C          247      ;
292C B1 EE      248      ^1    lda (ROMPTR),Y
292E 91 FA      249      sta (DATAPTR),Y
2930          250      ;
2930 C8          251      iny
2931 D0 F9      252      bne <1
2933          253      ;
2933 E6 EF      254      inc ROMPTR+1
2935 E6 FB      255      inc DATAPTR+1
2937          256      ;
2937 CA          257      dex
2938 D0 F2      258      bne <1
293A          259      ;
293A A0 0E      260      ldy #$0E
293C          261      ;
293C B1 EC      262      lda (SLOTPTR),Y
293E          263      ;
293E B9 F0 CF    264      ^2    lda $CFF0,Y
2941 99 F0 4C    265      sta ROMBUFR+$7F0,Y
2944          266      ;
2944 88          267      dey
2945 10 F7      268      bpl <2
2947          269      ;
2947 2C FF CF    270      bit CLRROM
294A          271      ;
294A 60          272      rts
294B          273      ;
294B          274      ;
294B          275      ; Read the configuration data for this CF card.
294B          276      ;
294B A0 00      277      READCFG ldy #ZERO
294D 84 EC      278      sty SLOTPTR
294F          279      ;
294F AD 22 40    280      lda CFPAGE
2952 85 ED      281      sta SLOTPTR+1
2954          282      ;
2954 2C FF CF    283      bit CLRROM
2957          284      ;
2957 B1 EC      285      lda (SLOTPTR),Y
2959          286      ;
2959 B9 00 C8     287      ^1    lda PAGEC8,Y
295C 99 00 45    288      sta ROMBUFR,Y
295F          289      ;
295F C8          290      iny
2960 D0 F7      291      bne <1
2962          292      ;
2962 2C FF CF    293      bit CLRROM
2965          294      ;
2965 60          295      rts
2966          296      ;
2966          297      ;
2966 A0 00      298      WRITCF  ldy #ZERO
2968 84 EC      299      sty SLOTPTR
296A 84 EE      300      sty ROMPTR
296C 84 FA      301      sty DATAPTR
296E          302      ;
296E AD 22 40    303      lda CFPAGE
2971 85 ED      304      sta SLOTPTR+1

```

```

2973          305 ;
2973 2C FF CF 306      bit CLRROM
2976          307 ;
2976 B9 00 43 308 ^1   lda SLOTBUFR,Y
2979 91 EC    309      sta (SLOTPTR),Y
297B          310 ;
297B A9 07    311      lda #WAIT225U
297D 20 E3 2C 312      jsr CFWAIT
2980          313 ;
2980 C8        314      iny
2981 D0 F3     315      bne <1
2983          316 ;
2983 B9 00 43 317 ^2   lda SLOTBUFR,Y
2986 D1 EC     318      cmp (SLOTPTR),Y
2988 D0 6A     319      bne DERROR
298A          320 ;
298A C8        321      iny
298B D0 F6     322      bne <2
298D          323 ;
298D A9 C8     324      lda /PAGEC8
298F 85 EF     325      sta ROMPTR+1
2991          326 ;
2991 A9 45     327      lda /ROMBUFR
2993 85 FB     328      sta DATAPTR+1
2995          329 ;
2995 A2 08     330      ldx #8
2997          331 ;
2997 B1 FA     332 ^3   lda (DATAPTR),Y
2999 91 EE     333      sta (ROMPTR),Y
299B          334 ;
299B A9 07     335      lda #WAIT225U
299D 20 E3 2C 336      jsr CFWAIT
29A0          337 ;
29A0 C8        338      iny
29A1 D0 F4     339      bne <3
29A3          340 ;
29A3 E6 EF     341      inc ROMPTR+1
29A5 E6 FB     342      inc DATAPTR+1
29A7          343 ;
29A7 CA        344      dex
29A8 D0 ED     345      bne <3
29AA          346 ;
29AA A0 0E     347      ldy #$0E
29AC          348 ;
29AC B1 EC     349      lda (SLOTPTR),Y
29AE          350 ;
29AE B9 F0 4C 351 ^4   lda ROMBUFR+$7F0,Y
29B1 99 F0 CF 352      sta $CFF0,Y
29B4          353 ;
29B4 A9 07     354      lda #WAIT225U
29B6 20 E3 2C 355      jsr CFWAIT
29B9          356 ;
29B9 88        357      dey
29BA 10 F2     358      bpl <4
29BC          359 ;
29BC A9 C8     360      lda /PAGEC8
29BE 85 EF     361      sta ROMPTR+1
29C0          362 ;
29C0 A9 45     363      lda /ROMBUFR
29C2 85 FB     364      sta DATAPTR+1
29C4          365 ;

```

```

29C4 A2 07      366      ldx #7
29C6 A0 00      367      ldy #ZERO
29C8           368      ;
29C8 B1 FA      369      ^5      lda (DATAPTR),Y
29CA D1 EE      370      cmp (ROMPTR),Y
29CC D0 26      371      bne DERROR
29CE           372      ;
29CE C8         373      iny
29CF D0 F7      374      bne <5
29D1           375      ;
29D1 E6 EF      376      inc ROMPTR+1
29D3 E6 FB      377      inc DATAPTR+1
29D5           378      ;
29D5 CA         379      dex
29D6 D0 F0      380      bne <5
29D8           381      ;
29D8 B1 FA      382      ^6      lda (DATAPTR),Y
29DA D1 EE      383      cmp (ROMPTR),Y
29DC D0 16      384      bne DERROR
29DE           385      ;
29DE C8         386      iny
29DF           387      ;
29DF C0 EF      388      cpy #$EF
29E1 D0 F5      389      bne <6
29E3           390      ;
29E3 C8         391      iny
29E4           392      ;
29E4 B1 FA      393      ^7      lda (DATAPTR),Y
29E6 D1 EE      394      cmp (ROMPTR),Y
29E8 D0 0A      395      bne DERROR
29EA           396      ;
29EA C8         397      iny
29EB           398      ;
29EB C0 FF      399      cpy #NEGONE
29ED D0 F5      400      bne <7
29EF           401      ;
29EF 2C FF CF   402      bit CLRROM
29F2           403      ;
29F2 18         404      clc
29F3           405      ;
29F3 60         406      rts
29F4           407      ;
29F4           408      ;
29F4 2C FF CF   409      DERROR bit CLRROM
29F7           410      ;
29F7 20 F2 37   411      jsr PRINT
29FA 00 74      412      hex 0074
29FC 54 01      413      byt CLRCMD,EOPCLR
29FE D3 F4 E1   414      asc "Status:  written data does not compare"
2A01 F4 F5 F3
2A04 BA A0 A0
2A07 F7 F2 E9
2A0A F4 F4 E5
2A0D EE A0 E4
2A10 E1 F4 E1
2A13 A0 E4 EF
2A16 E5 F3 A0
2A19 EE EF F4
2A1C A0 E3 EF
2A1F ED F0 E1
2A22 F2 E5

```

```

2A24 50          415          byt RTNCMD
2A25            416          ;
2A25            417          .if DEBUG
2A25            418          jmp PRESKEYC
2A25            419          .el
2A25 4C 9A 35    420          jmp PRESKEYS
2A28            421          .fi
2A28            422          ;
2A28            423          ;
2A28 A0 00       424 WRITCFG  ld  #ZERO
2A2A 84 EC       425          sty SLOTPTR
2A2C            426          ;
2A2C AD 22 40    427          lda CFPAGE
2A2F 85 ED       428          sta SLOTPTR+1
2A31            429          ;
2A31 2C FF CF    430          bit CLRROM
2A34            431          ;
2A34 B1 EC       432          lda (SLOTPTR),Y
2A36            433          ;
2A36 B9 00 45    434 ^1      lda ROMBUFR,Y
2A39 99 00 C8    435          sta PAGEC8,Y
2A3C            436          ;
2A3C A9 07       437          lda #WAIT225U
2A3E 20 E3 2C    438          jsr CFWAIT
2A41            439          ;
2A41 C8          440          iny
2A42 D0 F2       441          bne <1
2A44            442          ;
2A44 B9 00 45    443 ^2      lda ROMBUFR,Y
2A47 D9 00 C8    444          cmp PAGEC8,Y
2A4A D0 A8       445          bne DERROR
2A4C            446          ;
2A4C C8          447          iny
2A4D D0 F5       448          bne <2
2A4F            449          ;
2A4F 2C FF CF    450          bit CLRROM
2A52            451          ;
2A52 18          452          clc
2A53            453          ;
2A53 60          454          rts
2A54            455          ;
2A54            456          ;
2A54 20 EA 03    457 WRITFM  jsr HOOKDOS
2A57            458          ;
2A57 20 DC 03    459          jsr GETFMCB
2A5A            460          ;
2A5A 84 CE       461          sty GENPTR
2A5C 85 CF       462          sta GENPTR+1
2A5E            463          ;
2A5E A0 11       464          ld  #FMPLN-1
2A60            465          ;
2A60 B9 C7 3F    466 ^1      lda FMVALS,Y
2A63 91 CE       467          sta (GENPTR),Y
2A65            468          ;
2A65 88          469          dey
2A66 10 F8       470          bpl <1
2A68            471          ;
2A68 A2 00       472          ldx #ZERO          ; allocate file
2A6A            473          ;
2A6A 20 D6 03    474          jsr CALLFM
2A6D B0 03       475          bcs >2

```

```

2A6F      476 ;
2A6F 4C 74 11 477      jmp STATOKAY
2A72      478 ;
2A72 A0 11    479 ^2      ldy #FMPLen-1
2A74      480 ;
2A74 B1 CE    481 ^3      lda (GENPTR),Y
2A76 99 C7 3F 482      sta FMVALS,Y
2A79      483 ;
2A79 88      484      dey
2A7A 10 F8    485      bpl <3
2A7C      486 ;
2A7C AE D1 3F 487      ldx RTNCODE
2A7F      488 ;
2A7F 4C 9D 11 489      jmp DISKERR
2A82      490 ;
2A82      491 ;
2A82 20 F2 37 492 SHOWCF jsr PRINT
2A85 01 68    493      hex 0168
2A87 CC C2 C1 494      asc "LBA sectors - 0x"
2A8A A0 F3 E5
2A8D E3 F4 EF
2A90 F2 F3 A0
2A93 AD A0 B0
2A96 F8
2A97 57      495      byt NIBLCMD
2A98 3D 40    496      adr IDLBANUM
2A9A 5A 03    497      byt BYTNCMD,3
2A9C 3E 40    498      adr IDLBANUM+1
2A9E A0 A8    499      asc " ("
2AA0 50      500      byt RTNCMD
2AA1      501 ;
2AA1 AD 0E 40 502      lda NSIZE
2AA4 10 1E    503      bpl >2
2AA6      504 ;
2AA6 C9 81    505      cmp #$81
2AA8 D0 0D    506      bne >1
2AAA      507 ;
2AAA 20 F2 37 508      jsr PRINT
2AAD B2 B5 B6 509      asc "256 MB)"
2AB0 A0 CD C2
2AB3 A9
2AB4 50      510      byt RTNCMD
2AB5      511 ;
2AB5 90 18    512      bcc >3 ; always taken
2AB7      513 ;
2AB7 20 F2 37 514 ^1      jsr PRINT
2ABA B5 B1 B2 515      asc "512 MB)"
2ABD A0 CD C2
2AC0 A9
2AC1 50      516      byt RTNCMD
2AC2      517 ;
2AC2 90 0B    518      bcc >3 ; always taken
2AC4      519 ;
2AC4 20 F2 37 520 ^2      jsr PRINT
2AC7 5C      521      byt DEC1CMD
2AC8 0E 40    522      adr NSIZE
2ACA A0 C7 C2 523      asc " GB)"
2ACD A9
2ACE 50      524      byt RTNCMD
2ACF      525 ;
2ACF 20 F2 37 526 ^3      jsr PRINT

```

2AD2	00	6A	527	hex 006A
2AD4	D4	EF F4	528	asc "Total drives - "
2AD7	E1	EC A0		
2ADA	E4	F2 E9		
2ADD	F6	E5 F3		
2AE0	A0	AD A0		
2AE3	5E		529	byt DEC3CMD
2AE4	10	40	530	adr NDRVS
2AE6	A0	AB A0	531	asc " + "
2AE9	5E		532	byt DEC3CMD
2AEA	13	40	533	adr NVOLS
2AEC	A0	E5 F8	534	asc " extra volumes"
2AEF	F4	F2 E1		
2AF2	A0	F6 EF		
2AF5	EC	F5 ED		
2AF8	E5	F3		
2AFA	00	6C	535	hex 006C
2AFC	B0	B0 B0	536	asc "0000000-0000001 = Not used"
2AFF	B0	B0 B0		
2B02	B0	AD B0		
2B05	B0	B0 B0		
2B08	B0	B0 B1		
2B0B	A0	BD A0		
2B0E	CE	EF F4		
2B11	A0	F5 F3		
2B14	E5	E4		
2B16	8D		537	byt RETURN
2B17	B0	B0 B0	538	asc "0000002-0000002 = Saved Slot Firmware"
2B1A	B0	B0 B0		
2B1D	B2	AD B0		
2B20	B0	B0 B0		
2B23	B0	B0 B2		
2B26	A0	BD A0		
2B29	D3	E1 F6		
2B2C	E5	E4 A0		
2B2F	D3	EC EF		
2B32	F4	A0 C6		
2B35	E9	F2 ED		
2B38	F7	E1 F2		
2B3B	E5			
2B3C	8D		539	byt RETURN
2B3D	B0	B0 B0	540	asc "0000003-0000006 = Saved ROM Firmware"
2B40	B0	B0 B0		
2B43	B3	AD B0		
2B46	B0	B0 B0		
2B49	B0	B0 B6		
2B4C	A0	BD A0		
2B4F	D3	E1 F6		
2B52	E5	E4 A0		
2B55	D2	CF CD		
2B58	A0	C6 E9		
2B5B	F2	ED F7		
2B5E	E1	F2 E5		
2B61	8D		541	byt RETURN
2B62	B0	B0 B0	542	asc "0000007-0000007 = Saved Identify Device"
2B65	B0	B0 B0		
2B68	B7	AD B0		
2B6B	B0	B0 B0		
2B6E	B0	B0 B7		
2B71	A0	BD A0		
2B74	D3	E1 F6		

```
2B77 E5 E4 A0
2B7A C9 E4 E5
2B7D EE F4 E9
2B80 E6 F9 A0
2B83 C4 E5 F6
2B86 E9 E3 E5
2B89 8D          543      byt RETURN
2B8A B0 B0 B0    544      asc "0000008-000000F = DOS Descriptions (8)"
2B8D B0 B0 B0
2B90 B8 AD B0
2B93 B0 B0 B0
2B96 B0 B0 C6
2B99 A0 BD A0
2B9C C4 CF D3
2B9F A0 C4 E5
2BA2 F3 E3 F2
2BA5 E9 F0 F4
2BA8 E9 EF EE
2BAB F3 A0 A8
2BAE B8 A9
2BB0 8D          545      byt RETURN
2BB1 B0 B0 B0    546      asc "0000010-00000CF = DOS Images (8)"
2BB4 B0 B0 B1
2BB7 B0 AD B0
2BBA B0 B0 B0
2BBD B0 C3 C6
2BC0 A0 BD A0
2BC3 C4 CF D3
2BC6 A0 C9 ED
2BC9 E1 E7 E5
2BCC F3 A0 A8
2BCF B8 A9
2BD1 8D          547      byt RETURN
2BD2 B0 B0 B0    548      asc "00000D0-00000FF = Drive Descriptions"
2BD5 B0 B0 C4
2BD8 B0 AD B0
2BDB B0 B0 B0
2BDE B0 C6 C6
2BE1 A0 BD A0
2BE4 C4 F2 E9
2BE7 F6 E5 A0
2BEA C4 E5 F3
2BED E3 F2 E9
2BF0 F0 F4 E9
2BF3 EF EE F3
2BF6 8D          549      byt RETURN
2BF7 B0 B0 B0    550      asc "0000100-"
2BFA B0 B1 B0
2BFD B0 AD
2BFF 57          551      byt NIBLCMD
2C00 49 40        552      adr LASTVOL
2C02 5A 03        553      byt BYTNCMD,3
2C04 4A 40        554      adr LASTVOL+1
2C06 A0 BD A0     555      asc " = Drives and Volumes"
2C09 C4 F2 E9
2C0C F6 E5 F3
2C0F A0 E1 EE
2C12 E4 A0 D6
2C15 EF EC F5
2C18 ED E5 F3
2C1B 8D          556      byt RETURN
```

```

2C1C 50          557          byt RTNCMD
2C1D          558      ;
2C1D A2 03      559          ldx #LBALEN-1
2C1F          560      ;
2C1F BD 3D 40   561      ^4      lda IDLBANUM,X
2C22 DD 4D 40   562          cmp FRSTFREE,X
2C25 D0 05      563          bne >5
2C27          564      ;
2C27 CA        565          dex
2C28 10 F5      566          bpl <4
2C2A          567      ;
2C2A 30 1E      568          bmi >6          ; always taken
2C2C          569      ;
2C2C 20 F2 37   570      ^5      jsr PRINT
2C2F 57         571          byt NIBLCMD
2C30 4D 40      572          adr FRSTFREE
2C32 5A 03      573          byt BYTNCMD,3
2C34 4E 40      574          adr FRSTFREE+1
2C36 AD         575          asc "-"
2C37 57         576          byt NIBLCMD
2C38 51 40      577          adr LASTFREE
2C3A 5A 03      578          byt BYTNCMD,3
2C3C 52 40      579          adr LASTFREE+1
2C3E A0 BD A0   580          asc " = Not used"
2C41 CE EF F4
2C44 A0 F5 F3
2C47 E5 E4
2C49 50          581          byt RTNCMD
2C4A          582      ;
2C4A A2 03      583      ^6      ldx #LBALEN-1
2C4C          584      ;
2C4C BD 51 40   585      ^7      lda LASTFREE,X
2C4F 9D 41 40   586          sta LBA,X
2C52          587      ;
2C52 CA        588          dex
2C53 10 F7      589          bpl <7
2C55          590      ;
2C55 20 B7 2D   591          jsr READLBA2
2C58 B0 12      592          bcs >9
2C5A          593      ;
2C5A A2 03      594          ldx #LBALEN-1
2C5C          595      ;
2C5C BD 3D 40   596      ^8      lda IDLBANUM,X
2C5F 9D 41 40   597          sta LBA,X
2C62          598      ;
2C62 CA        599          dex
2C63 10 F7      600          bpl <8
2C65          601      ;
2C65 20 B7 2D   602          jsr READLBA2
2C68 90 02      603          bcc >9
2C6A          604      ;
2C6A 18         605          clc
2C6B          606      ;
2C6B 60         607          rts
2C6C          608      ;
2C6C          609          .if DEBUG
2C6C          610      ^9      jmp PRESKEYC
2C6C          611          .el
2C6C 20 F2 37   612      ^9      jsr PRINT
2C6F 00 74      613          hex 0074
2C71 D3 F4 E1   614          asc "Status:  cannot verify CF memory"

```

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2C74 F4 F5 F3
2C77 BA A0 A0
2C7A E3 E1 EE
2C7D EE EF F4
2C80 A0 F6 E5
2C83 F2 E9 E6
2C86 F9 A0 C3
2C89 C6 A0 ED
2C8C E5 ED EF
2C8F F2 F9
2C91 50          615      byt RTNCMD
2C92          616      ;
2C92 4C 9A 35    617      jmp PRESKEYS
2C95          618      .fi
2C95          619      ;
2C95          620      ;
2C95 A0 C8      621 CFBUSY   ldy #200          ; get loop count
2C97          622      ;
2C97 BD 8F C0    623 ^1     lda ATASTAT,X      ; get CF status
2C9A 10 0D      624      bpl >2          ; status clear if branch
2C9C          625      ;
2C9C A9 11      626      lda #WAIT001M      ; wait 1 msec
2C9E 20 E3 2C    627      jsr CFWAIT
2CA1          628      ;
2CA1 88          629      dey
2CA2 D0 F3      630      bne <1          ; not zero if branch
2CA4          631      ;
2CA4 20 4E 2D    632      jsr DOATARST      ; do software reset
2CA7          633      ;
2CA7 38          634      sec
2CA8          635      ;
2CA8 60          636      rts          ; return with error
2CA9          637      ;
2CA9 18          638 ^2     clc
2CAA          639      ;
2CAA 60          640      rts          ; return with no error
2CAB          641      ;
2CAB          642      ;
2CAB BD 82 C0    643 CFREADY  lda CLRCMSK,X      ; enable 6502 pre-fetch
2CAE          644      ;
2CAE A9 E0      645      lda #%11100000      ; 1,LBA,1,DRV
2CB0 9D 8E C0    646      sta ATAHEAD,X      ; set drive to zero
2CB3          647      ;
2CB3 A0 FA      648      ldy #250          ; get loop count
2CB5          649      ;
2CB5 BD 8F C0    650 ^1     lda ATASTAT,X      ; get CF status
2CB8 29 D0      651      and #%11010000      ; mask BUSY, RDY, DSC
2CBA          652      ;
2CBA C9 50      653      cmp #%01010000      ; RDY, DSC
2CBC F0 0A      654      beq >2          ; BUSY and RDY set if branch
2CBE          655      ;
2CBE A9 7C      656      lda #WAIT040M      ; wait 40 msec
2CC0 20 E3 2C    657      jsr CFWAIT
2CC3          658      ;
2CC3 88          659      dey
2CC4 D0 EF      660      bne <1          ; not zero if branch
2CC6          661      ;
2CC6 38          662      sec
2CC7          663      ;
2CC7 60          664      rts          ; return with error
2CC8          665      ;

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2CC8 18          666 ^2      clc
2CC9            667 ;
2CC9 60          668      rts                ; return with no error
2CCA            669 ;
2CCA            670 ;
2CCA BD 8F C0    671 CFSTATUS lda ATASTAT,X      ; get CF status
2CCD 29 01        672      and #%00000001      ; mask out ERR state
2CCF D0 07        673      bne >1              ; ERR=1 if branch
2CD1            674 ;
2CD1 BD 8F C0    675      lda ATASTAT,X      ; recall CF status
2CD4 29 08        676      and #%00001000      ; mask out DRQ state
2CD6            677 ;
2CD6 18          678      clc
2CD7            679 ;
2CD7 60          680      rts                ; return with no error
2CD8            681 ;
2CD8 38          682 ^1      sec
2CD9            683 ;
2CD9 60          684      rts                ; return with error
2CDA            685 ;
2CDA            686 ;
2CDA A9 00        687 WAIT    lda #ZERO
2CDC            688 ;
2CDC 20 E3 2C     689      jsr CFWAIT
2CDF            690 ;
2CDF CA          691      dex
2CE0 D0 F8        692      bne WAIT
2CE2            693 ;
2CE2 60          694      rts
2CE3            695 ;
2CE3            696 ;
2CE3 38          697 CFWAIT    sec                ; set for subtraction
2CE4            698 ;
2CE4 48          699 ^1      pha                ; save value
2CE5            700 ;
2CE5 E9 01        701 ^2      sbc #1              ; inner loop subtraction
2CE7 D0 FC        702      bne <2              ; not zero if branch
2CE9            703 ;
2CE9 68          704      pla                ; recall value
2CEA            705 ;
2CEA E9 01        706      sbc #1              ; outer loop subtraction
2CEC D0 F6        707      bne <1              ; not zero if branch
2CEE            708 ;
2CEE 60          709      rts                ; return to caller
2CEF            710 ;
2CEF            711 ;
2CEF 20 95 2C     712 CFCHECK jsr CFBUSY      ; wait for BUSY=0
2CF2 B0 03        713      bcs >1              ; error if branch
2CF4            714 ;
2CF4 20 CA 2C     715      jsr CFSTATUS      ; get ERR and DRQ state
2CF7            716 ;
2CF7 60          717 ^1      rts                ; return to caller
2CF8            718 ;
2CF8            719 ;
2CF8 AE 20 40     720 LOADLBA ldx CFSLOT16      ; get CF SLOT*16
2CFB            721 ;
2CFB 20 95 2C     722      jsr CFBUSY      ; BUSY bit must be clear
2CFE B0 21        723      bcs >1              ; error if branch
2D00            724 ;
2D00 A9 01        725      lda #1              ; set for one sector I/O
2D02 9D 8A C0     726      sta ATASECCT,X

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2D05      727 ;
2D05 AD 44 40 728      lda LBA+3          ; load LBA LSB
2D08 9D 8B C0 729      sta ATASECTR,X
2D0B      730 ;
2D0B AD 43 40 731      lda LBA+2          ; load LBA LSB+1
2D0E 9D 8C C0 732      sta ATACYLNL,X
2D11      733 ;
2D11 AD 42 40 734      lda LBA+1          ; load LBA MSB-1
2D14 9D 8D C0 735      sta ATACYLNH,X
2D17      736 ;
2D17 AD 41 40 737      lda LBA          ; load LBA MSB
2D1A 29 0F    738      and #LBAMASK      ; mask bits 27:24
2D1C      739 ;
2D1C 09 E0    740      ora #%11100000    ; LBA=1, DRV=0
2D1E 9D 8E C0 741      sta ATAHEAD,X
2D21      742 ;
2D21 60      743      ^1      rts
2D22      744 ;
2D22      745 ;
2D22 9D 8F C0 746      LOADCMD sta ATACMD,X
2D25      747 ;
2D25 20 95 2C 748      jsr CFBUSY          ; wait for BUSY=0
2D28 B0 11    749      bcs >3          ; error if branch
2D2A      750 ;
2D2A A0 C8    751      ldy #200          ; get loop count
2D2C      752 ;
2D2C A9 04    753      ^1      lda #WAIT100U      ; wait 100 usec
2D2E 20 E3 2C 754      jsr CFWAIT
2D31      755 ;
2D31 20 CA 2C 756      jsr CFSTATUS          ; get ERR and DRQ state
2D34 B0 02    757      bcs >2          ; ERR=1 if branch
2D36      758 ;
2D36 D0 03    759      bne >3          ; DRQ=1 if branch
2D38      760 ;
2D38 88      761      ^2      dey
2D39 D0 F1    762      bne <1          ; not zero if branch
2D3B      763 ;
2D3B 60      764      ^3      rts          ; return to caller
2D3C      765 ;
2D3C      766 ;
2D3C AE 20 40 767      CFRESET ldx CFSLOT16      ; get CF SLOT*16
2D3F      768 ;
2D3F 20 95 2C 769      jsr CFBUSY          ; wait for BUSY=0
2D42      770 ;
2D42 20 AB 2C 771      jsr CFREADY          ; wait for RDY=1
2D45 B0 06    772      bcs >1          ; error if branch
2D47      773 ;
2D47 20 4E 2D 774      jsr DOATARST          ; do reset
2D4A      775 ;
2D4A 20 EF 2C 776      jsr CFCHECK          ; get ERR and DRQ state
2D4D      777 ;
2D4D 60      778      ^1      rts          ; return to caller
2D4E      779 ;
2D4E      780 ;
2D4E A9 0E    781      DOATARST lda #%00001110      ; 1,SRST,nIEN,0
2D50 9D 86 C0 782      sta ATADEVCT,X      ; set device
2D53      783 ;
2D53 A9 04    784      lda #WAIT100U      ; wait for 100 usec
2D55 20 E3 2C 785      jsr CFWAIT
2D58      786 ;
2D58 A9 0A    787      lda #%00001010      ; nIEN=1 to disable intrupts

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2D5A 9D 86 C0      788      sta ATADEVCT,X      ; set device
2D5D              789      ;
2D5D A9 7C        790      lda #WAIT040M      ; wait for 40 msec
2D5F              791      ;
2D5F 4C E3 2C     792      jmp CFWAIT          ; and return to caller
2D62              793      ;
2D62              794      ;
2D62 20 95 21     795  READID  jsr CLEARLBA      ; set LBA=0
2D65              796      ;
2D65 20 F8 2C     797      jsr LOADLBA        ; load LBA
2D68 B0 28        798      bcs >3            ; error if branch
2D6A              799      ;
2D6A A9 EC        800      lda #ATA_ID        ; set CF to read ID
2D6C              801      ;
2D6C 20 22 2D     802      jsr LOADCMD        ; load command
2D6F B0 21        803      bcs >3            ; error if branch
2D71              804      ;
2D71 A0 00        805      ldy #IDBUFR
2D73 A9 43        806      lda /IDBUFR
2D75              807      ;
2D75 84 CE        808      sty GENPTR
2D77 85 CF        809      sta GENPTR+1
2D79              810      ;
2D79 20 CB 2D     811      jsr READBUFR
2D7C B0 14        812      bcs >3
2D7E              813      ;
2D7E A2 05        814      ldx #5
2D80              815      ;
2D80 AD 7A 43     816      lda IDBUFR+IDLBAOFF+2 ; reverse order
2D83              817      ;
2D83 DD 53 3E     818      ^1  cmp TOPMEM,X
2D86 F0 05        819      beq >2
2D88              820      ;
2D88 CA          821      dex
2D89 10 F8        822      bpl <1
2D8B              823      ;
2D8B 30 05        824      bmi >3
2D8D              825      ;
2D8D 8E 24 40     826      ^2  stx CFINDEX
2D90              827      ;
2D90 18          828      clc
2D91              829      ;
2D91 60          830      rts
2D92              831      ;
2D92              832      .if DEBUG
2D92              833      ^3  jmp PRESKEYC
2D92              834      .el
2D92 20 F2 37     835      ^3  jsr PRINT
2D95 00 73        836      hex 0073
2D97 54 01        837      byt CLRCMD,EOPCLR
2D99 8D 8D        838      byt RETURN,RETURN
2D9B 56 00        839      byt BUFRCMD,DIRECT
2D9D DA 3D        840      adr MSG3
2D9F F2 E5 E1     841      asc "read Identify Device"
2DA2 E4 A0 C9
2DA5 E4 E5 EE
2DA8 F4 E9 E6
2DAB F9 A0 C4
2DAE E5 F6 E9
2DB1 E3 E5
2DB3 50          842      byt RTNCMD

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2DB4      843 ;
2DB4 4C 9A 35 844      jmp PRESKEYS
2DB7      845      .fi
2DB7      846 ;
2DB7      847 ;
2DB7 A0 00 848 READLBA2 ldy #LBABUFR
2DB9 A9 43 849      lda /LBABUFR
2DBB      850 ;
2DBB 84 CE 851 READLBA  sty GENPTR
2DBD 85 CF 852      sta GENPTR+1
2DBF      853 ;
2DBF 20 F8 2C 854      jsr LOADLBA
2DC2 B0 2F 855      bcs >3
2DC4      856 ;
2DC4 A9 20 857      lda #ATA_READ
2DC6      858 ;
2DC6 20 22 2D 859      jsr LOADCMD
2DC9 B0 28 860      bcs >3
2DCB      861 ;
2DCB      862 ;
2DCB BD 82 C0 863 READBUFR lda CLRCMSK,X
2DCE      864 ;
2DCE A0 00 865      ldy #ZERO
2DD0      866 ;
2DD0 BD 88 C0 867 ^1      lda ATADATAL,X
2DD3 91 CE 868      sta (GENPTR),Y
2DD5      869 ;
2DD5 C8 870      iny
2DD6      871 ;
2DD6 BD 80 C0 872      lda ATADATAH,X
2DD9 91 CE 873      sta (GENPTR),Y
2DDB      874 ;
2DDB C8 875      iny
2DDC D0 F2 876      bne <1
2DDE      877 ;
2DDE E6 CF 878      inc GENPTR+1
2DE0      879 ;
2DE0 BD 88 C0 880 ^2      lda ATADATAL,X
2DE3 91 CE 881      sta (GENPTR),Y
2DE5      882 ;
2DE5 C8 883      iny
2DE6      884 ;
2DE6 BD 80 C0 885      lda ATADATAH,X
2DE9 91 CE 886      sta (GENPTR),Y
2DEB      887 ;
2DEB C8 888      iny
2DEC D0 F2 889      bne <2
2DEE      890 ;
2DEE E6 CF 891      inc GENPTR+1
2DF0      892 ;
2DF0 20 EF 2C 893      jsr CFCHECK      ; get ERR and DRQ state
2DF3      894 ;
2DF3 60 895 ^3      rts      ; return to caller
2DF4      896 ;
2DF4      897 ;
2DF4 A0 00 898 WRITLBA2 ldy #LBABUFR
2DF6 A9 43 899      lda /LBABUFR
2DF8      900 ;
2DF8 84 CE 901 WRITLBA1 sty GENPTR
2DFA 85 CF 902      sta GENPTR+1
2DFC      903 ;

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2DFC 20 F8 2C    904 WRITLBA    jsr LOADLBA
2DFF B0 36      905          bcs >3
2E01          906 ;
2E01 A9 30      907          lda #ATA_WRIT
2E03          908 ;
2E03 20 22 2D   909          jsr LOADCMD
2E06 B0 2F      910          bcs >3
2E08          911 ;
2E08          912 ;
2E08 BD 81 C0   913 WRITBUFR lda SETCSMSK,X
2E0B          914 ;
2E0B A0 00      915          ldy #ZERO
2E0D          916 ;
2E0D B1 CE      917 ^1      lda (GENPTR),Y
2E0F 48         918          pha
2E10          919 ;
2E10 C8         920          iny
2E11          921 ;
2E11 B1 CE      922          lda (GENPTR),Y
2E13 9D 80 C0   923          sta ATADATAH,X
2E16          924 ;
2E16 68         925          pla
2E17 9D 88 C0   926          sta ATADATAL,X
2E1A          927 ;
2E1A C8         928          iny
2E1B D0 F0      929          bne <1
2E1D          930 ;
2E1D E6 CF      931          inc GENPTR+1
2E1F          932 ;
2E1F B1 CE      933 ^2      lda (GENPTR),Y
2E21 48         934          pha
2E22          935 ;
2E22 C8         936          iny
2E23          937 ;
2E23 B1 CE      938          lda (GENPTR),Y
2E25 9D 80 C0   939          sta ATADATAH,X
2E28          940 ;
2E28 68         941          pla
2E29 9D 88 C0   942          sta ATADATAL,X
2E2C          943 ;
2E2C C8         944          iny
2E2D D0 F0      945          bne <2
2E2F          946 ;
2E2F E6 CF      947          inc GENPTR+1
2E31          948 ;
2E31 BD 82 C0   949          lda CLRCMSK,X
2E34          950 ;
2E34 20 EF 2C   951          jsr CFCHECK          ; get ERR and DRQ state
2E37          952 ;
2E37 60         953 ^3      rts          ; return to caller
2E38          954 ;
2E38          955 ;

BSAVE SEG05,A$0900,B,L$0646

2E38          956          usr SEG05
2E38          957 ;
2E38          958 ;
2E38          959          icl "CODE6.L"

LLOAD CODE6.L,A$4000

```

```

2E38          1          ttl "Volume Manager Source Code, CODE6.L"
2E38          2          ;
2E38          3          ;
2E38          4          ; CODE6.L
2E38          5          ;
2E38          6          ;
2E38          7          obj PAGE09
2E38          8          usr
2E38          9          ;
2E38         10          ;
2E38 A2 01     11 LISTIMGS ldx #1
2E3A         12          ;
2E3A 8E 7A 3F  13 ^1      stx DOSIMAGE
2E3D         14          ;
2E3D 8A        15          txa
2E3E 09 B0     16          ora #"0"
2E40 8D 43 3D  17          sta MOD6.03
2E43         18          ;
2E43 20 F2 37  19          jsr PRINT
2E46 56 00     20          byt BUFRCMD,DIRECT
2E48 39 3D     21          adr STR6.03          ; "DOS Image n"
2E4A A0 AD A0  22          asc " - "
2E4D 50        23          byt RTNCMD
2E4E         24          ;
2E4E 38        25          sec
2E4F         26          ;
2E4F 20 9C 2E  27          jsr PUTINAME
2E52         28          ;
2E52 AE 7A 3F  29          ldx DOSIMAGE
2E55 E8        30          inx
2E56         31          ;
2E56 E0 09     32          cpx #9
2E58 D0 E0     33          bne <1
2E5A         34          ;
2E5A 60        35          rts
2E5B         36          ;
2E5B         37          ;
2E5B A2 C2     38 DOLDDOS ldx #PUTIERR
2E5D A9 2F     39          lda /PUTIERR
2E5F         40          ;
2E5F 20 92 19  41          jsr SETERROR
2E62         42          ;
2E62 20 F2 37  43          jsr PRINT
2E65 00 6B     44          hex 006B
2E67 C4 CF D3  45          asc "DOS Images -"
2E6A A0 C9 ED
2E6D E1 E7 E5
2E70 F3 A0 AD
2E73 50        46          byt RTNCMD
2E74         47          ;
2E74 A2 01     48          ldx #1
2E76         49          ;
2E76 8E 7A 3F  50 ^1      stx DOSIMAGE
2E79         51          ;
2E79 A9 0D     52          lda #13
2E7B 85 24     53          sta CH
2E7D         54          ;
2E7D 18        55          clc
2E7E         56          ;
2E7E 20 9C 2E  57          jsr PUTINAME

```

```

2E81      58 ;
2E81 AE 7A 3F 59      ldx DOSIMAGE
2E84 E8      60      inx
2E85      61 ;
2E85 E0 07   62      cpx #7
2E87 D0 ED   63      bne <1
2E89      64 ;
2E89 A2 01   65      ldx #1
2E8B      66 ;
2E8B 8E 7A 3F 67 ^2   stx DOSIMAGE
2E8E      68 ;
2E8E 20 11 2F 69      jsr SELCIMAG
2E91 B0 08   70      bcs >3
2E93      71 ;
2E93 AE 7A 3F 72      ldx DOSIMAGE
2E96 E8      73      inx
2E97      74 ;
2E97 E0 07   75      cpx #7
2E99 D0 F0   76      bne <2
2E9B      77 ;
2E9B 60      78 ^3   rts
2E9C      79 ;
2E9C      80 ;
2E9C 08      81 PUTINAME php
2E9D      82 ;
2E9D AD 7A 3F 83      lda DOSIMAGE
2EA0 0A      84      asl
2EA1 AA      85      tax
2EA2      86 ;
2EA2 BC 7B 3F 87      ldy DOSIMTBL-2,X
2EA5 BD 7C 3F 88      lda DOSIMTBL-1,X
2EA8      89 ;
2EA8 8C 7B 3F 90      sty DOSINAME
2EAB 8D 7C 3F 91      sta DOSINAME+1
2EAE      92 ;
2EAE 20 F2 37 93      jsr PRINT
2EB1 C4 CF D3 94      asc "DOS"
2EB4 56 01   95      byt BUFRCMD,INDIRECT
2EB6 7B 3F   96      adr DOSINAME
2EB8 50      97      byt RTNCMD
2EB9      98 ;
2EB9 28      99      plp
2EBA 90 18   100     bcc >2
2EBC      101 ;
2EBC 20 E0 2E 102     jsr GETIMAGE
2EBF B0 05   103     bcs >1
2EC1      104 ;
2EC1 AD 00 41 105     lda DESCBUFR
2EC4 D0 0E   106     bne >2
2EC6      107 ;
2EC6 20 F2 37 108 ^1   jsr PRINT
2EC9 A0 A8 C2 109     asc " (Blank)"
2ECC EC E1 EE
2ECF EB A9
2ED1 8D      110     byt RETURN
2ED2 50      111     byt RTNCMD
2ED3      112 ;
2ED3 60      113     rts
2ED4      114 ;
2ED4 20 F2 37 115 ^2   jsr PRINT
2ED7 A0 C9 CD 116     asc " IMAGE"

```

```

2EDA C1 C7 C5
2EDD 8D          117          byt RETURN
2EDE 50          118          byt RTNCMD
2EDF          119          ;
2EDF 60          120          rts
2EE0          121          ;
2EE0          122          ;
2EE0 20 95 21    123  GETIMAGE jsr CLEARLBA          ; LBA=0
2EE3          124          ;
2EE3 AE 7A 3F    125          ldx DOSIMAGE
2EE6          126          ;
2EE6 BD 6E 3E    127          lda IMAGLBA-1,X
2EE9 8D 44 40    128          sta LBA+3
2EEC          129          ;
2EEC A0 00       130          ldz #DESCBUFR
2EEE A9 41       131          lda /DESCBUFR
2EF0          132          ;
2EF0 20 BB 2D    133          jsr READLBA
2EF3 B0 01       134          bcs >1
2EF5          135          ;
2EF5 60          136          rts
2EF6          137          ;
2EF6 20 F2 37    138  ^1      jsr PRINT
2EF9 00 74       139          hex 0074
2EFB 56 00       140          byt BUFRCMD,DIRECT
2EFD DA 3D       141          adr MSG3
2EFF F2 E5 E1    142          asc "read DOS image"
2F02 E4 A0 C4
2F05 CF D3 A0
2F08 E9 ED E1
2F0B E7 E5
2F0D 50          143          byt RTNCMD
2F0E          144          ;
2F0E 4C 9A 35    145          jmp PRESKEYS
2F11          146          ;
2F11          147          ;
2F11 AD 7A 3F    148  SELCIMAG lda DOSIMAGE
2F14 0A          149          asl
2F15 AA          150          tax
2F16          151          ;
2F16 BC 7B 3F    152          ldz DOSIMTBL-2,X
2F19 BD 7C 3F    153          lda DOSIMTBL-1,X
2F1C          154          ;
2F1C 8C 7B 3F    155          sty DOSINAME
2F1F 8D 7C 3F    156          sta DOSINAME+1
2F22          157          ;
2F22 20 F2 37    158          jsr PRINT
2F25 00 73       159          hex 0073
2F27 54 01       160          byt CLRCMD,EOPCLR
2F29 C9 EE F3    161          asc "Install DOS "
2F2C F4 E1 EC
2F2F EC A0 C4
2F32 CF D3 A0
2F35 56 01       162          byt BUFRCMD,INDIRECT
2F37 7B 3F       163          adr DOSINAME
2F39 A0 C9 CD    164          asc " IMAGE - "
2F3C C1 C7 C5
2F3F A0 AD A0
2F42 50          165          byt RTNCMD
2F43          166          ;
2F43 20 F8 10    167          jsr GETYORN

```

```

2F46 B0 02      168      bcs >1
2F48           169      ;
2F48 D0 01      170      bne >2
2F4A           171      ;
2F4A 60         172      ^1      rts
2F4B           173      ;
2F4B 20 32 12   174      ^2      jsr CLRIMBUF
2F4E           175      ;
2F4E 20 F2 37   176      jsr PRINT
2F51 8D 84      177      byt RETURN,CTRLD
2F53 C2 CC CF   178      asc "BLOAD DOS"
2F56 C1 C4 A0
2F59 C4 CF D3
2F5C 56 01      179      byt BUFRCMD,INDIRECT
2F5E 7B 3F      180      adr DOSINAME
2F60 A0 C9 CD   181      asc " IMAGE,S"
2F63 C1 C7 C5
2F66 AC D3
2F68 5C         182      byt DEC1CMD
2F69 1E 40      183      adr DISKSLOT
2F6B AC C4      184      asc ",D"
2F6D 5C         185      byt DEC1CMD
2F6E 1F 40      186      adr DISKDRV
2F70 AC C1 A4   187      asc ",A$"
2F73 5B 00      188      byt ADRCMD,DIRECT
2F75 00 43      189      adr DOSBUFR
2F77 8D         190      byt RETURN
2F78 50         191      byt RTNCMD
2F79           192      ;
2F79 20 95 21   193      jsr CLEARLBA          ; LBA=0
2F7C           194      ;
2F7C AE 7A 3F   195      ldx DOSIMAGE
2F7F           196      ;
2F7F BD 6E 3E   197      lda IMAGLBA-1,X
2F82 8D 44 40   198      sta LBA+3
2F85           199      ;
2F85 A9 18      200      lda #IMAGSIZE
2F87 8D 16 40   201      sta PAGECNT
2F8A           202      ;
2F8A A0 00      203      ldy #DOSBUFR
2F8C A9 43      204      lda /DOSBUFR
2F8E           205      ;
2F8E 84 CE      206      sty GENPTR
2F90 85 CF      207      sta GENPTR+1
2F92           208      ;
2F92 20 FC 2D   209      ^3      jsr WRITLBA
2F95 B0 0B      210      bcs >4
2F97           211      ;
2F97 EE 44 40   212      inc LBA+3
2F9A           213      ;
2F9A CE 16 40   214      dec PAGECNT
2F9D D0 F3      215      bne <3
2F9F           216      ;
2F9F 4C 74 11   217      jmp STATOKAY
2FA2           218      ;
2FA2 20 F2 37   219      ^4      jsr PRINT
2FA5 00 75      220      hex 0075
2FA7 56 00      221      byt BUFRCMD,DIRECT
2FA9 DA 3D      222      adr MSG3
2FAB F7 F2 E9   223      asc "write DOS partition"
2FAE F4 E5 A0

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```

2FB1 C4 CF D3
2FB4 A0 F0 E1
2FB7 F2 F4 E9
2FBA F4 E9 EF
2FBD EE
2FBE 50          224          byt RTNCMD
2FBF          225          ;
2FBF 4C 9A 35    226          jmp PRESKEYS
2FC2          227          ;
2FC2          228          ;
2FC2 20 9D 11    229 PUTIERR jsr DISKERR
2FC5          230          ;
2FC5 4C 5B 2E    231          jmp DOLDDOS
2FC8          232          ;
2FC8          233          ;
2FC8 20 F2 37    234 SHOWDOSI jsr PRINT
2FCB 53 01        235          byt SCRNCMD,HOMESCRN
2FCD 8D 55 01     236          byt RETURN,CNTRCMD,INDIRECT
2FD0 01 3D        237          adr STR6.01          ; "Show DOS Image Description"
2FD2 00 66        238          hex 0066
2FD4 50          239          byt RTNCMD
2FD5          240          ;
2FD5 20 38 2E    241          jsr LISTIMGS
2FD8          242          ;
2FD8 20 F2 37    243 ^1      jsr PRINT
2FDB 00 71        244          hex 0071
2FDD 54 01        245          byt CLRCMD,EOPCLR
2FDF D3 E5 EC     246          asc "Select DOS Image to Display - "
2FE2 E5 E3 F4
2FE5 A0 C4 CF
2FE8 D3 A0 C9
2FEB ED E1 E7
2FEE E5 A0 F4
2FF1 EF A0 C4
2FF4 E9 F3 F0
2FF7 EC E1 F9
2FFA A0 AD A0
2FFD 50          247          byt RTNCMD
2FFE          248          ;
2FFE 20 9C 34    249          jsr GETDEC1
3001 B0 27        250          bcs >2
3003          251          ;
3003 AD 35 40    252          lda DECVALS
3006 C9 01        253          cmp #1
3008 90 CE        254          bcc <1
300A          255          ;
300A C9 09        256          cmp #9
300C B0 CA        257          bcs <1
300E          258          ;
300E 20 96 0F    259          jsr CHKIMAGE
3011 B0 C5        260          bcs <1
3013          261          ;
3013 20 42 31    262          jsr READDESC
3016 B0 12        263          bcs >2
3018          264          ;
3018 20 F2 37    265          jsr PRINT
301B 00 64        266          hex 0064
301D 54 01        267          byt CLRCMD,EOPCLR
301F 50          268          byt RTNCMD
3020          269          ;
3020 A0 00        270          ldy #DOSBUFR

```

```

3022 A9 43      271      lda /DOSBUFR
3024           272      ;
3024 20 28 31   273      jsr SHOWIMAG
3027 20 74 11   274      jsr STATOKAY
302A           275      ;
302A 60         276      ^2      rts
302B           277      ;
302B           278      ;
302B 20 F2 37   279      GETDOSI  jsr PRINT
302E 53 01      280      byt SCRNCMD,HOMESCRN
3030 8D 55 01   281      byt RETURN,CNTRCMD,INDIRECT
3033 1C 3D      282      adr STR6.02      ; "Modify DOS ... Description"
3035 00 66      283      hex 0066
3037 50         284      byt RTNCMD
3038           285      ;
3038 20 38 2E   286      jsr LISTIMGS
303B           287      ;
303B 20 F2 37   288      ^1      jsr PRINT
303E 00 71      289      hex 0071
3040 54 01      290      byt CLRCMD,EOPCLR
3042 D3 E5 EC   291      asc "Select DOS Image to Modify - "
3045 E5 E3 F4
3048 A0 C4 CF
304B D3 A0 C9
304E ED E1 E7
3051 E5 A0 F4
3054 EF A0 CD
3057 EF E4 E9
305A E6 F9 A0
305D AD A0
305F 50         292      byt RTNCMD
3060           293      ;
3060 20 9C 34   294      jsr GETDEC1
3063 B0 15      295      bcs >2
3065           296      ;
3065 AD 35 40   297      lda DECVALS
3068 C9 01      298      cmp #1
306A 90 CF      299      bcc <1
306C           300      ;
306C C9 09      301      cmp #9
306E B0 CB      302      bcs <1
3070           303      ;
3070 20 96 0F   304      jsr CHKIMAGE
3073 B0 C6      305      bcs <1
3075           306      ;
3075 20 42 31   307      jsr READDESC
3078 90 01      308      bcc >3
307A           309      ;
307A 60         310      ^2      rts
307B           311      ;
307B 20 58 FC   312      ^3      jsr HOME
307E 20 79 31   313      jsr CLRDESC
3081           314      ;
3081 A0 00      315      ldy #DOSBUFR
3083 A9 43      316      lda /DOSBUFR
3085           317      ;
3085 20 28 31   318      jsr SHOWIMAG
3088           319      ;
3088 A6 22      320      ldx WNDTOP
308A A4 23      321      ldy WNDBTM
308C           322      ;

```

```

308C 8E 07 40    323      stx SAVTOP
308F 8C 08 40    324      sty SAVBTM
3092            325      ;
3092 20 F2 37    326      jsr PRINT
3095 00 72       327      hex 0072
3097 55 01       328      byt CNTRCMD,INDIRECT
3099 F1 3C       329      adr STR3.01      ; "New Description"
309B 8D          330      byt RETURN
309C 50          331      byt RTNCMD
309D            332      ;
309D A2 13       333      ldx #19
309F A0 16       334      ldy #22
30A1            335      ;
30A1 86 22       336      stx WNDTOP
30A3 84 23       337      sty WNDBTM
30A5            338      ;
30A5 20 58 FC    339      jsr HOME
30A8            340      ;
30A8 38          341      sec
30A9            342      ;
30A9 A2 FF       343      ldx #NEGONE
30AB            344      ;
30AB A0 00       345      ldy #DESCBUFR
30AD A9 41       346      lda /DESCBUFR
30AF            347      ;
30AF 20 F3 27    348      jsr GETTEXT
30B2            349      ;
30B2 AE 07 40    350      ldx SAVTOP
30B5 AC 08 40    351      ldy SAVBTM
30B8            352      ;
30B8 86 22       353      stx WNDTOP
30BA 84 23       354      sty WNDBTM
30BC            355      ;
30BC B0 45       356      bcs >4
30BE            357      ;
30BE 20 F2 37    358      jsr PRINT
30C1 53 01       359      byt SCRNCMD,HOMESCRN
30C3 8D 55 01    360      byt RETURN,CNTRCMD,INDIRECT
30C6 1C 3D       361      adr STR6.02      ; "Modify DOS ... Description"
30C8 00 64       362      hex 0064
30CA 50          363      byt RTNCMD
30CB            364      ;
30CB A0 00       365      ldy #DESCBUFR
30CD A9 41       366      lda /DESCBUFR
30CF            367      ;
30CF 20 28 31    368      jsr SHOWIMAG
30D2            369      ;
30D2 20 F2 37    370      jsr PRINT
30D5 00 74       371      hex 0074
30D7 D3 E1 F6    372      asc "Save this DOS description -"
30DA E5 A0 F4
30DD E8 E9 F3
30E0 A0 C4 CF
30E3 D3 A0 E4
30E6 E5 F3 E3
30E9 F2 E9 F0
30EC F4 E9 EF
30EF EE A0 AD
30F2 50          373      byt RTNCMD
30F3            374      ;
30F3 20 F8 10    375      jsr GETYORN

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```

30F6 B0 0B      376      bcs >4
30F8           377      ;
30F8 F0 09      378      beq >4
30FA           379      ;
30FA A0 00      380      ldy #DESCBUFR
30FC A9 41      381      lda /DESCBUFR
30FE           382      ;
30FE 20 F8 2D   383      jsr WRITLBA1
3101 B0 03      384      bcs >5
3103           385      ;
3103 4C 74 11   386      ^4      jmp STATOKAY
3106           387      ;
3106 20 F2 37   388      ^5      jsr PRINT
3109 00 74      389      hex 0074
310B 56 00      390      byt BUFRCMD,DIRECT
310D DA 3D      391      adr MSG3
310F F7 F2 E9   392      asc "write DOS description"
3112 F4 E5 A0
3115 C4 CF D3
3118 A0 E4 E5
311B F3 E3 F2
311E E9 F0 F4
3121 E9 EF EE
3124 50         393      byt RTNCMD
3125           394      ;
3125 4C 9A 35   395      jmp PRESKEYS
3128           396      ;
3128           397      ;
3128 84 CE      398      SHOWIMAG sty GENPTR
312A 85 CF      399      sta GENPTR+1
312C           400      ;
312C AD 7A 3F   401      lda DOSIMAGE
312F 09 B0      402      ora #"0"
3131 8D 43 3D   403      sta MOD6.03
3134           404      ;
3134 20 F2 37   405      jsr PRINT
3137 55 01      406      byt CNTRCMD,INDIRECT
3139 39 3D      407      adr STR6.03      ; "DOS Image n"
313B 8D         408      byt RETURN
313C 50         409      byt RTNCMD
313D           410      ;
313D A0 00      411      ldy #ZERO
313F           412      ;
313F 4C 20 20   413      jmp SHOWDESC
3142           414      ;
3142           415      ;
3142 20 95 21   416      READDESC jsr CLEARLBA      ; LBA=0
3145           417      ;
3145 18         418      clc
3146           419      ;
3146 AD 7A 3F   420      lda DOSIMAGE
3149 69 07      421      adc #7
314B 8D 44 40   422      sta LBA+3
314E           423      ;
314E A0 00      424      ldy #DOSBUFR
3150 A9 43      425      lda /DOSBUFR
3152           426      ;
3152 20 BB 2D   427      jsr READLBA
3155 B0 01      428      bcs >1
3157           429      ;
3157 60         430      rts

```

```

3158      431 ;
3158 20 F2 37 432 ^1      jsr PRINT
315B 00 74    433      hex 0074
315D 56 00    434      byt BUFRCMD,DIRECT
315F DA 3D    435      adr MSG3
3161 F2 E5 E1 436      asc "read DOS description"
3164 E4 A0 C4
3167 CF D3 A0
316A E4 E5 F3
316D E3 F2 E9
3170 F0 F4 E9
3173 EF EE
3175 50      437      byt RTNCMD
3176      438 ;
3176 4C 9A 35 439      jmp PRESKEYS
3179      440 ;
3179      441 ;
3179 A0 00    442 CLRDESC ldy #ZERO
317B 98      443      tya
317C      444 ;
317C 99 00 41 445 ^1      sta DESCBUFR,Y
317F 99 00 42 446      sta DESCBUFR+PAGE SIZE,Y
3182      447 ;
3182 C8      448      iny
3183 D0 F7    449      bne <1
3185      450 ;
3185 60      451      rts
3186      452 ;
3186      453 ;
3186 20 F2 37 454 DISPVLBA jsr PRINT
3189 53 01    455      byt SCRNCMD,HOMESCRN
318B 8D 55 01 456      byt RETURN,CNTRCMD,INDIRECT
318E 45 3D    457      adr STR6.04      ; "Display Volume LBA Range"
3190 50      458      byt RTNCMD
3191      459 ;
3191 20 8A 10 460      jsr GETDRIVE
3194 B0 08    461      bcs RTN1
3196      462 ;
3196 20 C5 10 463      jsr GETVOLUM
3199 B0 03    464      bcs RTN1
319B      465 ;
319B 20 9F 31 466      jsr SHOWVLBA
319E      467 ;
319E 60      468 RTN1      rts
319F      469 ;
319F      470 ;
319F 20 FD 22 471 SHOWVLBA jsr SHOWDVOL
31A2      472 ;
31A2 A9 00    473      lda #ZERO
31A4 8D 17 40 474      sta SECTOR
31A7 8D 19 40 475      sta TRACK
31AA 8D 1A 40 476      sta VOLUME
31AD      477 ;
31AD AD 0F 40 478      lda NDRV
31B0 8D 1B 40 479      sta DRIVE
31B3      480 ;
31B3 20 7F 36 481      jsr DVTS2LBA
31B6      482 ;      bcs RTN1      ; NDRV already verified
31B6      483 ;
31B6 AD 41 40 484      lda LBA
31B9 8D 45 40 485      sta LASTLBA

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```

31BC          486 ;
31BC AD 42 40 487      lda LBA+1
31BF 69 03    488      adc /DRVSIZE          ; size of DRIVE/0x10000
31C1 8D 46 40 489      sta LASTLBA+1
31C4          490 ;
31C4 AD 44 40 491      lda LBA+3
31C7 E9 00    492      sbc #ZERO
31C9 8D 48 40 493      sta LASTLBA+3
31CC          494 ;
31CC AD 43 40 495      lda LBA+2
31CF E9 00    496      sbc #ZERO
31D1 8D 47 40 497      sta LASTLBA+2
31D4          498 ;
31D4 AD 46 40 499      lda LASTLBA+1
31D7 E9 00    500      sbc #ZERO
31D9 8D 46 40 501      sta LASTLBA+1
31DC          502 ;
31DC AD 45 40 503      lda LASTLBA
31DF E9 00    504      sbc #ZERO
31E1 8D 45 40 505      sta LASTLBA
31E4          506 ;
31E4 A2 00    507      ldx #ZERO
31E6          508 ;
31E6 BD 45 40 509      ^1      lda LASTLBA,X
31E9 DD 49 40 510      cmp LASTVOL,X
31EC 90 12    511      bcc >4
31EE          512 ;
31EE D0 05    513      bne >2
31F0          514 ;
31F0 E8       515      inx
31F1          516 ;
31F1 E0 04    517      cpx #LBALEN
31F3 D0 F1    518      bne <1
31F5          519 ;
31F5 A2 03    520      ^2      ldx #LBALEN-1
31F7          521 ;
31F7 BD 49 40 522      ^3      lda LASTVOL,X
31FA 9D 45 40 523      sta LASTLBA,X
31FD          524 ;
31FD CA       525      dex
31FE 10 F7    526      bpl <3
3200          527 ;
3200 20 F2 37 528      ^4      jsr PRINT
3203 02 6A    529      hex 026A
3205 C4 F2 E9 530      asc "Drive "
3208 F6 E5 A0
320B 5D       531      byt DEC2CMD
320C 0F 40    532      adr NDRV
320E 8D       533      byt RETURN
320F 02       534      hex 02
3210 CC C2 C1 535      asc "LBA range: 0x"
3213 A0 F2 E1
3216 EE E7 E5
3219 BA A0 A0
321C B0 F8
321E 57       536      byt NIBLCMD
321F 41 40    537      adr LBA
3221 5A 03    538      byt BYTNCMD,3
3223 42 40    539      adr LBA+1
3225 AD B0 F8 540      asc "-0x"
3228 57       541      byt NIBLCMD

```

```

3229 45 40      542      adr LASTLBA
322B 5A 03      543      byt BYTNCMD,3
322D 46 40      544      adr LASTLBA+1
322F 50          545      byt RTNCMD
3230            546      ;
3230 AD 12 40    547      lda NVOL
3233 8D 1A 40    548      sta VOLUME
3236            549      ;
3236 20 7F 36    550      jsr DVTS2LBA
3239            551      ;          ; NVOL already verified
3239            552      ;
3239 AD 44 40    553      lda LBA+3
323C 69 FF      554      adc #VOLSIZE-1
323E 8D 48 40    555      sta LASTLBA+3
3241            556      ;
3241 AD 43 40    557      lda LBA+2
3244 69 02      558      adc /VOLSIZE-1
3246 8D 47 40    559      sta LASTLBA+2
3249            560      ;
3249 AD 42 40    561      lda LBA+1
324C 69 00      562      adc #ZERO
324E 8D 46 40    563      sta LASTLBA+1
3251            564      ;
3251 AD 41 40    565      lda LBA
3254 69 00      566      adc #ZERO
3256 8D 45 40    567      sta LASTLBA
3259            568      ;
3259 20 F2 37    569      jsr PRINT
325C 02 6E      570      hex 026E
325E D6 EF EC    571      asc "Volume "
3261 F5 ED E5
3264 A0
3265 5E          572      byt DEC3CMD
3266 12 40      573      adr NVOL
3268 8D          574      byt RETURN
3269 02          575      hex 02
326A CC C2 C1    576      asc "LBA range: 0x"
326D A0 F2 E1
3270 EE E7 E5
3273 BA A0 A0
3276 B0 F8
3278 57          577      byt NIBLCMD
3279 41 40      578      adr LBA
327B 5A 03      579      byt BYTNCMD,3
327D 42 40      580      adr LBA+1
327F AD B0 F8    581      asc "-0x"
3282 57          582      byt NIBLCMD
3283 45 40      583      adr LASTLBA
3285 5A 03      584      byt BYTNCMD,3
3287 46 40      585      adr LASTLBA+1
3289 50          586      byt RTNCMD
328A            587      ;
328A 4C A9 35    588      jmp PRESKEY
328D            589      ;
328D            590      ;^5      rts
328D            591      ;
328D            592      ;
328D 20 F2 37    593      SHOWIDOS jsr PRINT
3290 00 63      594      hex 0063
3292 54 01      595      byt CLRCMD,EOPCLR
3294 D3 E5 EC    596      asc "Selected Drive - "

```

```
3297 E5 E3 F4
329A E5 E4 A0
329D C4 F2 E9
32A0 F6 E5 A0
32A3 AD A0
32A5 5D          597      byt DEC2CMD
32A6 0F 40       598      adr NDRV
32A8 00 67       599      hex 0067
32AA 55 00       600      byt CNTRCMD,DIRECT
32AC C4 CF D3    601      asc "DOS Found Table"
32AF A0 C6 EF
32B2 F5 EE E4
32B5 A0 D4 E1
32B8 E2 EC E5
32BB 8D          602      byt RETURN
32BC 55 00       603      byt CNTRCMD,DIRECT
32BE AD AD AD    604      asc "-----"
32C1 AD AD AD
32C4 AD AD AD
32C7 AD AD AD
32CA AD AD AD
32CD AD AD AD
32D0 AD AD AD
32D3 AD AD AD
32D6 AD AD AD
32D9 8D 8D       605      byt RETURN,RETURN
32DB 09          606      hex 09
32DC B0 A0 AD    607      asc "0 - no DOS image found"
32DF A0 EE EF
32E2 A0 C4 CF
32E5 D3 A0 E9
32E8 ED E1 E7
32EB E5 A0 E6
32EE EF F5 EE
32F1 E4
32F2 8D          608      byt RETURN
32F3 50          609      byt RTNCMD
32F4           610      ;
32F4 A2 01       611      ldx #1
32F6           612      ;
32F6 8E 7A 3F    613      ^1 stx DOSIMAGE
32F9           614      ;
32F9 8A          615      txa
32FA 0A          616      asl
32FB AA          617      tax
32FC           618      ;
32FC BC 7B 3F    619      ldy DOSIMTBL-2,X
32FF BD 7C 3F    620      lda DOSIMTBL-1,X
3302           621      ;
3302 8C 7B 3F    622      sty DOSINAME
3305 8D 7C 3F    623      sta DOSINAME+1
3308           624      ;
3308 20 F2 37    625      jsr PRINT
330B 09          626      hex 09
330C 57          627      byt NIBLCMD
330D 7A 3F       628      adr DOSIMAGE
330F A0 AD A0    629      asc " - DOS "
3312 C4 CF D3
3315 A0
3316 56 01       630      byt BUFRCMD,INDIRECT
3318 7B 3F       631      adr DOSINAME
```

```

331A 8D          632          byt RETURN
331B 50          633          byt RTNCMD
331C            634          ;
331C AE 7A 3F    635          ldx DOSIMAGE
331F E8          636          inx
3320            637          ;
3320 E0 09       638          cpx #9
3322 D0 D2       639          bne <1
3324            640          ;
3324 20 F2 37    641          jsr PRINT
3327 09          642          hex 09
3328 B9 A0 AD    643          asc "9 - unknown DOS image"
332B A0 F5 EE
332E EB EE EF
3331 F7 EE A0
3334 C4 CF D3
3337 A0 E9 ED
333A E1 E7 E5
333D 50          644          byt RTNCMD
333E            645          ;
333E 20 A9 35    646          jsr PRESKEY
3341            647          ;
3341 20 F2 37    648          jsr PRINT
3344 00 65       649          hex 0065
3346 54 01       650          byt CLRCMD,EOPCLR
3348 D6 EF EC    651          asc "Vol|"
334B FC
334C 50          652          byt RTNCMD
334D            653          ;
334D A9 F0       654          lda #!-16
334F 8D 14 40    655          sta SHOWCNT
3352            656          ;
3352 20 F2 37    657          ^2 jsr PRINT
3355 A0          658          asc " "
3356 57          659          byt NIBLCMD
3357 14 40       660          adr SHOWCNT
3359 50          661          byt RTNCMD
335A            662          ;
335A EE 14 40    663          inc SHOWCNT
335D D0 F3       664          bne <2
335F            665          ;
335F 20 8E FD    666          jsr CROUT
3362            667          ;
3362 A0 25       668          ldy #37
3364            669          ;
3364 A9 AD       670          lda #MINUS
3366            671          ;
3366 20 ED FD    672          ^3 jsr COUT
3369            673          ;
3369 88          674          dey
336A D0 FA       675          bne <3
336C            676          ;
336C 20 F2 37    677          ^4 jsr PRINT
336F 8D          678          byt RETURN
3370 A0          679          asc " "
3371 58          680          byt BYT1CMD
3372 14 40       681          adr SHOWCNT
3374 FC          682          asc "| "
3375 50          683          byt RTNCMD
3376            684          ;
3376 A9 10       685          lda #16

```

```

3378 8D 15 40      686          sta LINECNT
337B              687          ;
337B AD 14 40      688      ^5      lda SHOWCNT
337E              689          ;
337E 20 0D 36      690          jsr GETVTOC
3381 B0 33          691          bcs >7
3383              692          ;
3383 A2 00          693          ldx #ZERO
3385              694          ;
3385 AD 00 43      695          lda VTOCSB
3388 D0 0F          696          bne >6
338A              697          ;
338A AD 01 43      698          lda FRSTTRK
338D C9 11          699          cmp #VTOCTRK
338F D0 08          700          bne >6
3391              701          ;
3391 AD 02 43      702          lda FRSTSEC
3394 F0 03          703          beq >6
3396              704          ;
3396 20 B9 33      705          jsr SELCNDOS
3399              706          ;
3399 8E 05 40      707      ^6      stx SAVNUM
339C              708          ;
339C 20 F2 37      709          jsr PRINT
339F A0              710          asc " "
33A0 57              711          byt NIBLCMD
33A1 05 40          712          adr SAVNUM
33A3 50              713          byt RTNCMD
33A4              714          ;
33A4 EE 14 40      715          inc SHOWCNT
33A7              716          ;
33A7 AD 14 40      717          lda SHOWCNT
33AA CD 11 40      718          cmp NVOLMAX
33AD F0 07          719          beq >7
33AF              720          ;
33AF CE 15 40      721          dec LINECNT
33B2 D0 C7          722          bne <5
33B4              723          ;
33B4 F0 B6          724          beq <4          ; always taken
33B6              725          ;
33B6 4C A9 35      726      ^7      jmp PRESKEY
33B9              727          ;
33B9              728          ;
33B9              729      ; The DOSBUILD entry in NDOSTBL is ignored for now.
33B9              730          ;
33B9 A2 26          731      SELCNDOS ldx #NDOSTBL
33BB A9 3E          732          lda /NDOSTBL
33BD              733          ;
33BD 86 CC          734          stx VALPTR
33BF 85 CD          735          sta VALPTR+1
33C1              736          ;
33C1 A9 2D          737          lda #NDOSLEN
33C3              738          ;
33C3 8D 09 40      739      ^1      sta TEMP
33C6              740          ;
33C6 A0 01          741          ldy #1          ; get DOS index
33C8              742          ;
33C8 B1 CC          743          lda (VALPTR),Y
33CA AA              744          tax
33CB              745          ;
33CB C8              746          iny          ; point to DOSVRSN

```

```

33CC          747 ;
33CC B1 CC    748      lda (VALPTR),Y
33CE CD 03 43 749      cmp DOSVRSN
33D1 D0 09    750      bne >2
33D3          751 ;
33D3 C8       752      iny                ; point to DOSBUILD
33D4 C8       753      iny                ; point to DOSRAM
33D5          754 ;
33D5 B1 CC    755      lda (VALPTR),Y
33D7 CD 05 43 756      cmp DOSRAM
33DA F0 14    757      beq >4
33DC          758 ;
33DC 18       759 ^2      clc                ; next entry
33DD          760 ;
33DD A5 CC    761      lda VALPTR
33DF 69 05    762      adc #NDOSIZE
33E1 85 CC    763      sta VALPTR
33E3 90 02    764      bcc >3
33E5          765 ;
33E5 E6 CD    766      inc VALPTR+1
33E7          767 ;
33E7 38       768 ^3      sec                ; decrement entry
33E8          769 ;
33E8 AD 09 40 770      lda TEMP
33EB E9 05    771      sbc #NDOSIZE
33ED D0 D4    772      bne <1
33EF          773 ;
33EF E8       774      inx                ; no matching DOS parms
33F0          775 ;
33F0 60       776 ^4      rts
33F1          777 ;
33F1          778 ;
33F1          779 ; Save the CF SLOT firmware to LBA 2 and the ROM firmware
33F1          780 ; to LBA 3:6. The CF firmware configuration data is found
33F1          781 ; in LBA 3 in bytes 04:3C.
33F1          782 ;
33F1 20 95 21 783 SAVECF jsr CLEARLBA
33F4          784 ;
33F4 A8       785      tay
33F5          786 ;
33F5 99 00 44 787 ^1      sta SLOTBUFR+PAGESIZE,Y
33F8          788 ;
33F8 C8       789      iny
33F9 D0 FA    790      bne <1
33FB          791 ;
33FB A0 00    792      ldy #SLOTBUFR
33FD A9 43    793      lda /SLOTBUFR
33FF          794 ;
33FF 84 CE    795      sty GENPTR
3401 85 CF    796      sta GENPTR+1
3403          797 ;
3403 A9 02    798      lda #2
3405 8D 44 40 799      sta LBA+3
3408          800 ;
3408 A9 05    801      lda #5
340A 8D 09 40 802      sta TEMP
340D          803 ;
340D 20 FC 2D 804 ^2      jsr WRITLBA
3410 B0 08    805      bcs >3
3412          806 ;
3412 EE 44 40 807      inc LBA+3

```

```

3415      808 ;
3415 CE 09 40 809      dec TEMP
3418 D0 F3    810      bne <2
341A      811 ;
341A 60      812 ^3      rts
341B      813 ;
341B      814 ;
341B 20 F2 37 815 RSTRDATA jsr PRINT
341E 53 01    816      byt SCRNCMD,HOMESCRN
3420 8D 55 01 817      byt RETURN,CNTRCMD,INDIRECT
3423 78 3D    818      adr STR6.06      ; "Restore CF ... Data"
3425 00 6C    819      hex 006C
3427 50      820      byt RTNCMD
3428      821 ;
3428 20 6B 35 822      jsr SELECT
342B B0 25    823      bcs >2
342D      824 ;
342D 20 95 21 825      jsr CLEARLBA
3430      826 ;
3430 A9 03    827      lda #3
3432 8D 44 40 828      sta LBA+3
3435      829 ;
3435 20 B7 2D 830      jsr READLBA2
3438 B0 18    831      bcs >2
343A      832 ;
343A 20 4B 29 833      jsr READCFG
343D      834 ;
343D A0 04    835      ldy #4
343F      836 ;
343F B9 00 43 837 ^1      lda LBABUFR,Y
3442 99 00 45 838      sta ROMBUFR,Y
3445      839 ;
3445 C8      840      iny
3446      841 ;
3446 C0 3D    842      cpy #$3C+1
3448 D0 F5    843      bne <1
344A      844 ;
344A 20 28 2A 845      jsr WRITCFG
344D B0 03    846      bcs >2
344F      847 ;
344F 20 74 11 848      jsr STATOKAY
3452      849 ;
3452 60      850 ^2      rts
3453      851 ;
3453      852 ;
3453 20 F2 37 853 RSTRFIRM jsr PRINT
3456 53 01    854      byt SCRNCMD,HOMESCRN
3458 8D 55 01 855      byt RETURN,CNTRCMD,INDIRECT
345B 91 3D    856      adr STR6.07      ; "Restore CF ... Firmware"
345D 00 6C    857      hex 006C
345F 50      858      byt RTNCMD
3460      859 ;
3460 20 6B 35 860      jsr SELECT
3463 B0 28    861      bcs >2
3465      862 ;
3465 20 95 21 863      jsr CLEARLBA
3468      864 ;
3468 A0 00    865      ldy #SLOTBUFR
346A A9 43    866      lda /SLOTBUFR
346C      867 ;
346C 84 CE    868      sty GENPTR

```

```
346E 85 CF      869      sta GENPTR+1
3470           870      ;
3470 A9 02      871      lda #2
3472 8D 44 40    872      sta LBA+3
3475           873      ;
3475 A9 05      874      lda #5
3477 8D 09 40    875      sta TEMP
347A           876      ;
347A 20 BB 2D    877      ^1      jsr READLBA
347D           878      ;
347D EE 44 40    879      inc LBA+3
3480           880      ;
3480 CE 09 40    881      dec TEMP
3483 D0 F5      882      bne <1
3485           883      ;
3485 20 66 29    884      jsr WRITCF
3488 B0 03      885      bcs >2
348A           886      ;
348A 20 74 11    887      jsr STATOKAY
348D           888      ;
348D 60         889      ^2      rts
348E           890      ;
348E           891      ;
```

BSAVE SEG06,A\$0900,B,L\$0656

```
348E           892      usr SEG06
348E           893      ;
348E           894      ;
348E           895      icl "INPUT.L"
```

LLOAD INPUT.L,A\$4000

```
348E          1          ttl "Volume Manager Source Code, INPUT.L"
348E          2          ;
348E          3          ;
348E          4          ; INPUT.L
348E          5          ;
348E          6          ;
348E          7          obj PAGE09
348E          8          usr
348E          9          ;
348E         10          ;
348E A9 02      11 GETHEX2  lda #2
3490         12          ;
3490 2C 00 00   13          bit *-*
3493         14          dfs !-2
3491         15          ;
3491 A9 04      16 GETHEX4  lda #4
3493         17          ;
3493 2C 00 00   18          bit *-*
3496         19          dfs !-2
3494         20          ;
3494 A9 06      21 GETHEX6  lda #6
3496         22          ;
3496 2C 00 00   23          bit *-*
3499         24          dfs !-2
3497         25          ;
3497 A9 08      26 GETHEX8  lda #8
3499         27          ;
3499 38         28          sec
349A B0 0C     29          bcs >1
349C         30          ;
349C         31          ;
349C A9 01      32 GETDEC1  lda #1
349E         33          ;
349E 2C 00 00   34          bit *-*
34A1         35          dfs !-2
349F         36          ;
349F A9 02      37 GETDEC2  lda #2
34A1         38          ;
34A1 2C 00 00   39          bit *-*
34A4         40          dfs !-2
34A2         41          ;
34A2 A9 03      42 GETDEC3  lda #3
34A4         43          ;
34A4 2C 00 00   44          bit *-*
34A7         45          dfs !-2
34A5         46          ;
34A5 A9 05      47 GETDEC5  lda #5
34A7         48          ;
34A7 18        49          clc
34A8         50          ;
34A8 08        51 ^1      php
34A9         52          ;
34A9 8D 27 40   53          sta NNUMS
34AC         54          ;
34AC A9 00      55          lda #ZERO
34AE         56          ;
34AE A0 0E      57          ldy #ENTRLEN-1
34B0         58          ;
34B0 99 28 40   59 ^2      sta NENTRY,Y
34B3         60          ;
```

```

34B3 88          61          dey
34B4 10 FA      62          bpl <2
34B6          63          ;
34B6 20 D2 35   64  NUMLOOP  jsr READKEY
34B9 90 03      65          bcc >3
34BB          66          ;
34BB 28         67          plp
34BC          68          ;
34BC 38         69          sec
34BD          70          ;
34BD 60         71          rts
34BE          72          ;
34BE D0 0A      73  ^3      bne >4
34C0          74          ;
34C0 AC 28 40   75          ldy NENTRY
34C3 D0 4B      76          bne NUMPROC
34C5          77          ;
34C5 28         78          plp
34C6          79          ;
34C6 A9 00      80          lda #ZERO
34C8          81          ;
34C8 18         82          clc
34C9          83          ;
34C9 60         84          rts
34CA          85          ;
34CA C9 88      86  ^4      cmp #LARROW
34CC F0 06      87          beq >5
34CE          88          ;
34CE C9 FF      89          cmp #DELETE
34D0 D0 0F      90          bne >6
34D2          91          ;
34D2 A9 88      92          lda #LARROW
34D4          93          ;
34D4 AC 28 40   94  ^5      ldy NENTRY
34D7 F0 DD      95          beq NUMLOOP
34D9          96          ;
34D9 20 E8 35   97          jsr PRNTCHAR
34DC          98          ;
34DC CE 28 40   99          dec NENTRY
34DF 10 D5     100         bpl NUMLOOP          ; always taken
34E1          101         ;
34E1 C9 E0     102  ^6      cmp #LWRCASE
34E3 90 02     103         bcc >7
34E5          104         ;
34E5 29 DF     105         and #LWRMASK
34E7          106         ;
34E7 AC 28 40  107  ^7      ldy NENTRY
34EA CC 27 40  108         cpy NNUMS
34ED B0 C7     109         bcs NUMLOOP
34EF          110         ;
34EF AA       111         tax
34F0          112         ;
34F0 E9 AF     113         sbc #"0"-1
34F2 30 C2     114         bmi NUMLOOP
34F4          115         ;
34F4 C9 0A     116         cmp #10
34F6 90 0C     117         bcc >8
34F8          118         ;
34F8 28       119         plp
34F9 08       120         php
34FA          121         ;

```

```

34FA 90 BA      122      bcc NUMLOOP
34FC           123      ;
34FC E9 11      124      sbc #17
34FE           125      ;
34FE C9 06      126      cmp #6
3500 B0 B4      127      bcs NUMLOOP
3502           128      ;
3502 69 0A      129      adc #10
3504           130      ;
3504 99 29 40    131      ^8      sta NUMVALS,Y
3507           132      ;
3507 8A          133      txa
3508           134      ;
3508 20 E8 35    135      jsr PRNTCHAR
350B           136      ;
350B EE 28 40    137      inc NENTRY
350E D0 A6      138      bne NUMLOOP      ; always taken
3510           139      ;
3510 28          140      NUMPROC  plp
3511 90 2F      141      bcc DECPROC
3513           142      ;
3513 CC 27 40    143      HEXPROC  cpy NNUMS
3516 B0 13      144      bcs >2
3518           145      ;
3518 A2 06      146      ldx #6
351A           147      ;
351A BD 29 40    148      ^1      lda NUMVALS,X
351D 9D 2A 40    149      sta NUMVALS+1,X
3520           150      ;
3520 CA          151      dex
3521 10 F7      152      bpl <1
3523           153      ;
3523 A9 00      154      lda #ZERO
3525 8D 29 40    155      sta NUMVALS
3528           156      ;
3528 C8          157      iny
3529 D0 E8      158      bne HEXPROC
352B           159      ;
352B A2 06      160      ^2      ldx #6
352D A0 03      161      ldy #3
352F           162      ;
352F BD 29 40    163      ^3      lda NUMVALS,X
3532           164      ;
3532 0A          165      asl
3533 0A          166      asl
3534 0A          167      asl
3535 0A          168      asl
3536           169      ;
3536 1D 2A 40    170      ora NUMVALS+1,X
3539 99 31 40    171      sta HEXVALS,Y
353C           172      ;
353C CA          173      dex
353D CA          174      dex
353E           175      ;
353E 88          176      dey
353F 10 EE      177      bpl <3
3541           178      ;
3541 60          179      rts
3542           180      ;
3542 AE 28 40    181      DECPROC  ldx NENTRY
3545 CA          182      dex

```

```

3546      183 ;
3546 A0 00      184      ldy #ZERO
3548      185 ;
3548 BD 29 40    186 ^1      lda NUMVALS,X
354B F0 19      187      beq >3
354D      188 ;
354D AD 35 40    189 ^2      lda DECVALS
3550 79 E1 3E    190      adc DECTBLL,Y
3553 8D 35 40    191      sta DECVALS
3556      192 ;
3556 AD 36 40    193      lda DECVALS+1
3559 79 E6 3E    194      adc DECTBLH,Y
355C 8D 36 40    195      sta DECVALS+1
355F      196 ;
355F B0 09      197      bcs >4
3561      198 ;
3561 DE 29 40    199      dec NUMVALS,X
3564 D0 E7      200      bne <2
3566      201 ;
3566 C8          202 ^3      iny
3567      203 ;
3567 CA          204      dex
3568 10 DE      205      bpl <1
356A      206 ;
356A 60          207 ^4      rts
356B      208 ;
356B      209 ;
356B 20 F2 37    210 SELECT  jsr PRINT
356E 55 00      211      byt CNTRCMD,DIRECT
3570 D0 F2 E5    212      asc "Press Any Key to Accept, ESC to Abort"
3573 F3 F3 A0
3576 C1 EE F9
3579 A0 CB E5
357C F9 A0 F4
357F EF A0 C1
3582 E3 E3 E5
3585 F0 F4 AC
3588 A0 C5 D3
358B C3 A0 F4
358E EF A0 C1
3591 E2 EF F2
3594 F4
3595 50          213      byt RTNCMD
3596      214 ;
3596 90 26      215      bcc GETKEY          ; always taken
3598      216 ;
3598      217 ;
3598 18          218 PRESKEYC clc
3599      219 ;
3599 B0 00      220      bcs *+2
359B      221      dfs !-1
359A      222 ;
359A 38          223 PRESKEYS sec
359B      224 ;
359B 08          225 PRESKEYA php
359C      226 ;
359C 20 A1 35    227      jsr PRESKEY2
359F      228 ;
359F 28          229      plp
35A0      230 ;
35A0 60          231      rts

```

```

35A1      232 ;
35A1      233 ;
35A1 20 F2 37 234 PRESKEY2 jsr PRINT
35A4 00 76    235          hex 0076
35A6 54 01    236          byt CLRCMD,EOPCLR
35A8 50       237          byt RTNCMD
35A9      238 ;
35A9      239 ;
35A9 20 F2 37 240 PRESKEY  jsr PRINT
35AC 00 77    241          hex 0077
35AE 55 00    242          byt CNTRCMD,DIRECT
35B0 D0 F2 E5 243          asc "Press Any Key"
35B3 F3 F3 A0
35B6 C1 EE F9
35B9 A0 CB E5
35BC F9
35BD 50      244          byt RTNCMD
35BE      245 ;
35BE      246 ;
35BE 2C 10 C0 247 GETKEY   bit CLRKEY
35C1      248 ;
35C1 AD 00 C0 249 ^1      lda KEY
35C4      250 ;
35C4 EA      251          nop
35C5      252 ;
35C5 10 FA    253          bpl <1
35C7      254 ;
35C7 2C 10 C0 255          bit CLRKEY
35CA      256 ;
35CA C9 9B    257          cmp #ESCAPE
35CC F0 03    258          beq >1
35CE      259 ;
35CE C9 8D    260          cmp #RETURN
35D0      261 ;
35D0 18      262          clc
35D1      263 ;
35D1 60      264 ^1      rts
35D2      265 ;
35D2      266 ;
35D2 A9 60    267 READKEY  lda #FLASH
35D4 20 ED FD 268          jsr COUT
35D7      269 ;
35D7 C6 24    270          dec CH
35D9      271 ;
35D9 20 BE 35 272          jsr GETKEY
35DC      273 ;
35DC 08      274          php
35DD 48      275          pha
35DE      276 ;
35DE A9 A0    277          lda #SPACE
35E0 20 ED FD 278          jsr COUT
35E3      279 ;
35E3 C6 24    280          dec CH
35E5      281 ;
35E5 68      282          pla
35E6 28      283          plp
35E7      284 ;
35E7 60      285          rts
35E8      286 ;
35E8      287 ;
35E8 8D EB 3E 288 PRNTCHAR sta CHARBUFR

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```

35EB      289 ;
35EB 20 F2 37 290      jsr PRINT
35EE 56 00 291      byt BUFRCMD,DIRECT
35F0 EB 3E 292      adr CHARBUFR
35F2 50 293      byt RTNCMD
35F3      294 ;
35F3 60 295      rts
35F4      296 ;
35F4      297 ;
35F4 20 8F 24 298 SELCKEY jsr CLRPTR
35F7      299 ;
35F7 20 BE 35 300      jsr GETKEY
35FA B0 0D 301      bcs >3
35FC      302 ;
35FC C9 88 303      cmp #LARROW
35FE D0 01 304      bne >1
3600      305 ;
3600 CA 306      dex
3601      307 ;
3601 C9 95 308 ^1      cmp #RARROW
3603 D0 01 309      bne >2
3605      310 ;
3605 E8 311      inx
3606      312 ;
3606 C9 8D 313 ^2      cmp #RETURN
3608      314 ;
3608 18 315      clc
3609      316 ;
3609 60 317 ^3      rts
360A      318 ;
360A      319 ;
360A AD 12 40 320 GETVTOC2 lda NVOL
360D      321 ;
360D 8D 1A 40 322 GETVTOC sta VOLUME
3610      323 ;
3610 AD 0F 40 324      lda NDRV
3613 8D 1B 40 325      sta DRIVE
3616      326 ;
3616 A9 00 327      lda #VTOCSEC
3618 8D 17 40 328      sta SECTOR
361B      329 ;
361B A9 11 330      lda #VTOCTRK
361D 8D 19 40 331      sta TRACK
3620      332 ;
3620 20 7F 36 333      jsr DVTS2LBA
3623 B0 0A 334      bcs >1
3625      335 ;
3625 A0 00 336      ldy #VTOCBUFR
3627 A9 43 337      lda /VTOCBUFR
3629      338 ;
3629 20 BB 2D 339      jsr READLBA
362C B0 21 340      bcs >2
362E      341 ;
362E 60 342      rts
362F      343 ;
362F 20 F2 37 344 ^1      jsr PRINT
3632 00 74 345      hex 0074
3634 56 00 346      byt BUFRCMD,DIRECT
3636 DA 3D 347      adr MSG3
3638 E3 EF EE 348      asc "convert DVTS to LBA"
363B F6 E5 F2

```

```

363E F4 A0 C4
3641 D6 D4 D3
3644 A0 F4 EF
3647 A0 CC C2
364A C1
364B 50          349      byt RTNCMD
364C          350      ;
364C 4C 9A 35    351      jmp PRESKEYS
364F          352      ;
364F 20 F2 37    353      ^2      jsr PRINT
3652 00 74      354      hex 0074
3654 56 00      355      byt BUFRCMD,DIRECT
3656 DA 3D      356      adr MSG3
3658 F2 E5 E1   357      asc "read VTOC LBA"
365B E4 A0 D6
365E D4 CF C3
3661 A0 CC C2
3664 C1
3665 50          358      byt RTNCMD
3666          359      ;
3666 4C 9A 35    360      jmp PRESKEYS
3669          361      ;
3669          362      ;
3669 48          363      SPLITHEX pha
366A          364      ;
366A 4A          365      lsr
366B 4A          366      lsr
366C 4A          367      lsr
366D 4A          368      lsr
366E          369      ;
366E 20 73 36    370      jsr ASCIHEX
3671          371      ;
3671 AA          372      tax
3672          373      ;
3672 68          374      pla
3673          375      ;
3673 29 0F        376      ASCIHEX and #NIBLMASK
3675          377      ;
3675 09 B0        378      ora #"0"
3677          379      ;
3677 C9 BA        380      cmp #"9"+1
3679 90 02        381      bcc >1
367B          382      ;
367B 69 06        383      adc #6
367D          384      ;
367D A8          385      ^1      tay
367E          386      ;
367E 60          387      RTN03    rts
367F          388      ;
367F          389      ;
367F 38          390      DVTS2LBA sec
3680          391      ;
3680 AE 1B 40      392      ldx DRIVE
3683          393      ;
3683 CA          394      dex
3684 30 F8        395      bmi RTN03
3686          396      ;
3686 8E 1C 40      397      stx DRIVE2
3689          398      ;
3689 A9 00        399      lda #ZERO
368B 8D 41 40      400      sta LBA

```

```

368E      401 ;
368E AD 17 40 402      lda SECTOR
3691 29 0F    403      and #SECMASKL
3693 8D 18 40 404      sta SECTOR2
3696      405 ;
3696 AD 17 40 406      lda SECTOR
3699 29 10    407      and #SECMASKH
369B 8D 0B 40 408      sta PAGE
369E      409 ;
369E AD 19 40 410      lda TRACK
36A1      411 ;
36A1 0A      412      asl
36A2 0A      413      asl
36A3 0A      414      asl
36A4 0A      415      asl
36A5      416 ;
36A5 0D 18 40 417      ora SECTOR2
36A8 8D 44 40 418      sta LBA+3
36AB      419 ;
36AB AD 1A 40 420      lda VOLUME
36AE 29 0F    421      and #NIBLMASK
36B0      422 ;
36B0 AA      423      tax
36B1      424 ;
36B1 AD 1A 40 425      lda VOLUME
36B4      426 ;
36B4 4A      427      lsr
36B5 4A      428      lsr
36B6 4A      429      lsr
36B7 4A      430      lsr
36B8      431 ;
36B8 A8      432      tay
36B9      433 ;
36B9 AD 19 40 434      lda TRACK
36BC      435 ;
36BC 4A      436      lsr
36BD 4A      437      lsr
36BE 4A      438      lsr
36BF 4A      439      lsr
36C0      440 ;
36C0 18      441      clc
36C1      442 ;
36C1 69 01    443      adc /OFFSET1
36C3 7D 77 3E 444      adc VOLXTBL,X
36C6 79 87 3E 445      adc VOLYTBLH,Y
36C9      446 ;
36C9 8D 43 40 447      sta LBA+2
36CC      448 ;
36CC 08      449      php
36CD      450 ;
36CD B9 97 3E 451      lda VOLYTBLH,Y
36D0 48      452      pha
36D1      453 ;
36D1 AD 1C 40 454      lda DRIVE2
36D4 29 0F    455      and #NIBLMASK
36D6      456 ;
36D6 AA      457      tax
36D7      458 ;
36D7 AD 1C 40 459      lda DRIVE2
36DA      460 ;
36DA 4A      461      lsr

```

```

36DB 4A          462          lsr
36DC 4A          463          lsr
36DD 4A          464          lsr
36DE            465          ;
36DE A8          466          tay
36DF            467          ;
36DF 68          468          pla
36E0 28          469          plp
36E1            470          ;
36E1 7D 77 3E    471          adc DRVXTBL,X
36E4 79 87 3E    472          adc DRVYTBL,Y
36E7            473          ;
36E7 8D 42 40    474          sta LBA+1
36EA            475          ;
36EA AD 41 40    476          lda LBA
36ED 69 00       477          adc #ZERO
36EF 8D 41 40    478          sta LBA
36F2            479          ;
36F2 CD 49 40    480          cmp LASTVOL
36F5 90 1C       481          bcc >1
36F7            482          ;
36F7 D0 1A       483          bne >1
36F9            484          ;
36F9 AD 42 40    485          lda LBA+1
36FC CD 4A 40    486          cmp LASTVOL+1
36FF 90 12       487          bcc >1
3701            488          ;
3701 D0 10       489          bne >1
3703            490          ;
3703 AD 43 40    491          lda LBA+2
3706 CD 4B 40    492          cmp LASTVOL+2
3709 90 08       493          bcc >1
370B            494          ;
370B D0 06       495          bne >1
370D            496          ;
370D AD 44 40    497          lda LBA+3
3710 CD 4B 40    498          cmp LASTVOL+2
3713            499          ;
3713 60          500          ^1 rts
3714            501          ;
3714            502          ;
3714 AD F0 BF    503          DOHOOKON lda BLDVRSN
3717 C9 45       504          cmp #DOS4VRSN
3719 D0 29       505          bne HOOKERR
371B            506          ;
371B AD F1 BF    507          lda BLDNMBR
371E C9 06       508          cmp #DOS4BLD
3720 D0 22       509          bne HOOKERR
3722            510          ;
3722            511          ;
3722            512          ; Get current disk table entry for slot CFSLOT.
3722            513          ;
3722 A9 00        514          lda #ZERO
3724            515          ;
3724 AE 1D 40     516          ldx CFSLOT
3727 20 98 37    517          jsr GETDISKS
372A            518          ;
372A C0 4B       519          cpy #CFRWTS
372C D0 05       520          bne >1
372E            521          ;
372E CD 22 40    522          cmp CFPAGE

```

```

3731 F0 10      523      beq HOKONRTN
3733           524      ;
3733 2C 0D 40    525      ^1      bit CFFAKEY
3736 10 03      526      bpl >2
3738           527      ;
3738 4C 90 37    528      jmp DOHOOK
373B           529      ;
373B A0 4B      530      ^2      ldy #CFRWTS
373D AD 22 40    531      lda CFPAGE
3740           532      ;
3740 20 98 37    533      jsr GETDISKS
3743           534      ;
3743 60          535      HOKONRTN rts
3744           536      ;
3744           537      ;
3744 20 F2 37    538      HOOKERR jsr PRINT
3747 00 74      539      hex 0074
3749 54 01      540      byt CLRCMD,EOPCLR
374B 56 00      541      byt BUFRCMD,DIRECT
374D DA 3D      542      adr MSG3
374F F6 E5 F2    543      asc "verify DOS DISKTBL"
3752 E9 E6 F9
3755 A0 C4 CF
3758 D3 A0 C4
375B C9 D3 CB
375E D4 C2 CC
3761 50          544      byt RTNCMD
3762           545      ;
3762 4C 9A 35    546      jmp PRESKEYS
3765           547      ;
3765           548      ;
3765 AD F0 BF    549      DOHOOKOF lda BLDVRSN
3768 C9 45      550      cmp #DOS4VRSN
376A D0 D8      551      bne HOOKERR
376C           552      ;
376C AD F1 BF    553      lda BLDNMBR
376F C9 06      554      cmp #DOS4BLD
3771 D0 D1      555      bne HOOKERR
3773           556      ;
3773 A9 00      557      lda #ZERO
3775           558      ;
3775 AE 1D 40    559      ldx CFSLOT
3778 20 98 37    560      jsr GETDISKS
377B           561      ;
377B C0 4B      562      cpy #CFRWTS
377D D0 10      563      bne HOKOFRTN
377F           564      ;
377F CD 22 40    565      cmp CFPAGE
3782 D0 0B      566      bne HOKOFRTN
3784           567      ;
3784 2C 0D 40    568      bit CFFAKEY
3787 10 03      569      bpl >1
3789           570      ;
3789 4C 93 37    571      jmp DOUHOOK
378C           572      ;
378C 20 96 37    573      ^1      jsr GETDISKC
378F           574      ;
378F 60          575      HOKOFRTN rts
3790           576      ;
3790           577      ;
3790 4C 10 C0     578      DOHOOK jmp CFHOOK

```

```
3793          579 ;
3793 4C 18 C0 580 DOUHOOK jmp CFUHOOK
3796          581 ;
3796 18      582 GETDISKC clc
3797          583 ;
3797 B0 00    584          bcs *+2
3799          585          dfs !-1
3798          586 ;
3798 38      587 GETDISKS sec
3799          588 ;
3799 6C F2 BF 589          jmp (MNGDISK)
379C          590 ;
379C          591 ;
379C          592          icl "PRINT.L"
```

```
LLOAD PRINT.L,A$4000
```

```

379C          1          ttl "Volume Manager Source Code, PRINT.L"
379C          2          ;
379C          3          ;
379C          4          ; PRINT.L
379C          5          ;
379C          6          ;
379C A2 03      7  HEX2DEC   ldx #3
379E          8          ;
379E A0 B0      9  ^1       ldy #"0"
37A0          10         ;
37A0 38        11         sec
37A1          12         ;
37A1 A5 CC     13  ^2       lda VALPTR
37A3 FD E0 3E  14         sbc DECTBLL-1,X
37A6 48        15         pha
37A7          16         ;
37A7 A5 CD     17         lda VALPTR+1
37A9 FD E5 3E  18         sbc DECTBLH-1,X
37AC 90 08     19         bcc >3
37AE          20         ;
37AE 85 CD     21         sta VALPTR+1
37B0          22         ;
37B0 68        23         pla
37B1 85 CC     24         sta VALPTR
37B3          25         ;
37B3 C8        26         iny
37B4 D0 EB     27         bne <2
37B6          28         ;
37B6 68        29  ^3       pla
37B7          30         ;
37B7 98        31         tya
37B8 9D A8 3E  32         sta VALBUF-1,X
37BB          33         ;
37BB CA        34         dex
37BC D0 E0     35         bne <1
37BE          36         ;
37BE 60        37         rts
37BF          38         ;
37BF          39         ;
37BF 8E D9 37  40  PRNTBUFT stx BUFRMOD
37C2 8C DA 37  41         sty BUFRMOD+1
37C5          42         ;
37C5 20 ED FD  43         jsr COUT
37C8          44         ;
37C8 4C D4 37  45         jmp PRNTBUF
37CB          46         ;
37CB 8E D9 37  47  PRNTBUFH stx BUFRMOD
37CE 8C DA 37  48         sty BUFRMOD+1
37D1          49         ;
37D1 20 DA FD  50         jsr PRBYTE
37D4          51         ;
37D4 20 F2 37  52  PRNTBUF  jsr PRINT
37D7 56 00     53         byt BUFRCMD,DIRECT
37D9 27 3F     54  BUFRMOD  adr UNKNOWN
37DB 50        55         byt RTNCMD
37DC          56         ;
37DC 60        57         rts
37DD          58         ;
37DD          59         ;
37DD 84 FC     60  PRINTIME sty PRNTPTR

```

```

37DF 85 FD      61      sta PRNTPTR+1
37E1           62      ;
37E1 A0 05      63      ldy #DATELEN-1
37E3           64      ;
37E3 B9 DB 3E   65      ^1      lda DATIMSEP,Y
37E6 20 ED FD   66      jsr COUT
37E9           67      ;
37E9 B1 FC      68      lda (PRNTPTR),Y
37EB 20 DA FD   69      jsr PRBYTE
37EE           70      ;
37EE 88         71      dey
37EF 10 F2      72      bpl <1
37F1           73      ;
37F1 60         74      rts
37F2           75      ;
37F2           76      ;
37F2 8D DC 38   77      PRINT    sta PRNTSAVA+1
37F5 8E DA 38   78      stx PRNTSAVX+1
37F8 8C D8 38   79      sty PRNTSAVY+1
37FB           80      ;
37FB 68         81      pla
37FC 85 FC      82      sta PRNTPTR
37FE           83      ;
37FE 68         84      pla
37FF 85 FD      85      sta PRNTPTR+1
3801           86      ;
3801 E6 FC      87      PRNTLOOP inc PRNTPTR
3803 D0 02      88      bne >1
3805           89      ;
3805 E6 FD      90      inc PRNTPTR+1
3807           91      ;
3807 A0 00      92      ^1      ldy #ZERO
3809           93      ;
3809 B1 FC      94      lda (PRNTPTR),Y
380B 10 10      95      bpl >3
380D           96      ;
380D C9 A0      97      cmp #SPACE
380F 90 06      98      bcc >2
3811           99      ;
3811 20 76 38   100     jsr PRNTOUT
3814           101     ;
3814 4C 01 38   102     jmp PRNTLOOP
3817           103     ;
3817 20 7A 38   104     ^2      jsr PRNTOUT2
381A           105     ;
381A 4C 01 38   106     jmp PRNTLOOP
381D           107     ;
381D C9 50      108     ^3      cmp #MAXCH
381F B0 04      109     bcs >4
3821           110     ;
3821 85 24      111     sta CH
3823           112     ;
3823 90 DC      113     bcc PRNTLOOP
3825           114     ;
3825 C9 60      115     ^4      cmp #MINCV
3827 90 0A      116     bcc >5
3829           117     ;
3829 29 1F      118     and #CVMASK
382B 85 25      119     sta CV
382D           120     ;
382D 20 22 FC   121     PRNTMOD1 jsr VTAB

```

```

3830      122 ;
3830 4C 01 38 123      jmp PRNTLOOP
3833      124 ;
3833 29 0F      125 ^5      and #PCMDMASK
3835 AA      126      tax
3836      127 ;
3836 BD 9C 38 128      lda PRNTBL,X
3839 8D 49 38 129      sta PRNTMOD2+1
383C      130 ;
383C BD AC 38 131      lda PRNTBLL,X
383F 8D 71 38 132      sta PRNTMOD3+1
3842      133 ;
3842 BD BC 38 134      lda PRNTBLH,X
3845 8D 72 38 135      sta PRNTMOD3+2
3848      136 ;
3848 90 23      137 PRNTMOD2 bcc PRNTBR6
384A      138 ;
384A C8      139 PRNTBR1  iny
384B      140 ;
384B B1 FC      141      lda (PRNTPTR),Y
384D 8D 9B 38 142      sta FRMTVAL
3850 D0 08      143      bne PRNTBR3
3852      144 ;
3852 F0 10      145      beq PRNTBR5
3854      146 ;
3854 C8      147 PRNTBR2  iny
3855      148 ;
3855 B1 FC      149      lda (PRNTPTR),Y
3857 8D 9B 38 150      sta FRMTVAL
385A      151 ;
385A C8      152 PRNTBR3  iny
385B      153 ;
385B B1 FC      154      lda (PRNTPTR),Y
385D 85 FA      155      sta DATAPTR
385F      156 ;
385F C8      157 PRNTBR4  iny
3860      158 ;
3860 B1 FC      159      lda (PRNTPTR),Y
3862 85 FB      160      sta DATAPTR+1      ; equated to PRNTVAL
3864      161 ;
3864 98      162 PRNTBR5  tya
3865      163 ;
3865 65 FC      164      adc PRNTPTR
3867 85 FC      165      sta PRNTPTR
3869 90 02      166      bcc PRNTBR6
386B      167 ;
386B E6 FD      168      inc PRNTPTR+1
386D      169 ;
386D 18      170 PRNTBR6  clc
386E      171 ;
386E A0 00      172      ldy #ZERO
3870      173 ;
3870 20 00 00 174 PRNTMOD3 jsr *-*
3873      175 ;
3873 4C 01 38 176      jmp PRNTLOOP
3876      177 ;
3876      178 ;
3876      179 PRNTOUT:
3876 09 00      180 OUTMOD1  ora #ZERO
3878 49 00      181 OUTMOD2  eor #ZERO
387A      182 ;

```

```

387A 4C ED FD      183  PRNTOUT2 jmp COUT
387D              184  ;
387D              185  ;
387D              186  ; Notes on DISPCMD as index
387D              187  ;
387D              188  ; 0 - Normal display
387D              189  ; 1 - Inverse display
387D              190  ;
387D 80 40        191  OUTTBL1  hex 8040          ; TEXT
387F 80 00        192          hex 8000          ; GRPH
3881 80 00        193          hex 8000          ; TX80
3883              194  ;
3883 00 C0        195  OUTTBL2  hex 00C0
3885 00 80        196          hex 0080
3887 00 00        197          hex 0000
3889              198  ;
3889 FF 3F        199  OUT80COL hex FF3F
388B              200  ;
388B              201  ;
388B 22 FC        202  VTABADRS adr VTAB
388D DE 38        203          adr PRINTRTN
388F 22 FC        204          adr VTAB
3891              205  ;
3891              206  ;
3891 ED FD        207  OUTADRS  adr COUT
3893 84 3A        208          adr PRNTGRPH
3895 ED FD        209          adr COUT
3897              210  ;
3897 00           211  PRNTSAV  hex 00
3898 00 00        212  PRNTNUM  hex 0000
389A              213  ;
389A              214  ;
389A              215  ; Notes on MODEVAL and FRMTVAL
389A              216  ;
389A              217  ; 0 - 40 column TEXT mode
389A              218  ; 1 - GRAPHICS mode
389A              219  ; 2 - 80 column TEXT mode
389A              220  ; 3 - exit 80 TEXT, enter 40 TEXT
389A              221  ;
389A              222  ; 0x00 - no left padding
389A              223  ; 0x20 - data in high/low order, otherwise low/high order
389A              224  ; 0x40 - zero left padding
389A              225  ; 0x80 - space left padding
389A              226  ;
389A 00           227  MODEVAL  hex 00
389B 00           228  FRMTVAL  hex 00
389C              229  ;
389C              230  ;
389C              231  ; Branch table of command routines.
389C              232  ;
389C              233  PRNTBL:
389C 23           234          byt PRNTBR6-PRNTBR1 ; 50
389D 15           235          byt PRNTBR4-PRNTBR1 ; 51
389E 15           236          byt PRNTBR4-PRNTBR1 ; 52
389F 15           237          byt PRNTBR4-PRNTBR1 ; 53
38A0 15           238          byt PRNTBR4-PRNTBR1 ; 54
38A1 00           239          byt PRNTBR1-PRNTBR1 ; 55
38A2 0A           240          byt PRNTBR2-PRNTBR1 ; 56
38A3 10           241          byt PRNTBR3-PRNTBR1 ; 57
38A4 10           242          byt PRNTBR3-PRNTBR1 ; 58
38A5 10           243          byt PRNTBR3-PRNTBR1 ; 59

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38A6 0A      244      byt PRNTBR2-PRNTBR1 ; 5A
38A7 0A      245      byt PRNTBR2-PRNTBR1 ; 5B
38A8 10      246      byt PRNTBR3-PRNTBR1 ; 5C
38A9 10      247      byt PRNTBR3-PRNTBR1 ; 5D
38AA 10      248      byt PRNTBR3-PRNTBR1 ; 5E
38AB 0A      249      byt PRNTBR2-PRNTBR1 ; 5F
38AC          250      ;
38AC          251      ;
38AC          252      ; Address tables of command routines.
38AC          253      ;
38AC          254      PRNTBLL:
38AC CC      255      byt PRNTRTN          ; 50
38AD DF      256      byt PRNTMODE         ; 51
38AE 2A      257      byt PRNTDISP         ; 52
38AF 49      258      byt PRNTSCRN         ; 53
38B0 59      259      byt PRNTCLR          ; 54
38B1 63      260      byt PRNTCNTR         ; 55
38B2 85      261      byt PRNTBUFR         ; 56
38B3 A1      262      byt PRNTNIBL         ; 57
38B4 AA      263      byt PRNT1BYT         ; 58
38B5 AD      264      byt PRNT2BYT         ; 59
38B6 A6      265      byt PRNTNBYT         ; 5A
38B7 B9      266      byt PRNTADR          ; 5B
38B8 D1      267      byt PRNT1DEC         ; 5C
38B9 D7      268      byt PRNT2DEC         ; 5D
38BA E4      269      byt PRNT3DEC         ; 5E
38BB EE      270      byt PRNTNDEC         ; 5F
38BC          271      ;
38BC          272      PRNTBLH:
38BC 38      273      hby PRNTRTN          ; 50
38BD 38      274      hby PRNTMODE         ; 51
38BE 39      275      hby PRNTDISP         ; 52
38BF 39      276      hby PRNTSCRN         ; 53
38C0 39      277      hby PRNTCLR          ; 54
38C1 39      278      hby PRNTCNTR         ; 55
38C2 39      279      hby PRNTBUFR         ; 56
38C3 39      280      hby PRNTNIBL         ; 57
38C4 39      281      hby PRNT1BYT         ; 58
38C5 39      282      hby PRNT2BYT         ; 59
38C6 39      283      hby PRNTNBYT         ; 5A
38C7 39      284      hby PRNTADR          ; 5B
38C8 39      285      hby PRNT1DEC         ; 5C
38C9 39      286      hby PRNT2DEC         ; 5D
38CA 39      287      hby PRNT3DEC         ; 5E
38CB 39      288      hby PRNTNDEC         ; 5F
38CC          289      ;
38CC          290      ;
38CC          291      ; RTNCMD (0x50)
38CC          292      ;
38CC BA      293      PRNTRTN    tsx
38CD          294      ;
38CD A5 FC    295      lda PRNTPTR
38CF 9D 01 01 296      sta STACK+1,X
38D2          297      ;
38D2 A5 FD    298      lda PRNTPTR+1
38D4 9D 02 01 299      sta STACK+2,X
38D7          300      ;
38D7 A0 00    301      PRNTSAVY  ldy #ZERO
38D9 A2 00    302      PRNTSAVX  ldx #ZERO
38DB A9 00    303      PRNTSAVA  lda #ZERO
38DD          304      ;

```

```

38DD 18          305          clc
38DE          306          ;
38DE 60          307  PRINTRTN rts
38DF          308          ;
38DF          309          ;
38DF          310          ; MODECMD (0x51)
38DF          311          ;
38DF          312          ; 0 - 40 column TEXT mode
38DF          313          ; 1 - GRAPHICS mode
38DF          314          ; 2 - 80 column TEXT mode
38DF          315          ; 3 - exit 80 TEXT, enter 40 TEXT
38DF          316          ;
38DF A5 FB      317  PRNTMODE lda PRNTVAL          ; display mode
38E1 29 03      318          and #3
38E3          319          ;
38E3 C9 02      320          cmp #TX80MODE
38E5 D0 09      321          bne >1
38E7          322          ;
38E7 A9 B3      323          lda #"3"
38E9 20 95 FE   324          jsr OUTPORT
38EC          325          ;
38EC A9 02      326          lda #TX80MODE
38EE D0 1A      327          bne >2
38F0          328          ;
38F0 C9 03      329  ^1      cmp #LV80MODE
38F2 D0 16      330          bne >2
38F4          331          ;
38F4 AD 89 38   332          lda OUT80COL
38F7 85 32      333          sta INVFLG
38F9          334          ;
38F9 A9 9B      335          lda #ESCAPE
38FB 20 ED FD   336          jsr COUT
38FE          337          ;
38FE A9 91      338          lda #CTRLQ
3900 20 ED FD   339          jsr COUT
3903          340          ;
3903 A9 B0      341          lda #"0"
3905 20 95 FE   342          jsr OUTPORT
3908          343          ;
3908 A9 00      344          lda #TEXTMODE
390A          345          ;
390A 8D 9A 38   346  ^2      sta MODEVAL
390D          347          ;
390D 0A          348          asl
390E A8          349          tay
390F          350          ;
390F B9 8B 38   351          lda VTABADRS,Y
3912 8D 2E 38   352          sta PRNTMOD1+1
3915          353          ;
3915 B9 8C 38   354          lda VTABADRS+1,Y
3918 8D 2F 38   355          sta PRNTMOD1+2
391B          356          ;
391B B9 91 38   357          lda OUTADRS,Y
391E 8D 7B 38   358          sta PRNTOUT2+1
3921          359          ;
3921 B9 92 38   360          lda OUTADRS+1,Y
3924 8D 7C 38   361          sta PRNTOUT2+2
3927          362          ;
3927 4C EA 03   363          jmp HOOKDOS
392A          364          ;
392A          365          ;

```

```
392A      366 ; DISPCMD (0x52)
392A      367 ;
392A      368 ; 0 - Normal display
392A      369 ; 1 - Inverse display
392A      370 ;
392A A4 FB 371 PRNTDISP ldy PRNTVAL ; display mode
392C      372 ;
392C AD 9A 38 373 lda MODEVAL
392F C9 02 374 cmp #TX80MODE
3931 D0 05 375 bne >1
3933      376 ;
3933 BE 89 38 377 ldx OUT80COL,Y
3936 86 32 378 stx INVFLG
3938      379 ;
3938 0A 380 ^1 asl ; clears C-flag
3939 65 FB 381 adc PRNTVAL
393B      382 ;
393B A8 383 tay
393C      384 ;
393C B9 7D 38 385 lda OUTTBL1,Y
393F 8D 77 38 386 sta OUTMOD1+1
3942      387 ;
3942 B9 83 38 388 lda OUTTBL2,Y
3945 8D 79 38 389 sta OUTMOD2+1
3948      390 ;
3948 60 391 rts
3949      392 ;
3949      393 ;
3949      394 ; SCRNCMD (0x53)
3949      395 ;
3949      396 ; 0 - INIT
3949      397 ; 1 - HOME
3949      398 ;
3949 2C 54 C0 399 PRNTSCRN bit LOWSCR
394C      400 ;
394C      401 .if DISPLAY=GRPHMODE
394C      402 ;
394C      403 lda MODEVAL
394C      404 cmp #GRPHMODE
394C      405 bne >2
394C      406 ;
394C      407 lda PRNTVAL
394C      408 bne >1
394C      409 ;
394C      410 jmp SCRNNINIT
394C      411 ;
394C      412 ^1 jmp SCRNHOME
394C      413 ;
394C      414 .fi
394C      415 ;
394C A5 FB 416 ^2 lda PRNTVAL
394E D0 06 417 bne >3
3950      418 ;
3950 2C 51 C0 419 bit TXTSET
3953      420 ;
3953 4C 2F FB 421 jmp INIT
3956      422 ;
3956 4C 58 FC 423 ^3 jmp HOME
3959      424 ;
3959      425 ;
3959      426 ; CLRCMD (0x54)
```

```

3959      427 ;
3959      428 ; 0 - EOL
3959      429 ; 1 - EOP
3959      430 ;
3959      431 PRNTCLR:
3959      432      .if DISPLAY=GRPHMODE
3959      433 ;
3959      434      lda MODEVAL
3959      435      cmp #GRPHMODE
3959      436      bne >2
3959      437 ;
3959      438      lda PRNTVAL
3959      439      bne >1
3959      440 ;
3959      441      jmp SCRNEOL
3959      442 ;
3959      443 ^1      jmp SCRNEOP
3959      444 ;
3959      445      .fi
3959      446 ;
3959 A5 FB      447 ^2      lda PRNTVAL
395B D0 03     448      bne >3
395D          449 ;
395D 4C 9C FC  450      jmp CLREOL
3960          451 ;
3960 4C 42 FC  452 ^3      jmp CLREOP
3963          453 ;
3963          454 ;
3963          455 ; CNTRCMD (0x55)
3963          456 ;
3963          457 ; 0 - center and print immediate ASCII data
3963          458 ; 1 - center and print buffer ASCII data
3963          459 ;
3963 A9 9F      460 PRNTCNTR lda #SPACE-1
3965          461 ;
3965 AE 9B 38   462      ldx FRMTVAL
3968 D0 07     463      bne >2
396A          464 ;
396A C8        465 ^1      iny
396B          466 ;
396B D1 FC     467      cmp (PRNTPTR),Y
396D 90 FB     468      bcc <1
396F          469 ;
396F B0 05     470      bcs >3          ; always taken
3971          471 ;
3971 C8        472 ^2      iny
3972          473 ;
3972 D1 FA     474      cmp (DATAPTR),Y
3974 90 FB     475      bcc <2
3976          476 ;
3976 88        477 ^3      dey
3977 98        478      tya
3978          479 ;
3978 49 FF     480      eor #NEGONE
397A 65 21     481      adc WNDWIDTH
397C          482 ;
397C 4A        483      lsr
397D          484 ;
397D 65 20     485      adc WNDLFT
397F 85 24     486      sta CH
3981          487 ;

```

```

3981 8A          488          txa
3982 D0 10      489          bne PRNTBFR
3984           490          ;
3984 60          491          rts
3985           492          ;
3985           493          ;
3985           494          ; BUFRCMD (0x56)
3985           495          ;
3985           496          ; 0 - direct address
3985           497          ; 1 - indirect address
3985           498          ;
3985 AD 9B 38    499 PRNTBUFR lda FRMTVAL
3988 F0 0C      500          beq >1
398A           501          ;
398A B1 FA      502          lda (DATAPTR),Y
398C AA         503          tax
398D           504          ;
398D C8         505          iny
398E           506          ;
398E B1 FA      507          lda (DATAPTR),Y
3990           508          ;
3990 86 FA       509          stx DATAPTR
3992 85 FB       510          sta DATAPTR+1
3994           511          ;
3994 A0 00       512 PRNTBFR  ldy #ZERO
3996           513          ;
3996 B1 FA       514          ^1    lda (DATAPTR),Y
3998 F0 06       515          beq >2
399A           516          ;
399A 20 76 38    517          jsr PRNTOUT
399D           518          ;
399D C8         519          iny
399E D0 F6       520          bne <1
39A0           521          ;
39A0 60         522          ^2    rts
39A1           523          ;
39A1           524          ;
39A1           525          ; NIBLCMD (0x57)
39A1           526          ;
39A1 B1 FA      527 PRNTNIBL lda (DATAPTR),Y
39A3           528          ;
39A3 4C 3E 3A    529          jmp PRNTHEx
39A6           530          ;
39A6           531          ;
39A6           532          ; BYT1CMD (0x58)
39A6           533          ; BYT2CMD (0x59)
39A6           534          ; BYTNCMD (0x5A)
39A6           535          ;
39A6           536          PRNTNBYT:
39A6 AE 9B 38    537          ldx FRMTVAL
39A9           538          ;
39A9 2C 00 00    539          bit *-*
39AC           540          dfs !-2
39AA           541          ;
39AA A2 01       542 PRNT1BYT ldx #1
39AC           543          ;
39AC 2C 00 00    544          bit *-*
39AF           545          dfs !-2
39AD           546          ;
39AD A2 02       547 PRNT2BYT ldx #2
39AF           548          ;

```

```

39AF B1 FA      549 PRNTBYT  lda (DATAPTR),Y
39B1           550 ;
39B1 20 35 3A   551          jsr PRNTBYTE
39B4           552 ;
39B4 C8         553          iny
39B5           554 ;
39B5 CA         555          dex
39B6 D0 F7      556          bne PRNTBYT
39B8           557 ;
39B8 60         558          rts
39B9           559 ;
39B9           560 ;
39B9           561 ; ADRCMD (0x5B)
39B9           562 ;
39B9           563 ; 0 - direct address
39B9           564 ; 1 - indirect address
39B9           565 ;
39B9 AD 9B 38   566 PRNTADR  lda FRMTVAL
39BC D0 06      567          bne >1
39BE           568 ;
39BE A6 FA      569          ldx DATAPTR
39C0 A5 FB      570          lda DATAPTR+1
39C2           571 ;
39C2 90 06      572          bcc >2          ; always taken
39C4           573 ;
39C4 B1 FA      574 ^1          lda (DATAPTR),Y
39C6 AA         575          tax
39C7           576 ;
39C7 C8         577          iny
39C8           578 ;
39C8 B1 FA      579          lda (DATAPTR),Y
39CA           580 ;
39CA 20 35 3A   581 ^2          jsr PRNTBYTE
39CD           582 ;
39CD 8A         583          txa
39CE           584 ;
39CE 4C 35 3A   585          jmp PRNTBYTE
39D1           586 ;
39D1           587 ;
39D1           588 ; DEC1CMD (0x5C)
39D1           589 ;
39D1 20 4B 3A   590 PRNT1DEC  jsr HEXTODEC
39D4           591 ;
39D4 4C 3E 3A   592          jmp PRNTHX
39D7           593 ;
39D7           594 ;
39D7           595 ; DEC2CMD (0x5D)
39D7           596 ;
39D7 20 4B 3A   597 PRNT2DEC  jsr HEXTODEC
39DA           598 ;
39DA           599 ;
39DA 8A         600 PRNTDEC   txa
39DB 20 3E 3A   601          jsr PRNTHX
39DE           602 ;
39DE AD 97 38   603          lda PRNTSAV
39E1           604 ;
39E1 4C 3E 3A   605          jmp PRNTHX
39E4           606 ;
39E4           607 ;
39E4           608 ; DEC3CMD (0x5E)
39E4           609 ;

```

```

39E4 20 4B 3A    610 PRNT3DEC jsr HEXTODEC
39E7             611 ;
39E7 98         612         tya
39E8             613 ;
39E8 20 3E 3A    614         jsr PRNTHex
39EB             615 ;
39EB 4C DA 39    616         jmp PRNTDEC
39EE             617 ;
39EE             618 ;
39EE             619 ; DECNCMD (0x5F)
39EE             620 ;
39EE             621 ; 0x00 - no left padding
39EE             622 ; 0x20 - data in high/low order, otherwise low/high order
39EE             623 ; 0x40 - zero left padding
39EE             624 ; 0x80 - space left padding
39EE             625 ;
39EE B1 FA       626 PRNTNDEC lda (DATAPTR),Y
39F0 AA          627         tax
39F1             628 ;
39F1 C8          629         iny
39F2             630 ;
39F2 B1 FA       631         lda (DATAPTR),Y
39F4 A8          632         tay
39F5             633 ;
39F5 AD 9B 38    634         lda FRMTVAL
39F8 29 20       635         and #HIGHLOW
39FA D0 09       636         bne >1
39FC             637 ;
39FC 8E 98 38    638         stx PRNTNUM
39FF 8C 99 38    639         sty PRNTNUM+1
3A02             640 ;
3A02 4C 0B 3A    641         jmp >2
3A05             642 ;
3A05 8C 98 38    643 ^1         sty PRNTNUM
3A08 8E 99 38    644         stx PRNTNUM+1
3A0B             645 ;
3A0B A2 03       646 ^2         ldx #3
3A0D             647 ;
3A0D 2C 9B 38    648         bit FRMTVAL
3A10 70 18       649         bvs >6
3A12             650 ;
3A12 20 65 3A    651 ^3         jsr GETDIGIT
3A15 D0 16       652         bne >7
3A17             653 ;
3A17 2C 9B 38    654         bit FRMTVAL
3A1A 10 05       655         bpl >4
3A1C             656 ;
3A1C A9 A0       657         lda #SPACE
3A1E 20 76 38    658         jsr PRNTOUT
3A21             659 ;
3A21 CA          660 ^4         dex
3A22 10 EE       661         bpl <3
3A24             662 ;
3A24 AD 98 38    663 ^5         lda PRNTNUM
3A27             664 ;
3A27 4C 3E 3A    665         jmp PRNTHex
3A2A             666 ;
3A2A 20 65 3A    667 ^6         jsr GETDIGIT
3A2D             668 ;
3A2D 20 3E 3A    669 ^7         jsr PRNTHex
3A30             670 ;

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```

3A30 CA          671          dex
3A31 10 F7       672          bpl <6
3A33             673          ;
3A33 30 EF       674          bmi <5          ; always taken
3A35             675          ;
3A35             676          ;
3A35 48          677 PRNTBYTE pha
3A36             678          ;
3A36 4A          679          lsr
3A37 4A          680          lsr
3A38 4A          681          lsr
3A39 4A          682          lsr
3A3A             683          ;
3A3A 20 40 3A    684          jsr PRNTHX2
3A3D             685          ;
3A3D 68          686          pla
3A3E             687          ;
3A3E             688          ;
3A3E 29 0F       689 PRNTHX and #NIBLMASK
3A40             690          ;
3A40 09 B0       691 PRNTHX2 ora #"0"
3A42             692          ;
3A42 C9 BA       693          cmp #"9"+1
3A44 90 02       694          bcc >1
3A46             695          ;
3A46 69 06       696          adc #6
3A48             697          ;
3A48 4C 76 38    698 ^1      jmp PRNTOUT
3A4B             699          ;
3A4B             700          ;
3A4B B1 FA       701 HEXTODEC lda (DATAPTR),Y
3A4D             702          ;
3A4D A2 00       703          ldx #ZERO
3A4F             704          ;
3A4F C9 64       705 ^1      cmp #100
3A51 90 05       706          bcc >2
3A53             707          ;
3A53 E9 64       708          sbc #100
3A55             709          ;
3A55 C8          710          iny
3A56 D0 F7       711          bne <1
3A58             712          ;
3A58 C9 0A       713 ^2      cmp #10
3A5A 90 05       714          bcc >3
3A5C             715          ;
3A5C E9 0A       716          sbc #10
3A5E             717          ;
3A5E E8          718          inx
3A5F D0 F7       719          bne <2
3A61             720          ;
3A61 8D 97 38    721 ^3      sta PRNTSAV
3A64             722          ;
3A64 60          723          rts
3A65             724          ;
3A65             725          ;
3A65 A0 00       726 GETDIGIT ldy #ZERO
3A67             727          ;
3A67 38          728 ^1      sec
3A68             729          ;
3A68 AD 98 38    730          lda PRNTNUM
3A6B FD E2 3E    731          sbc DECTBLL+1,X

```

```
3A6E 48          732          pha
3A6F          733          ;
3A6F AD 99 38    734          lda PRNTNUM+1
3A72 FD E7 3E    735          sbc DECTBLH+1,X
3A75 90 0A       736          bcc >2
3A77          737          ;
3A77 8D 99 38    738          sta PRNTNUM+1
3A7A          739          ;
3A7A 68          740          pla
3A7B 8D 98 38    741          sta PRNTNUM
3A7E          742          ;
3A7E C8          743          iny
3A7F D0 E6       744          bne <1
3A81          745          ;
3A81 68          746          ^2          pla
3A82          747          ;
3A82 98          748          tya
3A83          749          ;
3A83 60          750          rts
3A84          751          ;
3A84          752          ;
3A84          753          PRNTGRPH:
3A84          754          ;
3A84          755          .if DISPLAY=GRPHMODE
3A84          756          ;
3A84          757          cmp #SPACE
3A84          758          bcs >3
3A84          759          ;
3A84          760          cmp #ASCIFLAG
3A84          761          bcc >3
3A84          762          ;
3A84          763          cmp #BELLCHAR
3A84          764          bne >1
3A84          765          ;
3A84          766          jmp BELL
3A84          767          ;
3A84          768          ^1          cmp #RTN
3A84          769          beq >2
3A84          770          ;
3A84          771          cmp #LARROW
3A84          772          bne >1
3A84          773          ;
3A84          774          dec CH
3A84          775          ;
3A84          776          ^1          cmp #DARROW
3A84          777          bne >1
3A84          778          ;
3A84          779          inc CV
3A84          780          ;
3A84          781          ^1          cmp #UARROW
3A84          782          bne >1
3A84          783          ;
3A84          784          dec CV
3A84          785          ;
3A84          786          ^1          cmp #RARROW
3A84          787          bne >1
3A84          788          ;
3A84          789          inc CH
3A84          790          ;
3A84          791          ^1          rts
3A84          792          ;
```

```
3A84      793  ^2      lda WNDLFT
3A84      794          sta CH
3A84      795  ;
3A84      796          inc CV
3A84      797  ;
3A84      798          lda CV
3A84      799          cmp WNDBTM
3A84      800          bcc >8
3A84      801  ;
3A84      802          jmp SCROLL
3A84      803  ;
3A84      804  ^3      stx SCRNSAVX+1
3A84      805          sty SCRNSAVY+1
3A84      806  ;
3A84      807          ldx /CHARTBL
3A84      808  ;
3A84      809          ldy #ZERO
3A84      810  ;
3A84      811          asl
3A84      812          bcs >4
3A84      813  ;
3A84      814          ldy #INVRMASK
3A84      815  ;
3A84      816          sec
3A84      817  ;
3A84      818  ^4      sty SCRNMOD2+1
3A84      819  ;
3A84      820          sbc #$40
3A84      821  ;
3A84      822          asl
3A84      823          bcc >5
3A84      824  ;
3A84      825          ldx /CHARTBL+$200
3A84      826  ;
3A84      827  ^5      asl
3A84      828          bcc >6
3A84      829  ;
3A84      830          inx
3A84      831  ;
3A84      832          clc
3A84      833  ;
3A84      834  ^6      adc #CHARTBL
3A84      835          sta SCRNMOD1+1
3A84      836          bcc >7
3A84      837  ;
3A84      838          inx
3A84      839  ;
3A84      840  ^7      stx SCRNMOD1+2
3A84      841  ;
3A84      842          clc
3A84      843  ;
3A84      844          ldx CV
3A84      845  ;
3A84      846          lda YBASELO,X
3A84      847          sta SCRNMOD3+1
3A84      848  ;
3A84      849          lda YBASEHI,X
3A84      850          sta SCRNMOD3+2
3A84      851  ;
3A84      852          ldy CH
3A84      853          ldx #CHARCELL
```

```
3A84      854      ;
3A84      855      SCRNMOD1 lda  *-,X
3A84      856      ;
3A84      857      SCRNMOD2 eor  #ZERO
3A84      858      ;
3A84      859      SCRNMOD3 sta  *-,Y
3A84      860      ;
3A84      861              lda  SCRNMOD3+2
3A84      862              adc  #NEXTLINE
3A84      863              sta  SCRNMOD3+2
3A84      864      ;
3A84      865              dex
3A84      866              bpl  SCRNMOD1
3A84      867      ;
3A84      868              iny
3A84      869      ;
3A84      870      SCRNMOD4 cpy  #MAXWDTH
3A84      871              bcs  <2
3A84      872      ;
3A84      873              sty  CH
3A84      874      ;
3A84      875      SCRNSAVY ldy  #ZERO
3A84      876      SCRNSAVX ldx  #ZERO
3A84      877      ;
3A84      878      ^8      rts
3A84      879      ;
3A84      880      ;
3A84      881      SCRNINIT bit  HIRES
3A84      882              bit  MIXCLR
3A84      883              bit  TXTCLR
3A84      884      ;
3A84      885              clc
3A84      886      ;
3A84      887              lda  #MAXWDTH
3A84      888              adc  WNDLFT
3A84      889              sta  SCRNMOD4+1
3A84      890              sta  EOLMOD1+1
3A84      891              sta  SCRLMOD3+1
3A84      892      ;
3A84      893              rts
3A84      894      ;
3A84      895      ;
3A84      896      SCROLL   lda  WNDLFT
3A84      897              sta  CH
3A84      898      ;
3A84      899              ldx  WNDBTM
3A84      900              dex
3A84      901              stx  SCRLMOD4+1
3A84      902      ;
3A84      903              ldx  WNDTOP
3A84      904              stx  CV
3A84      905      ;
3A84      906      ^1      lda  YBASELO,X
3A84      907              sta  SCRLMOD2+1
3A84      908      ;
3A84      909              lda  YBASEHI,X
3A84      910              sta  SCRLMOD2+2
3A84      911      ;
3A84      912              inx
3A84      913              stx  CV
3A84      914      ;
```

```
3A84      915      lda YBASELO,X
3A84      916      sta SCRLMOD1+1
3A84      917      ;
3A84      918      lda YBASEHI,X
3A84      919      sta SCRLMOD1+2
3A84      920      ;
3A84      921      ldx #CHARCELL
3A84      922      ;
3A84      923      ^2      ldY CH
3A84      924      ;
3A84      925      SCRLMOD1 lda *-,Y
3A84      926      SCRLMOD2 sta *-,Y
3A84      927      ;
3A84      928      iny
3A84      929      ;
3A84      930      SCRLMOD3 cpy #MAXWDTH
3A84      931      bcc SCRLMOD1
3A84      932      ;
3A84      933      lda SCRLMOD1+2
3A84      934      adc #NEXTLINE-1
3A84      935      sta SCRLMOD1+2
3A84      936      ;
3A84      937      lda SCRLMOD2+2
3A84      938      adc #NEXTLINE
3A84      939      sta SCRLMOD2+2
3A84      940      ;
3A84      941      dex
3A84      942      bpl <2
3A84      943      ;
3A84      944      ldx CV
3A84      945      SCRLMOD4 cpx #LOC0
3A84      946      bne <1
3A84      947      ;
3A84      948      ;
3A84      949      SCRNEOL ldx CV
3A84      950      ;
3A84      951      lda YBASELO,X
3A84      952      sta EOLMOD2+1
3A84      953      ;
3A84      954      lda YBASEHI,X
3A84      955      sta EOLMOD2+2
3A84      956      ;
3A84      957      ldx #CHARCELL
3A84      958      ;
3A84      959      ^1      ldY CH
3A84      960      ;
3A84      961      lda #ZERO
3A84      962      ;
3A84      963      EOLMOD1 cpy #MAXWDTH
3A84      964      bcs >2
3A84      965      ;
3A84      966      EOLMOD2 sta *-,Y
3A84      967      ;
3A84      968      iny
3A84      969      bne EOLMOD1
3A84      970      ;
3A84      971      ^2      lda EOLMOD2+2
3A84      972      adc #NEXTLINE-1
3A84      973      sta EOLMOD2+2
3A84      974      ;
3A84      975      dex
```

```
3A84      976      bpl <1
3A84      977      ;
3A84      978      rts
3A84      979      ;
3A84      980      ;
3A84      981      SCRNHOM  lda WNDLFT
3A84      982      sta CH
3A84      983      ;
3A84      984      lda WNDTOP
3A84      985      sta CV
3A84      986      ;
3A84      987      ;
3A84      988      SCRNEOP  jsr SCRNEOL
3A84      989      ;
3A84      990      lda CH
3A84      991      pha
3A84      992      ;
3A84      993      lda CV
3A84      994      pha
3A84      995      ;
3A84      996      lda WNDLFT
3A84      997      sta CH
3A84      998      ;
3A84      999      ^1      inc CV
3A84     1000      ;
3A84     1001      lda CV
3A84     1002      cmp WNDBTM
3A84     1003      bcs >2
3A84     1004      ;
3A84     1005      jsr SCRNEOL
3A84     1006      bmi <1
3A84     1007      ;
3A84     1008      ^2      pla
3A84     1009      sta CV
3A84     1010      ;
3A84     1011      pla
3A84     1012      sta CH
3A84     1013      ;
3A84     1014      rts
3A84     1015      ;
3A84     1016      ;
3A84     1017      YBASELO:
3A84     1018      ;
3A84     1019      hex 0080008000800080
3A84     1020      hex 28A828A828A828A8
3A84     1021      hex 50D050D050D050D0
3A84     1022      ;
3A84     1023      YBASEHI:
3A84     1024      ;
3A84     1025      hex 2020212122222323
3A84     1026      hex 2020212122222323
3A84     1027      hex 2020212122222323
3A84     1028      ;
3A84     1029      ;
3A84     1030      CHARTBL:
3A84     1031      ;
3A84     1032      hex 0000000000000000 ;
3A84     1033      hex 0008000808080808 ; !
3A84     1034      hex 0000000000141414 ; "
3A84     1035      hex 0014143E143E1414 ; #
3A84     1036      hex 00081E281C0A3C08 ; $
```

```
3A84      1037      hex 0030320408102606 ; %
3A84      1038      hex 002C122A040A0A04 ; &
3A84      1039      hex 00000000000080808 ; ^
3A84      1040      hex 0010080404040810 ; (
3A84      1041      hex 0004081010100804 ; )
3A84      1042      hex 00082A1C081C2A08 ; *
3A84      1043      hex 000008083E080800 ; +
3A84      1044      hex 0408080000000000 ; ,
3A84      1045      hex 000000003E000000 ; -
3A84      1046      hex 0008000000000000 ; .
3A84      1047      hex 0000020408102000 ; /
3A84      1048      ;
3A84      1049      hex 001C22262A32221C ; 0
3A84      1050      hex 001C080808080C08 ; 1
3A84      1051      hex 003E02041820221C ; 2
3A84      1052      hex 001C22201810203E ; 3
3A84      1053      hex 0010103E12141810 ; 4
3A84      1054      hex 001C2220201E023E ; 5
3A84      1055      hex 001C22221E020438 ; 6
3A84      1056      hex 000404040810203E ; 7
3A84      1057      hex 001C22221C22221C ; 8
3A84      1058      hex 000E10203C22221C ; 9
3A84      1059      hex 0000080008000000 ; :
3A84      1060      hex 0408080008000000 ; ;
3A84      1061      hex 0020100804081020 ; <
3A84      1062      hex 0000003E003E0000 ; =
3A84      1063      hex 0002040810080402 ; >
3A84      1064      hex 000800089820221C ; ?
3A84      1065      ;
3A84      1066      hex 003C021A2A3A221C ; @
3A84      1067      hex 0022223E22221408 ; A
3A84      1068      hex 001E22221E22221E ; B
3A84      1069      hex 001C22020202221C ; C
3A84      1070      hex 001E22222222221E ; D
3A84      1071      hex 003E02021E02023E ; E
3A84      1072      hex 000202021E02023E ; F
3A84      1073      hex 003C22320202023C ; G
3A84      1074      hex 002222223E222222 ; H
3A84      1075      hex 001C08080808081C ; I
3A84      1076      hex 001C222020202020 ; J
3A84      1077      hex 0022120A060A1222 ; K
3A84      1078      hex 003E020202020202 ; L
3A84      1079      hex 002222222A2A3622 ; M
3A84      1080      hex 002222322A262222 ; N
3A84      1081      hex 001C22222222221C ; O
3A84      1082      ;
3A84      1083      hex 000202021E22221E ; P
3A84      1084      hex 002C122A2222221C ; Q
3A84      1085      hex 0022120A1E22221E ; R
3A84      1086      hex 001C22201C02221C ; S
3A84      1087      hex 000808080808083E ; T
3A84      1088      hex 001C222222222222 ; U
3A84      1089      hex 0008142222222222 ; V
3A84      1090      hex 0022362A2A222222 ; W
3A84      1091      hex 0022221408142222 ; X
3A84      1092      hex 0008080808142222 ; Y
3A84      1093      hex 003E02040810203E ; Z
3A84      1094      hex 003C04040404043C ; [
3A84      1095      hex 0000201008040200 ; \
3A84      1096      hex 001E10101010101E ; ]
3A84      1097      hex 0000000000221408 ; ^
```

```
3A84      1098      hex 7F0000000000000000 ; _
3A84      1099      ;
3A84      1100      hex 00000000000100804 ; `
3A84      1101      hex 003C223C201C0000 ; a
3A84      1102      hex 001E2222221E0202 ; b
3A84      1103      hex 003C0202023C0000 ; c
3A84      1104      hex 003C2222223C2020 ; d
3A84      1105      hex 003C023E221C0000 ; e
3A84      1106      hex 000404041E042418 ; f
3A84      1107      hex 1C203C22221C0000 ; g
3A84      1108      hex 00222222221E0202 ; h
3A84      1109      hex 001C0808080C0008 ; i
3A84      1110      hex 0C12101010180010 ; j
3A84      1111      hex 0022120E12220202 ; k
3A84      1112      hex 001C08080808080C ; l
3A84      1113      hex 00222A2A2A360000 ; m
3A84      1114      hex 00222222221E0000 ; n
3A84      1115      hex 001C2222221C0000 ; o
3A84      1116      ;
3A84      1117      hex 02021E22221E0000 ; p
3A84      1118      hex 20203C22223C0000 ; q
3A84      1119      hex 00020202063A0000 ; r
3A84      1120      hex 001E201C023C0000 ; s
3A84      1121      hex 00182404041E0404 ; t
3A84      1122      hex 002C322222220000 ; u
3A84      1123      hex 0008142222220000 ; v
3A84      1124      hex 00362A2A22220000 ; w
3A84      1125      hex 0022140814220000 ; x
3A84      1126      hex 1C203C2222220000 ; y
3A84      1127      hex 003E0408103E0000 ; z
3A84      1128      hex 0030080804080830 ; {
3A84      1129      hex 0808080808080808 ; |
3A84      1130      hex 0006080810080806 ; }
3A84      1131      hex 0000000000001A2C ; ~
3A84      1132      hex 00002A142A142A00 ;
3A84      1133      ;
3A84      1134      ;
3A84      1135      .fi
3A84      1136      ;
3A84      1137      ;
```

BSAVE SEG07,A\$0900,B,L\$05F6

```
3A84      1138      usr SEG07
3A84      1139      ;
3A84      1140      ;
3A84      1141      icl "STRING.L"
```

LLOAD STRING.L,A\$4000

```
3A84          1          ttl "Volume Manager Source Code, STRING.L"
3A84          2          ;
3A84          3          ;
3A84          4          ; STRING.L
3A84          5          ;
3A84          6          ;
3A84          7          obj PAGE09
3A84          8          usr
3A84          9          ;
3A84         10          ;
3A84         11          ; CODE1.L strings
3A84         12          ;
3A84 D3 E1 F6    13  STR1.01  asc "Save CFFA Firmware to Disk"
3A87 E5 A0 C3
3A8A C6 C6 C1
3A8D A0 C6 E9
3A90 F2 ED F7
3A93 E1 F2 E5
3A96 A0 F4 EF
3A99 A0 C4 E9
3A9C F3 EB
3A9E 00          14          byt ZERO
3A9F          15          ;
3A9F C9 EE F3    16  STR1.02  asc "Install CFFA Firmware from Disk"
3AA2 F4 E1 EC
3AA5 EC A0 C3
3AA8 C6 C6 C1
3AAB A0 C6 E9
3AAE F2 ED F7
3AB1 E1 F2 E5
3AB4 A0 E6 F2
3AB7 EF ED A0
3ABA C4 E9 F3
3ABD EB
3ABE 00          17          byt ZERO
3ABF          18          ;
3ABF C9 EE F3    19  STR1.03  asc "Install Default DOS from Disk"
3AC2 F4 E1 EC
3AC5 EC A0 C4
3AC8 E5 E6 E1
3ACB F5 EC F4
3ACE A0 C4 CF
3AD1 D3 A0 E6
3AD4 F2 EF ED
3AD7 A0 C4 E9
3ADA F3 EB
3ADC 00          20          byt ZERO
3ADD          21          ;
3ADD C4 E9 F3    22  STR1.04  asc "Display CF Memory Utilization"
3AE0 F0 EC E1
3AE3 F9 A0 C3
3AE6 C6 A0 CD
3AE9 E5 ED EF
3AEC F2 F9 A0
3AEF D5 F4 E9
3AF2 EC E9 FA
3AF5 E1 F4 E9
3AF8 EF EE
3AFA 00          23          byt ZERO
3AFB          24          ;
```

```
3AFB C4 E9 F3      25  STR1.05  asc "Display Identify Device Contents"
3AFE F0 EC E1
3B01 F9 A0 C9
3B04 E4 E5 EE
3B07 F4 E9 E6
3B0A F9 A0 C4
3B0D E5 F6 E9
3B10 E3 E5 A0
3B13 C3 EF EE
3B16 F4 E5 EE
3B19 F4 F3
3B1B 00            26          byt ZERO
3B1C              27  ;
3B1C D3 E1 F6      28  STR1.06  asc "Save Identify Device to LBA 7"
3B1F E5 A0 C9
3B22 E4 E5 EE
3B25 F4 E9 E6
3B28 F9 A0 C4
3B2B E5 F6 E9
3B2E E3 E5 A0
3B31 F4 EF A0
3B34 CC C2 C1
3B37 A0 B7
3B39 00            29          byt ZERO
3B3A              30  ;
3B3A D3 E1 F6      31  STR1.07  asc "Save Selected LBA to Disk"
3B3D E5 A0 D3
3B40 E5 EC E5
3B43 E3 F4 E5
3B46 E4 A0 CC
3B49 C2 C1 A0
3B4C F4 EF A0
3B4F C4 E9 F3
3B52 EB
3B53 00            32          byt ZERO
3B54              33  ;
3B54 D2 E5 F3      34  STR1.08  asc "Restore Selected LBA from Disk"
3B57 F4 EF F2
3B5A E5 A0 D3
3B5D E5 EC E5
3B60 E3 F4 E5
3B63 E4 A0 CC
3B66 C2 C1 A0
3B69 E6 F2 EF
3B6C ED A0 C4
3B6F E9 F3 EB
3B72 00            35          byt ZERO
3B73              36  ;
3B73 C3 EC E5      37  STR1.09  asc "Clear Selected LBA Range"
3B76 E1 F2 A0
3B79 D3 E5 EC
3B7C E5 E3 F4
3B7F E5 E4 A0
3B82 CC C2 C1
3B85 A0 D2 E1
3B88 EE E7 E5
3B8B 00            38          byt ZERO
3B8C              39  ;
3B8C CC E9 F3      40  STR1.10  asc "List All Drives"
3B8F F4 A0 C1
3B92 EC EC A0
```

```
3B95 C4 F2 E9
3B98 F6 E5 F3
3B9B 00          41          byt ZERO
3B9C          42 ;
3B9C C4 E9 F3   43 STR1.11  asc "Display Drive Information"
3B9F F0 EC E1
3BA2 F9 A0 C4
3BA5 F2 E9 F6
3BA8 E5 A0 C9
3BAB EE E6 EF
3BAE F2 ED E1
3BB1 F4 E9 EF
3BB4 EE
3BB5 00          44          byt ZERO
3BB6          45 ;
3BB6 C3 E8 E1   46 STR1.12  asc "Change Drive Information"
3BB9 EE E7 E5
3BBC A0 C4 F2
3BBF E9 F6 E5
3BC2 A0 C9 EE
3BC5 E6 EF F2
3BC8 ED E1 F4
3BCB E9 EF EE
3BCE 00          47          byt ZERO
3BCF          48 ;
3BCF C4 E9 F3   49 STR1.13  asc "Display Drive Volumes Catalog Size"
3BD2 F0 EC E1
3BD5 F9 A0 C4
3BD8 F2 E9 F6
3BDB E5 A0 D6
3BDE EF EC F5
3BE1 ED E5 F3
3BE4 A0 C3 E1
3BE7 F4 E1 EC
3BEA EF E7 A0
3BED D3 E9 FA
3BF0 E5
3BF1 00          50          byt ZERO
3BF2          51 ;
3BF2 C4 E9 F3   52 STR1.14  asc "Display Volume VTOC Information"
3BF5 F0 EC E1
3BF8 F9 A0 D6
3BFB EF EC F5
3BFE ED E5 A0
3C01 D6 D4 CF
3C04 C3 A0 C9
3C07 EE E6 EF
3C0A F2 ED E1
3C0D F4 E9 EF
3C10 EE
3C11 00          53          byt ZERO
3C12          54 ;
3C12 C4 E9 F3   55 STR1.15  asc "Display Sector Bitmap Information"
3C15 F0 EC E1
3C18 F9 A0 D3
3C1B E5 E3 F4
3C1E EF F2 A0
3C21 C2 E9 F4
3C24 ED E1 F0
3C27 A0 C9 EE
3C2A E6 EF F2
```

```
3C2D ED E1 F4
3C30 E9 EF EE
3C33 00          56          byt ZERO
3C34          57 ;
3C34 C9 EE E9    58 STR1.16  asc "Initialize a CF Volume"
3C37 F4 E9 E1
3C3A EC E9 FA
3C3D E5 A0 E1
3C40 A0 C3 C6
3C43 A0 D6 EF
3C46 EC F5 ED
3C49 E5
3C4A 00          59          byt ZERO
3C4B          60 ;
3C4B C2 EF EF    61 STR1.17  asc "Boot a CF Volume"
3C4E F4 A0 E1
3C51 A0 C3 C6
3C54 A0 D6 EF
3C57 EC F5 ED
3C5A E5
3C5B 00          62          byt ZERO
3C5C          63 ;
3C5C CC E9 F3    64 STR1.18  asc "List Installed DOS Images"
3C5F F4 A0 C9
3C62 EE F3 F4
3C65 E1 EC EC
3C68 E5 E4 A0
3C6B C4 CF D3
3C6E A0 C9 ED
3C71 E1 E7 E5
3C74 F3
3C75 00          65          byt ZERO
3C76          66 ;
3C76 D3 E5 EC    67 STR1.19  asc "Select DOS Image for Boot"
3C79 E5 E3 F4
3C7C A0 C4 CF
3C7F D3 A0 C9
3C82 ED E1 E7
3C85 E5 A0 E6
3C88 EF F2 A0
3C8B C2 EF EF
3C8E F4
3C8F 00          68          byt ZERO
3C90          69 ;
3C90          70 ;
3C90          71 ; CODE2.L strings
3C90          72 ;
3C90 CD E1 EE    73 STR2.01  asc "Manage Firmware"
3C93 E1 E7 E5
3C96 A0 C6 E9
3C99 F2 ED F7
3C9C E1 F2 E5
3C9F 00          74          byt ZERO
3CA0          75 ;
3CA0 CD E1 EE    76 STR2.02  asc "Manage CompactFlash Card"
3CA3 E1 E7 E5
3CA6 A0 C3 EF
3CA9 ED F0 E1
3CAC E3 F4 C6
3CAF EC E1 F3
3CB2 E8 A0 C3
```

```

3CB5 E1 F2 E4
3CB8 00          77          byt ZERO
3CB9          78 ;
3CB9 CD E1 EE    79 STR2.03  asc "Manage Drives"
3CBC E1 E7 E5
3CBF A0 C4 F2
3CC2 E9 F6 E5
3CC5 F3
3CC6 00          80          byt ZERO
3CC7          81 ;
3CC7 CD E1 EE    82 STR2.04  asc "Manage Volumes"
3CCA E1 E7 E5
3CCD A0 D6 EF
3CD0 EC F5 ED
3CD3 E5 F3
3CD5 00          83          byt ZERO
3CD6          84 ;
3CD6 CD E1 EE    85 STR2.05  asc "Manage Bootable DOS Images"
3CD9 E1 E7 E5
3CDC A0 C2 EF
3CDF EF F4 E1
3CE2 E2 EC E5
3CE5 A0 C4 CF
3CE8 D3 A0 C9
3CEB ED E1 E7
3CEE E5 F3
3CF0 00          86          byt ZERO
3CF1          87 ;
3CF1          88 ;
3CF1          89 ; CODE3.L strings
3CF1          90 ;
3CF1 CE E5 F7    91 STR3.01  asc "New Description"
3CF4 A0 C4 E5
3CF7 F3 E3 F2
3CFA E9 F0 F4
3CFD E9 EF EE
3D00 00          92          byt ZERO
3D01          93 ;
3D01          94 ;
3D01          95 ; CODE6.L strings
3D01          96 ;
3D01 D3 E8 EF    97 STR6.01  asc "Show DOS Image Description"
3D04 F7 A0 C4
3D07 CF D3 A0
3D0A C9 ED E1
3D0D E7 E5 A0
3D10 C4 E5 F3
3D13 E3 F2 E9
3D16 F0 F4 E9
3D19 EF EE
3D1B 00          98          byt ZERO
3D1C          99 ;
3D1C CD EF E4    100 STR6.02  asc "Modify DOS Image Description"
3D1F E9 E6 F9
3D22 A0 C4 CF
3D25 D3 A0 C9
3D28 ED E1 E7
3D2B E5 A0 C4
3D2E E5 F3 E3
3D31 F2 E9 F0
3D34 F4 E9 EF

```

```
3D37 EE
3D38 00          101          byt ZERO
3D39          102 ;
3D39 C4 CF D3   103 STR6.03  asc "DOS Image "
3D3C A0 C9 ED
3D3F E1 E7 E5
3D42 A0
3D43 B0          104 MOD6.03  asc "0"
3D44 00          105          byt ZERO
3D45          106 ;
3D45 C4 E9 F3   107 STR6.04  asc "Display Volume LBA Range"
3D48 F0 EC E1
3D4B F9 A0 D6
3D4E EF EC F5
3D51 ED E5 A0
3D54 CC C2 C1
3D57 A0 D2 E1
3D5A EE E7 E5
3D5D 00          108          byt ZERO
3D5E          109 ;
3D5E C4 E9 F3   110 STR6.05  asc "Display Drive Volumes DOS"
3D61 F0 EC E1
3D64 F9 A0 C4
3D67 F2 E9 F6
3D6A E5 A0 D6
3D6D EF EC F5
3D70 ED E5 F3
3D73 A0 C4 CF
3D76 D3
3D77 00          111          byt ZERO
3D78          112 ;
3D78 D2 E5 F3   113 STR6.06  asc "Restore CF Firmware Data"
3D7B F4 EF F2
3D7E E5 A0 C3
3D81 C6 A0 C6
3D84 E9 F2 ED
3D87 F7 E1 F2
3D8A E5 A0 C4
3D8D E1 F4 E1
3D90 00          114          byt ZERO
3D91          115 ;
3D91 D2 E5 F3   116 STR6.07  asc "Restore CF Slot/ROM Firmware"
3D94 F4 EF F2
3D97 E5 A0 C3
3D9A C6 A0 D3
3D9D EC EF F4
3DA0 AF D2 CF
3DA3 CD A0 C6
3DA6 E9 F2 ED
3DA9 F7 E1 F2
3DAC E5
3DAD 00          117          byt ZERO
3DAE          118 ;
3DAE          119 ;
3DAE A0 AD A0   120 MSG1      asc " - Return to Main Menu"
3DB1 D2 E5 F4
3DB4 F5 F2 EE
3DB7 A0 F4 EF
3DBA A0 CD E1
3DBD E9 EE A0
3DC0 CD E5 EE
```

```
3DC3 F5
3DC4 00          121          byt ZERO
3DC5           122          ;
3DC5 E3 E8 E1    123  MSG2    asc "characters remaining"
3DC8 F2 E1 E3
3DCB F4 E5 F2
3DCE F3 A0 F2
3DD1 E5 ED E1
3DD4 E9 EE E9
3DD7 EE E7
3DD9 00          124          byt ZERO
3DDA           125          ;
3DDA D3 F4 E1    126  MSG3    asc "Status:  unable to "
3DDD F4 F5 F3
3DE0 BA A0 A0
3DE3 F5 EE E1
3DE6 E2 EC E5
3DE9 A0 F4 EF
3DEC A0
3DED 00          127          byt ZERO
3DEE           128          ;
3DEE           129          ;
3DEE           130          icl "DATA.L"
```

```
LLOAD DATA.L,A$4000
```

```
3DEE          1          ttl "Volume Manager Source Code, DATA.L"
3DEE          2          ;
3DEE          3          ;
3DEE          4          ; DATA.L
3DEE          5          ;
3DEE          6          ;
3DEE          7          SIGBYTES:
3DEE          8          ;
3DEE          9          ORIGSIG1:
3DEE A9 20      10          lda #$20
3DF0 A2 00      11          ldx #$00
3DF2 A9 03      12          lda #$03
3DF4 A9 3C      13          lda #$3C
3DF6          14          ;
3DF6          15          ORIGSIG2:
3DF6 A9 20      16          lda #$20
3DF8 A2 00      17          ldx #$00
3DFA A9 03      18          lda #$03
3DFC A9 00      19          lda #$00
3DFE          20          ;
3DFE          21          CFFASIG:
3DFE 69 20      22          adc #$20
3E00 A0 00      23          ldy #$00
3E02 A2 03      24          ldx #$03
3E04 86 3C      25          stx $3C
3E06          26          ;
0008          27          SIGLEN equ *-CFFASIG
3E06          28          ;
3E06          29          DISKSIG:
3E06 A2 20      30          ldx #$20
3E08 A0 00      31          ldy #$00
3E0A A2 03      32          ldx #$03
3E0C 86 3C      33          stx $3C
3E0E          34          ;
3E0E          35          RAMDSIG:
3E0E 49 20      36          eor #$20
3E10 A0 00      37          ldy #$00
3E12 A2 03      38          ldx #$03
3E14 86 3C      39          stx $3C
3E16          40          ;
3E16          41          RANASIG:
3E16 09 20      42          ora #$20
3E18 A0 00      43          ldy #$00
3E1A A2 03      44          ldx #$03
3E1C 86 3C      45          stx $3C
3E1E          46          ;
3E1E          47          SIDERSIG:
3E1E 29 20      48          and #$20
3E20 A0 00      49          ldy #$00
3E22 A2 03      50          ldx #$03
3E24 86 3C      51          stx $3C
3E26          52          ;
3E26          53          ;
3E26          54          ; This table contains the data to determine if a volume has
3E26          55          ; been initialized by a particular DOS in the CF DOS
3E26          56          ; partition. The entries are Entry, Index, DOSVRSN,
3E26          57          ; DOSBUILD, and DOSRAM. Currently, DOSBUILD is not one of
3E26          58          ; the variables that is verified.
3E26          59          ;
3E26          60          NDOSTBL:
```

```

3E26      61 ;
3E26      62 ;      MNEM EN  IN  DV  DB  DR      DOS
3E26      63 ;      -----
3E26 00 01 03 64      byt $00,$01,$03,$00,$00 ; DOS 3.3
3E29 00 00
0005      65 NDOSIZE equ *-NDOSTBL
3E2B 01 01 33 66      byt $01,$01,$33,$00,$00 ; DOS 3.3
3E2E 00 00
3E30 02 02 41 67      byt $02,$02,$41,$46,$CC ; DOS 4.1L
3E33 46 CC
3E35 03 03 41 68      byt $03,$03,$41,$46,$C8 ; DOS 4.1H
3E38 46 C8
3E3A 04 04 43 69      byt $04,$04,$43,$08,$C8 ; DOS 4.3H
3E3D 08 C8
3E3F 05 05 45 70      byt $05,$05,$45,$05,$CC ; DOS 4.5L
3E42 05 CC
3E44 06 06 45 71      byt $06,$06,$45,$06,$C8 ; DOS 4.5H
3E47 06 C8
3E49 07 07 F1 72      byt $07,$07,$F1,$00,$00 ; User 1 DOS
3E4C 00 00
3E4E 08 08 F2 73      byt $08,$08,$F2,$00,$00 ; User 2 DOS
3E51 00 00
3E53      74 ;
002D      75 NDOSLEN equ *-NDOSTBL
3E53      76 ;
3E53      77 ;
3E53      78 ; CF drives begin at 0x100, are 0x30000 in size, and
3E53      79 ; remaining volumes are 0x300 in size.
3E53      80 ;
3E53      81 ; CF card, size, drives, remaining volumes, residue:
3E53      82 ;
3E53      83 ; 256 MB, 0x0007A7FF, 2, 140, 0x2FF
3E53      84 ; 512 MB, 0x000F45EF, 5, 22, 0x2EF
3E53      85 ; 1 GB, 0x001E8BDF, 10, 46, 0x0DF
3E53      86 ; 2 GB, 0x003D0FDF, 20, 90, 0x0DF
3E53      87 ; 4 GB, 0x007A7E3F, 40, 212, 0x13F
3E53      88 ; 8 GB, 0x00EE6C00, 79, 121, 0x000
3E53      89 ;
3E53      90 ;
3E53      91 ; TOPMEM - IDBUFR+offset 0x7A to determine CF size
3E53      92 ; TOPVOL - no use
3E53      93 ; CFSIZE - size in GB, value 0x81=256MB, value 0x82=512MB
3E53      94 ; CFDRIVES - number of full drives plus one partial drive
3E53      95 ;
3E53 07 0F 1E 96 TOPMEM hex 070F1E3D7AEE
3E56 3D 7A EE
3E59      97 ;TOPVOL hex 060C1E3C78F3
3E59 81 82 01 98 CFSIZE hex 818201020408
3E5C 02 04 08
3E5F 03 06 0B 99 CFDRIVES hex 03060B152950
3E62 15 29 50
3E65 8C 16 2E 100 EXTRVOLS hex 8C162E5AD479
3E68 5A D4 79
3E6B      101 ;
3E6B C4 B8 90 102 SIGNUM hex C4B890ED
3E6E ED
3E6F      103 ;
0004      104 SIGNUMLN equ *-SIGNUM
3E6F      105 ;
3E6F      106 IMAGLBA:
3E6F 10      107 byt OFFSET0+IMAGSIZE*0

```

```
3E70 28      108      byt OFFSET0+IMAGSIZE*1
3E71 40      109      byt OFFSET0+IMAGSIZE*2
3E72 58      110      byt OFFSET0+IMAGSIZE*3
3E73 70      111      byt OFFSET0+IMAGSIZE*4
3E74 88      112      byt OFFSET0+IMAGSIZE*5
3E75 A0      113      byt OFFSET0+IMAGSIZE*6
3E76 B8      114      byt OFFSET0+IMAGSIZE*7
3E77         115      ;
3E77         116      DRVXTBL:
3E77         117      VOLXTBL:
3E77 00      118      byt VOLXINC*00
3E78 03      119      byt VOLXINC*01
3E79 06      120      byt VOLXINC*02
3E7A 09      121      byt VOLXINC*03
3E7B 0C      122      byt VOLXINC*04
3E7C 0F      123      byt VOLXINC*05
3E7D 12      124      byt VOLXINC*06
3E7E 15      125      byt VOLXINC*07
3E7F 18      126      byt VOLXINC*08
3E80 1B      127      byt VOLXINC*09
3E81 1E      128      byt VOLXINC*10
3E82 21      129      byt VOLXINC*11
3E83 24      130      byt VOLXINC*12
3E84 27      131      byt VOLXINC*13
3E85 2A      132      byt VOLXINC*14
3E86 2D      133      byt VOLXINC*15
3E87         134      ;
3E87         135      ;
3E87         136      VOLYTBL:
3E87         137      DRVYTBL:
3E87 00      138      byt VOLYINC*00
3E88 30      139      byt VOLYINC*01
3E89 60      140      byt VOLYINC*02
3E8A 90      141      byt VOLYINC*03
3E8B C0      142      byt VOLYINC*04
3E8C F0      143      byt VOLYINC*05
3E8D 20      144      byt VOLYINC*06
3E8E 50      145      byt VOLYINC*07
3E8F 80      146      byt VOLYINC*08
3E90 B0      147      byt VOLYINC*09
3E91 E0      148      byt VOLYINC*10
3E92 10      149      byt VOLYINC*11
3E93 40      150      byt VOLYINC*12
3E94 70      151      byt VOLYINC*13
3E95 A0      152      byt VOLYINC*14
3E96 D0      153      byt VOLYINC*15
3E97         154      ;
3E97         155      VOLYTBLH:
3E97 00      156      hby VOLYINC*00
3E98 00      157      hby VOLYINC*01
3E99 00      158      hby VOLYINC*02
3E9A 00      159      hby VOLYINC*03
3E9B 00      160      hby VOLYINC*04
3E9C 00      161      hby VOLYINC*05
3E9D 01      162      hby VOLYINC*06
3E9E 01      163      hby VOLYINC*07
3E9F 01      164      hby VOLYINC*08
3EA0 01      165      hby VOLYINC*09
3EA1 01      166      hby VOLYINC*10
3EA2 02      167      hby VOLYINC*11
3EA3 02      168      hby VOLYINC*12
```

```

3EA4 02          169          hby VOLYINC*13
3EA5 02          170          hby VOLYINC*14
3EA6 02          171          hby VOLYINC*15
3EA7            172          ;
3EA7            173          ;
3EA7 30 C0       174 CFBOOT    adr VOLBOOT
3EA9            175          ;
3EA9 B0 B0 B0    176 VALBUF    asc "000"
3EAC            177          ;
3EAC            178 VSNBUFR    dfs VSNLEN+1,ZERO
3EC1            179 VERSION    dfs VRSNLEN+1,ZERO
3ED0            180          ;
3ED0            181          ;
3ED0 23 24 28    182 TRKVLTLBL hex 23242830
3ED3 30
3ED4 00 80       183 SECVLTBL hex 0080
3ED6 80 00       184 TYPVLTLBL hex 8000
3ED8 06 34 14    185 BOOTVTBL hex 063414
3EDB            186          ;
3EDB            187          ;
3EDB            188          ; Time and Date separators.
3EDB            189          ;
3EDB BA BA A0    190 DATIMSEP asc " :: // "
3EDE AF AF A0
3EE1            191          ;
3EE1            192          ;
3EE1            193          ; Hex to decimal conversion tables.
3EE1            194          ;
3EE1 01 0A 64    195 DECTBLLL byt 1,10,100,1000,10000
3EE4 E8 10
3EE6 00 00 00    196 DECTBLH   hby 1,10,100,1000,10000
3EE9 03 27
3EEB            197          ;
3EEB            198          ;
3EEB A0 00       199 CHARBUFR byt SPACE,ZERO
3EED            200 NAMEBUFR dfs NAMELEN+1,ZERO
3F06            201          ;
3F06            202          ;
3F06 C3 C6 C6    203 CFFAMSG   asc "CFFA"
3F09 C1
3F0A 00          204          byt ZERO
3F0B            205          ;
3F0B C4 E9 F3    206 DISKMSG   asc "Disk"
3F0E EB
3F0F 00          207          byt ZERO
3F10            208          ;
3F10            209          ;
3F10 A0 A8 C8    210 DOSRAMH   asc " (High RAM)"
3F13 E9 E7 E8
3F16 A0 D2 C1
3F19 CD A9
3F1B 00          211          byt ZERO
3F1C            212          ;
3F1C A0 A8 CC    213 DOSRAML   asc " (Low RAM)"
3F1F EF F7 A0
3F22 D2 C1 CD
3F25 A9
3F26 00          214          byt ZERO
3F27            215          ;
3F27 A0 A8 F5    216 UNKNOWN   asc " (unknown)"
3F2A EE EB EE

```

```

3F2D EF F7 EE
3F30 A9
3F31 00          217          byt ZERO
3F32          218          ;
3F32 A0 A8 C2    219  VOLTYPB  asc " (Boot Disk)"
3F35 EF EF F4
3F38 A0 C4 E9
3F3B F3 EB A9
3F3E 00          220          byt ZERO
3F3F          221          ;
3F3F A0 A8 C4    222  VOLTYPD  asc " (Data Disk)"
3F42 E1 F4 E1
3F45 A0 C4 E9
3F48 F3 EB A9
3F4B 00          223          byt ZERO
3F4C          224          ;
3F4C A0 A8 EE    225  ALLDIRN  asc " (negative)"
3F4F E5 E7 E1
3F52 F4 E9 F6
3F55 E5 A9
3F57 00          226          byt ZERO
3F58          227          ;
3F58 A0 A8 F0    228  ALLDIRP  asc " (positive)"
3F5B EF F3 E9
3F5E F4 E9 F6
3F61 E5 A9
3F63 00          229          byt ZERO
3F64          230          ;
3F64 A0 A8 EC    231  LOCKL   asc " (locked)"
3F67 EF E3 EB
3F6A E5 E4 A9
3F6D 00          232          byt ZERO
3F6E          233          ;
3F6E A0 A8 F5    234  LOCKU   asc " (unlocked)"
3F71 EE EC EF
3F74 E3 EB E5
3F77 E4 A9
3F79 00          235          byt ZERO
3F7A          236          ;
3F7A          237          ;
3F7A          238          ; DOS image names.
3F7A          239          ;
3F7A          240  DOSIMAGE  dfs 1,ZERO
3F7B 8D 3F      241  DOSINAME  adr DOSIMAG1
3F7D          242          ;
3F7D 8D 3F      243  DOSIMTBL  adr DOSIMAG1
3F7F 91 3F      244          adr DOSIMAG2
3F81 96 3F      245          adr DOSIMAG3
3F83 9B 3F      246          adr DOSIMAG4
3F85 A0 3F      247          adr DOSIMAG5
3F87 A5 3F      248          adr DOSIMAG6
3F89 AA 3F      249          adr DOSIMAG7
3F8B B0 3F      250          adr DOSIMAG8
3F8D          251          ;
3F8D B3 AE B3    252  DOSIMAG1  asc "3.3"
3F90 00          253          byt ZERO
3F91          254          ;
3F91 B4 AE B1    255  DOSIMAG2  asc "4.1L"
3F94 CC
3F95 00          256          byt ZERO
3F96          257          ;

```

```

3F96 B4 AE B1    258  DOSIMAG3 asc "4.1H"
3F99 C8
3F9A 00          259          byt ZERO
3F9B          260          ;
3F9B B4 AE B3    261  DOSIMAG4 asc "4.3H"
3F9E C8
3F9F 00          262          byt ZERO
3FA0          263          ;
3FA0 B4 AE B5    264  DOSIMAG5 asc "4.5L"
3FA3 CC
3FA4 00          265          byt ZERO
3FA5          266          ;
3FA5 B4 AE B5    267  DOSIMAG6 asc "4.5H"
3FA8 C8
3FA9 00          268          byt ZERO
3FAA          269          ;
3FAA D5 F3 E5    270  DOSIMAG7 asc "User1"
3FAD F2 B1
3FAF 00          271          byt ZERO
3FB0          272          ;
3FB0 D5 F3 E5    273  DOSIMAG8 asc "User2"
3FB3 F2 B2
3FB5 00          274          byt ZERO
3FB6          275          ;
3FB6          276          ;
3FB6          277          ; RWTS Input/Output Context Block
3FB6          278          ;
3FB6          279  TBLTYPE   dfs 1,1
3FB7          280  SLOT16    dfs 1,ZERO
3FB8          281  DRV       dfs 1,ZERO
3FB9          282  VOL       dfs 1,ZERO
3FBA 00          283  TNUM     hex 00
3FBB 00          284  SNUM     hex 00
3FBC BC 3F       285  DCTADR   adr *
3FBE 00 43       286  USRBUF   adr RWTSBUFR
3FC0          287  RWTSPHAS  dfs 1,ZERO
3FC1 01          288  BYTCNT   hby PAGESIZE
3FC2          289  CMDCODE   dfs 1,1
3FC3          290  ERRCODE   dfs 1,ZERO
3FC4          291  VOLFND    dfs 1,ZERO
3FC5          292  SLOTFND   dfs 1,ZERO
3FC6          293  DRVFND    dfs 1,ZERO
3FC7          294          ;
3FC7          295          ;
3FC7          296          ; File Manager Context Block
3FC7          297          ;
3FC7          298  FMVALS:
3FC7          299          ;
3FC7 0B          300  OPCODE   byt INITCMD
3FC8 00          301  SUBCODE   hex 00
3FC9          302          ;
3FC9 BE 40       303  FN2ADR   adr VOLTITLE
3FCB          304          ;
3FCB 00          305  FMVOLUME  hex 00
3FCC 00          306  FMDRIVE   hex 00
3FCD          307          ;
3FCD 00          308  FMSLOT    hex 00
3FCE 00          309  FMFTYPE   hex 00
3FCF          310          ;
3FCF D7 40       311  FNADR     adr BOOTFILE
3FD1          312          ;

```

```
3FD1 00          313 RTNCODE   hex 00
3FD2            314 ;
3FD2 00          315 FMPHASE   hex 00
3FD3            316 ;
3FD3 D5 3F      317 WBADR      adr SECVAL
3FD5 00          318 SECVAL     hex 00
3FD6 00          319 ENDTRK     hex 00
3FD7 00 00       320 SUBJCT     hex 0000
3FD9            321 ;
0012            322 FMPLN      equ *-FMVALS
3FD9            323 ;
3FD9            324 ;
```

BSAVE SEG08,A\$0900,B,L\$0555

```
3FD9            325          usr SEG08
3FD9            326 ;
3FD9            327 ;
3FD9            328          dfs PAGESIZE-*)&NEGONE,ZERO
4000            329 ;
4000            330 ;
4000            331 DATABUFR:
4000            332 ;
4000            333 SAVCH      dfs 1
4001            334 SAVCV      dfs 1
4002            335 ;
4002            336 SAVA       dfs 1
4003            337 SAVX       dfs 1
4004            338 SAVY       dfs 1
4005            339 ;
4005            340 SAVNUM     dfs 1
4006            341 SAVPTR     dfs 1
4007            342 SAVTOP     dfs 1
4008            343 SAVBTM     dfs 1
4009            344 ;
4009            345 TEMP       dfs 1
400A            346 YORN       dfs 1
400B            347 ;
400B            348 PAGE       dfs 1
400C            349 FLAG       dfs 1
400D            350 ;
400D            351 CFFAKEY    dfs 1
400E            352 ;
400E            353 NSIZE      dfs 1
400F            354 NDRV       dfs 1
4010            355 NDRVS      dfs 1
4011            356 NVOLMAX    dfs 1
4012            357 NVOL       dfs 1
4013            358 NVOLS      dfs 1
4014            359 ;
4014            360 SHOWCNT    dfs 1
4015            361 LINECNT    dfs 1
4016            362 PAGECNT    dfs 1
4017            363 ;
4017            364 SECTOR     dfs 1
4018            365 SECTOR2    dfs 1
4019            366 TRACK       dfs 1
401A            367 VOLUME     dfs 1
401B            368 DRIVE       dfs 1
401C            369 DRIVE2     dfs 1
401D            370 ;
```

```
401D      371  CFSLOT      dfs 1
401E      372  DISKSLOT   dfs 1
401F      373  DISKDRV    dfs 1
4020      374  ;
4020      375  CFSLOT16   dfs 1
4021      376  DSKSLT16   dfs 1
4022      377  ;
4022      378  CFPAGE      dfs 1
4023      379  DISKPAGE    dfs 1
4024      380  ;
4024      381  CFINDEX     dfs 1
4025      382  ;
4025      383  SAVROMER    dfs 2
4027      384  ;
4027      385  ;
4027      386  NNUMS       dfs 1
4028      387  NENTRY      dfs 1
4029      388  ;
4029      389  NUMVALS     dfs 8
4031      390  ;
4031      391  HEXVALS     dfs 4
4035      392  DECVALS     dfs 2
4037      393  ;
000F      394  ENTRLEN     equ *-NENTRY
4037      395  ;
4037      396  ;
4037      397  IDCYLNUM    dfs 2
4039      398  IDHDSNUM    dfs 2
403B      399  IDSPTNUM    dfs 2
403D      400  ;
403D      401  IDLBANUM    dfs LBALEN
4041      402  ;
4041      403  LBA         dfs LBALEN
4045      404  LASTLBA     dfs LBALEN
4049      405  ;
4049      406  LASTVOL     dfs LBALEN
404D      407  FRSTFREE    dfs LBALEN
4051      408  LASTFREE    dfs LBALEN
4055      409  ;
4055      410  CDMESG      dfs CDMSGLEN
405A      411  ;
405A      412  INSRLBUF    dfs IDSRLLEN
406E      413  ;
406E      414  IDSRLBUF    dfs IDSRLLEN+1
4083      415  IDFRMBUF    dfs IDFRMLLEN+1
408C      416  IDMDLBUF    dfs IDMDLLEN+1
40A5      417  ;
40A5      418  CFOLDNAM    dfs NAMELEN+1
40BE      419  VOLTITLE    dfs NAMELEN+1
40D7      420  BOOTFILE    dfs NAMELEN+1
40F0      421  FMDATE      dfs DATELEN
40F6      422  ;
40F6      423  ;
40F6      424  ;          dfs PAGESIZE-*)&NEGONE
4100      425  ;
4100      426  ;
4100      427  DESCBUFR    dfs PAGESIZE
4200      428  ;          dfs PAGESIZE
4300      429  ;
4300      430  ;
4300      431  BUFFERS:
```

```
4300      432      ;
4300      433      ;
4300      434      IDBUFR      equ  BUFFERS
4300      435      ;
4300      436      LBABUFR      equ  BUFFERS
4300      437      ;
4300      438      RWTSBUFR      equ  BUFFERS
4300      439      ;
4300      440      DOSBUFR      equ  BUFFERS
4300      441      ;
4300      442      ;
4300      443      SLOTBUFR      equ  BUFFERS
4300      444      ;
4300      445      ;          phs  BUFFERS+PAGESIZE*2
4500      446      ROMBUFR:
4500      447      ;
4500      448      ROMSIG      dfs  SIGNUMLN
4504      449      CFSRLBUF      dfs  IDSRLLEN
4518      450      CFNAME      dfs  NAMELEN
4530      451      CFDATE      dfs  DATELEN
4536      452      CFLBANUM      dfs  LBALEN
453A      453      CFMAXDRV      dfs  1
453B      454      CFREMOVOL      dfs  1
453C      455      DFLTBOOT      dfs  1
453D      456      ;
453D      457      ;
453D      458      ;          phs  BUFFERS
4300      459      DRVBUFR:
4300      460      ;
4300      461      DRVNAME      dfs  NAMELEN
4318      462      DRVDATE      dfs  DATELEN
431E      463      DRVDESC      dfs  PAGESIZE-*&NEGONE
4400      464      ;
00E2      465      DRVDSLEN      equ  *-DRVDESC
4400      466      ;
4400      467      ;
4400      468      ;          phs  BUFFERS
4300      469      VTOCBUFR:
4300      470      ;
4300      471      VTOCSB      dfs  1
4301      472      FRSTTRK      dfs  1
4302      473      FRSTSEC      dfs  1
4303      474      DOSVRSN      dfs  1
4304      475      DOSBUILD      dfs  1
4305      476      DOSRAM      dfs  1
4306      477      DISKVOL      dfs  1
4307      478      DISKTYPE      dfs  1
4308      479      DISKNAME      dfs  24
4320      480      INITIME      dfs  6
4326      481      VTOCPHAS      dfs  1
4327      482      NUMTSENT      dfs  1
4328      483      DISKSUBJ      dfs  2
432A      484      VTOCTIME      dfs  6
4330      485      NXTTOALC      dfs  1
4331      486      ALLCDIR      dfs  1
4332      487      DOSCONFIG      dfs  1
4333      488      DISKLOCK      dfs  1
4334      489      NUMTRKS      dfs  1
4335      490      NUMSECS      dfs  1
4336      491      BYTPRSEC      dfs  2
4338      492      BITMAP:
```

```
4338          493  ;
4338          494  ;
4338          495      stt "Volume Manager Symbol Table"
4338          496  ;
4338          497  ;
4338          498      end 111
```

```
*** End of Assembly
```

Symbol List starts at 0x7800, ends at 0x9510, used 0x1D10, remaining 0x1D30

Symbols unsorted:

LOC0	0000	TEXTPTR	001E	WNDLFT	0020	WNDWDTH	0021	WNDTOP	0022
WNCBDM	0023	CH	0024	CV	0025	INVFLG	0032	PROMPT	0033
CSWL	0036	ASRUN	0076	ASONERR	00D8	VALPTR	00CC	GENPTR	00CE
SLOTPTR	00EC	ROMPTR	00EE	DATAPTR	00FA	PRNTVAL	00FB	PRNTPTR	00FC
ZERO	0000	LBALen	0004	PARTLEN	0004	TYPELEN	0004	CDMSGLEN	0005
DATELEN	0006	DFTIMAG	0006	IDFRMLEN	0008	VRNLEN	000E	LBAMASK	000F
NIBLMASK	000F	SECMASKL	000F	SECMASKH	0010	VSNLEN	0014	IDSRLLEN	0014
IDMDLLEN	0018	NAMELEN	0018	NEGONE	00FF	ERRORNDX	0004	MAINRAM	0000
HIGHRAM1	0001	HIGHRAM2	0002	RWTSREAD	0001	RWTSWRIT	0002	INITCMD	000B
VTOCSEC	0000	VTOCTRK	0011	VOLXINC	0003	VOLYINC	0030	IDCYLOFF	0002
IDHDSOFF	0006	IDSPTOFF	000C	IDSRLLOFF	0014	IDFRMOFF	002E	IDMDLOFF	0036
IDLBAOFF	0078	OFFSET0	0010	IMAGSIZE	0018	DRCATLBA	00D0	IMAG33	0001
IMAG41L	0002	IMAG41H	0003	IMAG43H	0004	IMAG45L	0005	IMAG45H	0006
IMAGUSR1	0007	IMAGUSR2	0008	WAIT100U	0004	WAIT225U	0007	WAIT001M	0011
WAIT040M	007C	WAIT100M	00C5	TEXTMODE	0000	GRPHMODE	0001	TX80MODE	0002
LV80MODE	0003	NORMDISP	0000	INVRDISP	0001	INITSCRN	0000	HOMESCRN	0001
EOLCLR	0000	EOPCLR	0001	DIRECT	0000	INDIRECT	0001	NOPAD	0000
HIGHLOW	0020	ZEROPAD	0040	SPCPAD	0080	NEXTLINE	0004	CHARCELL	0007
MAXPARTS	0009	PCMDMASK	000F	CVMASK	001F	MAXWDTH	0028	MAXTRKS	0032
MAXCH	0050	MINCV	0060	MAXCMD	0061	INVRMASK	007F	ASCIFLAG	0080
MSBMASK	0080	RTNCMD	0050	MODECMD	0051	DISPCMD	0052	SCRNCMD	0053
CLRCMD	0054	CNTRCMD	0055	BUFRCMD	0056	NIBLCMD	0057	BYT1CMD	0058
BYT2CMD	0059	BYTNCMD	005A	ADRCMD	005B	DEC1CMD	005C	DEC2CMD	005D
DEC3CMD	005E	DECNCMD	005F	FLASH	0060	CTRLD	0084	BELLCHAR	0087
LARROW	0088	DARROW	008A	UARROW	008B	RETURN	008D	CTRLQ	0091
RARROW	0095	ESCAPE	009B	SPACE	00A0	PERCENT	00A5	MINUS	00AD
PERIOD	00AE	QUESTION	00BF	LWRMASK	00DF	LWRCASE	00E0	BAR	00FC
DELETE	00FF	ATA_READ	0020	ATA_WRIT	0030	ATA_ID	00EC	OFFSET1	0100
PAGESIZE	0100	STACK	0100	VOLSIZE	0300	DRVSIZE	0300	DOSWARM	03D0
DOSCOLD	03D3	CALLFM	03D6	CALLRWTS	03D9	GETFMCB	03DC	RDCLKVSN	03E1
HOOKDOS	03EA	PRTERADR	03E8	LINE23	07D0	DOS4VRSN	0045	DOS4BLD	0006
BLDVRSN	BFF0	BLDNMBR	BFF1	MNGDISK	BFF2	INITVAL	BFFA	PAGE08	0800
PAGE09	0900	PAGEC0	C000	PAGEC8	C800	KEY	C000	CLRKEY	C010
CFHOOK	C010	CFUHOOK	C018	TXTCLR	C050	TXTSET	C051	MIXCLR	C052
LOWSCR	C054	HIRES	C057	VOLBOOT	C030	CFRWTS	C04B	RAM2WP	C080
ROM2WP	C082	CLRROM	CFFF	ATADATAH	C080	SETCSMSK	C081	CLRCSMSK	C082
ATADEVCT	C086	ATASTAT2	C086	ATADATAL	C088	ATAERROR	C089	ATASECCT	C08A
ATASECTR	C08B	ATACYLNL	C08C	ATACYLNH	C08D	ATAHEAD	C08E	ATACMD	C08F
ATASTAT	C08F	PRBL2	F94A	INIT	FB2F	VTAB	FC22	CLREOP	FC42
HOME	FC58	CLREOL	FC9C	CROUT	FD8E	PRBYTE	FDDA	PRHEX	FDE3
COUT	FDED	SETKBD	FE89	SETVID	FE93	OUTPORT	FE95	BELL	FF3A
MONITOR	FF65	GRAPHICS	0000	DISPLAY	0000	DEBUG	0000	START	0930
MAIN	0939	MAINMOD	0960	MAINTBL	0963	MAINTBLH	0968	MNGFIRM	096D
FIRMMOD	0998	FIRMERR	099E	FIRMTBL	09A7	FIRMTBLH	09AC	SAVEFIRM	09B1
LOADFIRM	09CA	LOADDOS	09FB	MNGCFFA	0A58	CFFAMOD	0A88	CFFAERR	0A8E
CFFATBL	0A97	CFFATBLH	0A9D	DSPCFMEM	0AA3	DISPID	0B04	SAVEID	0B1B
SAVELBA	0BA5	RSTORLBA	0BC4	CLRLBA	0BE3	BCS01	0C49	CHKHEX	0C8E
MNGDRVS	0CA1	DRVSMOD	0CD6	DRVSERR	0CDC	DRVSTBL	0CE5	DRVSTBLH	0CE8
DISPDRVS	0CEB	DSRPDRVS	0D33	MODDRVS	0D4A	MNGVOLS	0D5E	VOLSMOD	0D93
VOLSERR	0D99	VOLSTBL	0DA2	VOLSTBLH	0DA9	DISPVOLS	0DB0	DISPVDOS	0DC4
DISPVTOC	0DD8	DISPBMAP	0DF1	INITVOL	0E0A	BOOTVOL	0E23	MNGDOSI	0EC2
DOSIMOD	0EF7	DOSIERR	0EFD	DOSITBL	0F06	DOSITBLH	0F0A	DISPDOSI	0F0E
SELCDOSI	0F21	CHKIMAGE	0F96	FINDCF	0FCD	FINDISK	1022	CHKSLOT	1068
GETDRIVE	108A	GETVOLUM	10C5	GETYORN	10F8	YORNMOD1	110C	YORNMOD2	1113
YORNTBL	112D	YORNTBLH	112F	OPTION	1131	GETLBA	114A	GETLBA2	1168
STATOKAY	1174	DISKERR	119D	RDDRVLBA	11BA	SHOWDRVL	11FD	CLRIMBUF	1232

INITCFVL	124A	RTN3	12DC	BANNER	13D5	MAINMENU	15DC	FIRMMENU	164E
CFFAMENU	1693	DRVSMENU	16E2	VOLSMENU	1713	DOSIMENU	176C	SHOWDATA	17A7
NOCFFA	182B	NODISK	182E	QUIT	194A	GETROMER	1962	UNSETERR	197A
SETERROR	1992	READVSN	19A7	READCLK	19A9	PRTERORR	19AD	SHOWVTOC	19B0
DOSAVFRM	1C27	DOLDFRM	1CC9	DOLDLBA	1D73	DOSAVLBA	1E2F	DOCLRLBA	1EC3
SHOWDRVS	1F40	SHOWDRV	1F8A	SHOWDES	1FCC	SHOWDESC	2020	RTN04	206C
GETDRNFO	206D	GETDRVDS	2135	CLEARLBA	2195	SHOWNCAT	21A0	INITVTOC	2229
SHOWBMAP	224D	SHOWMOD	22DF	SHOWDVOL	22FD	SELCMEM	2325	SMEMMOD1	233A
SMEMMOD2	2344	SMEMMOD3	234E	SMEMADRL	236A	SMEMADRH	236D	SELCTRK	2370
TRKMOD1	2384	TRKMOD2	238C	TRKMOD3	2394	TRKMOD4	239C	TRKTBLL	23B6
TRKTBLLH	23BA	SELCSEC	23BE	SECMOD1	23D2	SECMOD2	23DA	SECTBLL	23F4
SECTBLH	23F6	SELCTYP	23F8	TYPMOD1	240C	TYPMOD2	2413	TYPTBLL	242C
TYPTBLH	242E	SELBOOT	2430	BOOTMOD1	2444	BOOTMOD2	2453	BOOTMOD3	245F
BOOTTBLL	247B	BOOTTBLH	247E	SETPTR	2481	CLRPTR	248F	PTRMOD	2491
CHKWPCF	2495	CHKFWCF	24F2	RTN01	2516	EXTRDATA	254C	EXTRAD	25E6
MODROM	2658	RTN02	26F0	SELCDISK	271F	DRVMOD1	27A3	DRVMOD2	27AA
GETVRSN	27CE	GETTEXTC	27F2	GETTEXT	27F3	SHOWYREG	2890	PADBUFR	28CA
SHOWLBA	28E2	READCF	2910	READCFG	294B	WRITCF	2966	DERROR	29F4
WRITCFG	2A28	WRITFM	2A54	SHOWCF	2A82	CFBUSY	2C95	CFREADY	2CAB
CFSTATUS	2CCA	WAIT	2CDA	CFWAIT	2CE3	CFCHECK	2CEF	LOADLBA	2CF8
LOADCMD	2D22	CFRESET	2D3C	DOATARST	2D4E	READID	2D62	READLBA2	2DB7
READLBA	2DBB	READBUFR	2DCB	WRITLBA2	2DF4	WRITLBA1	2DF8	WRITLBA	2DFC
WRITBUFR	2E08	LISTIMGS	2E38	DOLDDOS	2E5B	PUTINAME	2E9C	GETIMAGE	2EE0
SELCIMAG	2F11	PUTIERR	2FC2	SHOWDOSI	2FC8	GETDOSI	302B	SHOWIMAG	3128
READDESC	3142	CLRDESC	3179	DISPVLBA	3186	RTN1	319E	SHOWVLBA	319F
SHOWIDOS	328D	SELCNDOS	33B9	SAVECF	33F1	RSTRDATA	341B	RSTRFIRM	3453
GETHEX2	348E	GETHEX4	3491	GETHEX6	3494	GETHEX8	3497	GETDEC1	349C
GETDEC2	349F	GETDEC3	34A2	GETDEC5	34A5	NUMLOOP	34B6	NUMPROC	3510
HEXPROC	3513	DECPROC	3542	SELECT	356B	PRESKEYC	3598	PRESKEYS	359A
PRESKEYA	359B	PRESKEY2	35A1	PRESKEY	35A9	GETKEY	35BE	READKEY	35D2
PRNTCHAR	35E8	SELCKEY	35F4	GETVTOC2	360A	GETVTOC	360D	SPLITHEX	3669
ASCIHEX	3673	RTN03	367E	DVTS2LBA	367F	DOHOOKON	3714	HOKONRTN	3743
HOOKERR	3744	DOHOOKOF	3765	HOKOFRTN	378F	DOHOOK	3790	DOUHOOK	3793
GETDISKC	3796	GETDISKS	3798	HEX2DEC	379C	PRNTBUFT	37BF	PRNTBUFH	37CB
PRNTBUF	37D4	BUFRMOD	37D9	PRINTIME	37DD	PRINT	37F2	PRNTLOOP	3801
PRNTMOD1	382D	PRNTMOD2	3848	PRNTBR1	384A	PRNTBR2	3854	PRNTBR3	385A
PRNTBR4	385F	PRNTBR5	3864	PRNTBR6	386D	PRNTMOD3	3870	PRNTOUT	3876
OUTMOD1	3876	OUTMOD2	3878	PRNTOUT2	387A	OUTTBL1	387D	OUTTBL2	3883
OUT80COL	3889	VTABADRS	388B	OUTADRS	3891	PRNTSAV	3897	PRNTNUM	3898
MODEVAL	389A	FRMTVAL	389B	PRNTBL	389C	PRNTBLL	38AC	PRNTBLH	38BC
PRNTRTN	38CC	PRNTSAVY	38D7	PRNTSAVX	38D9	PRNTSAVA	38DB	PRINTRTN	38DE
PRNTMODE	38DF	PRNTDISP	392A	PRNTSCRN	3949	PRNTCLR	3959	PRNTCNTR	3963
PRNTBUFR	3985	PRNTBFR	3994	PRNTNIBL	39A1	PRNTNBYT	39A6	PRNT1BYT	39AA
PRNT2BYT	39AD	PRNTBYT	39AF	PRNTADR	39B9	PRNT1DEC	39D1	PRNT2DEC	39D7
PRNTDEC	39DA	PRNT3DEC	39E4	PRNTNDEC	39EE	PRNTBYTE	3A35	PRNTHEx	3A3E
PRNTHEx2	3A40	HEXTODEC	3A4B	GETDIGIT	3A65	PRNTGRPH	3A84	STR1.01	3A84
STR1.02	3A9F	STR1.03	3ABF	STR1.04	3ADD	STR1.05	3AFB	STR1.06	3B1C
STR1.07	3B3A	STR1.08	3B54	STR1.09	3B73	STR1.10	3B8C	STR1.11	3B9C
STR1.12	3BB6	STR1.13	3BCF	STR1.14	3BF2	STR1.15	3C12	STR1.16	3C34
STR1.17	3C4B	STR1.18	3C5C	STR1.19	3C76	STR2.01	3C90	STR2.02	3CA0
STR2.03	3CB9	STR2.04	3CC7	STR2.05	3CD6	STR3.01	3CF1	STR6.01	3D01
STR6.02	3D1C	STR6.03	3D39	MOD6.03	3D43	STR6.04	3D45	STR6.05	3D5E
STR6.06	3D78	STR6.07	3D91	MESG1	3DAE	MESG2	3DC5	MESG3	3DDA
SIGBYTES	3DEE	ORIGSIG1	3DEE	ORIGSIG2	3DF6	CFFASIG	3DFE	SIGLEN	0008
DISKSIG	3E06	RAMDSIG	3E0E	RANASIG	3E16	SIDERSIG	3E1E	NDOSTBL	3E26
NDOSIZE	0005	NDOSLEN	002D	TOPMEM	3E53	CFSIZE	3E59	CFDRIVES	3E5F
EXTRVOLS	3E65	SIGNUM	3E6B	SIGNUMLN	0004	IMAGLBA	3E6F	DRVXTBL	3E77
VOLXTBL	3E77	VOLYTBLL	3E87	DRVYTBL	3E87	VOLYTBLLH	3E97	CFBOOT	3EA7
VALBUF	3EA9	VSNBUFR	3EAC	VERSION	3EC1	TRKVLTL	3ED0	SECVLTBL	3ED4
TYPVLTL	3ED6	BOOTVTBL	3ED8	DATIMSEP	3EDB	DECTBLL	3EE1	DECTBLH	3EE6
CHARBUFR	3EEB	NAMEBUFR	3EED	CFFAMSG	3F06	DISKMSG	3F0B	DOSRAMH	3F10

DOSRAML	3F1C	UNKNOWN	3F27	VOLTYPB	3F32	VOLTYPD	3F3F	ALLDIRN	3F4C
ALLDIRP	3F58	LOCKL	3F64	LOCKU	3F6E	DOSIMAGE	3F7A	DOSINAME	3F7B
DOSIMTBL	3F7D	DOSIMAG1	3F8D	DOSIMAG2	3F91	DOSIMAG3	3F96	DOSIMAG4	3F9B
DOSIMAG5	3FA0	DOSIMAG6	3FA5	DOSIMAG7	3FAA	DOSIMAG8	3FB0	TBLTYPE	3FB6
SLOT16	3FB7	DRV	3FB8	VOL	3FB9	TNUM	3FBA	SNUM	3FBB
DCTADR	3FBC	USRBUF	3FBE	RWTSPHAS	3FC0	BYTCNT	3FC1	CMDCODE	3FC2
ERRCODE	3FC3	VOLFND	3FC4	SLOTFND	3FC5	DRVFND	3FC6	FMVALS	3FC7
OPCODE	3FC7	SUBCODE	3FC8	FN2ADR	3FC9	FMVOLUME	3FCB	FMDRIVE	3FCC
FMSLOT	3FCD	FMFTYPE	3FCE	FNADR	3FCF	RTNCODE	3FD1	FMPHASE	3FD2
WBADR	3FD3	SECVAL	3FD5	ENDTRK	3FD6	SUBJECT	3FD7	FMPLN	0012
DATABUFR	4000	SAVCH	4000	SAVCV	4001	SAVA	4002	SAVX	4003
SAVY	4004	SAVNUM	4005	SAVPTR	4006	SAVTOP	4007	SAVBTM	4008
TEMP	4009	YORN	400A	PAGE	400B	FLAG	400C	CFFAKEY	400D
NSIZE	400E	NDRV	400F	NDRVS	4010	NVOLMAX	4011	NVOL	4012
NVOLS	4013	SHOWCNT	4014	LINECNT	4015	PAGECNT	4016	SECTOR	4017
SECTOR2	4018	TRACK	4019	VOLUME	401A	DRIVE	401B	DRIVE2	401C
CFSLOT	401D	DISKSLOT	401E	DISKDRV	401F	CFSLOT16	4020	DSKSLT16	4021
CFPAGE	4022	DISKPAGE	4023	CFINDEX	4024	SAVROMER	4025	NNUMS	4027
NENTRY	4028	NUMVALS	4029	HEXVALS	4031	DECVALS	4035	ENTRLEN	000F
IDCYLNUM	4037	IDHDSNUM	4039	IDSPTNUM	403B	IDLBANUM	403D	LBA	4041
LASTLBA	4045	LASTVOL	4049	FRSTFREE	404D	LASTFREE	4051	CDMSG	4055
INSRLBUF	405A	IDSRLBUF	406E	IDFRMBUF	4083	IDMDLBUF	408C	CFOLDNAM	40A5
VOLTITLE	40BE	BOOTFILE	40D7	FMDATE	40F0	DESCBUFR	4100	BUFFERS	4300
IDBUFR	4300	LBABUFR	4300	RWTSBUFR	4300	DOSBUFR	4300	SLOTBUFR	4300
ROMBUFR	4500	ROMSIG	4500	CFSRLBUF	4504	CFNAME	4518	CFDATE	4530
CFLBANUM	4536	CFMAXDRV	453A	CFREMOVOL	453B	DFLTBOOT	453C	DRVBUFR	4300
DRVNAME	4300	DRVDATE	4318	DRVDESC	431E	DRVDSLEN	00E2	VTOCBUFR	4300
VTOCSB	4300	FRSTTRK	4301	FRSTSEC	4302	DOSVRSN	4303	DOSBUILD	4304
DOSRAM	4305	DISKVOL	4306	DISKTYPE	4307	DISKNAME	4308	INITIME	4320
VTOCPHAS	4326	NUMTSENT	4327	DISKSUBJ	4328	VTOCTIME	432A	NXTTOALC	4330
ALLCDIR	4331	DOSCONFG	4332	DISKLOCK	4333	NUMTRKS	4334	NUMSECS	4335
BYTPRSEC	4336	BITMAP	4338						

Symbols alphabetically sorted:

ADRCMD	005B	ALLCDIR	4331	ALLDIRN	3F4C	ALLDIRP	3F58	ASCIFLAG	0080
ASCIHEX	3673	ASONERR	00D8	ASRUN	0076	ATACMD	C08F	ATACYLNH	C08D
ATACYLNL	C08C	ATADATAH	C080	ATADATAL	C088	ATADEVCT	C086	ATAERROR	C089
ATAHEAD	C08E	ATASECCT	C08A	ATASECTR	C08B	ATASTAT	C08F	ATASTAT2	C086
ATA_ID	00EC	ATA_READ	0020	ATA_WRIT	0030	BANNER	13D5	BAR	00FC
BCS01	0C49	BELL	FF3A	BELLCHAR	0087	BITMAP	4338	BLDNMBR	BFF1
BLDVRSN	BFF0	BOOTFILE	40D7	BOOTMOD1	2444	BOOTMOD2	2453	BOOTMOD3	245F
BOOTTBLH	247E	BOOTTBL	247B	BOOTVOL	0E23	BOOTVTBL	3ED8	BUFFERS	4300
BUFRCMD	0056	BUFRMOD	37D9	BYT1CMD	0058	BYT2CMD	0059	BYTCNT	3FC1
BYTNCMD	005A	BYTPRSEC	4336	CALLFM	03D6	CALLRWTS	03D9	CDMSG	4055
CDMSGLEN	0005	CFBOOT	3EA7	CFBUSY	2C95	CFCHECK	2CEF	CFDATE	4530
CFDRIVES	3E5F	CFFAERR	0A8E	CFFAKEY	400D	CFFAMENU	1693	CFFAMOD	0A88
CFFAMSG	3F06	CFFASIG	3DFE	CFFATBLH	0A9D	CFFATBLL	0A97	CFHOOK	C010
CFINDEX	4024	CFLBANUM	4536	CFMAXDRV	453A	CFNAME	4518	CFOLDNAM	40A5
CFPAGE	4022	CFREADY	2CAB	CFREMOVOL	453B	CFRESET	2D3C	CFRWTS	C04B
CFSIZE	3E59	CFSLOT	401D	CFSLOT16	4020	CFSRLBUF	4504	CFSTATUS	2CCA
CFUHOOK	C018	CFWAIT	2CE3	CH	0024	CHARBUFR	3EEB	CHARCELL	0007
CHKFWCF	24F2	CHKHEX	0C8E	CHKIMAGE	0F96	CHKSLOT	1068	CHKWPCF	2495
CLEARLBA	2195	CLRCMD	0054	CLRCMSK	C082	CLRDESC	3179	CLREOL	FC9C
CLREOP	FC42	CLRIMBUF	1232	CLRKEY	C010	CLRLBA	0BE3	CLRPTR	248F
CLRROM	CFFF	CMDCODE	3FC2	CNTRCMD	0055	COUT	FD8E	CROUT	FD8E
CSWL	0036	CTRLD	0084	CTRLQ	0091	CV	0025	CVMASK	001F
DARROW	008A	DATABUFR	4000	DATAPTR	00FA	DATELEN	0006	DATIMSEP	3EDB
DCTADR	3FBC	DEBUG	0000	DEC1CMD	005C	DEC2CMD	005D	DEC3CMD	005E
DECNCMD	005F	DECPROC	3542	DECTBLH	3EE6	DECTBLL	3EE1	DECVALS	4035

DELETE	00FF	DERROR	29F4	DESCBUFR	4100	DFLTBOOT	453C	DFLTIMAG	0006
DIRECT	0000	DISKDRV	401F	DISKERR	119D	DISKLOCK	4333	DISKMSG	3F0B
DISKNAME	4308	DISKPAGE	4023	DISKSIG	3E06	DISKSLOT	401E	DISKSUBJ	4328
DISKTYPE	4307	DISKVOL	4306	DISPBMAP	0DF1	DISPCMD	0052	DISPDOSI	0F0E
DISPDRVS	0CEB	DISPID	0B04	DISPLAY	0000	DISPVDOS	0DC4	DISPVLBA	3186
DISPVOLS	0DB0	DISPVTOC	0DD8	DOATARST	2D4E	DOCLRLBA	1EC3	DOHOOK	3790
DOHOOKOF	3765	DOHOOKON	3714	DOLDDOS	2E5B	DOLDFRM	1CC9	DOLDLBA	1D73
DOS4BLD	0006	DOS4VRSN	0045	DOSAVFRM	1C27	DOSAVLBA	1E2F	DOSBUFR	4300
DOSBUILD	4304	DOSCOLD	03D3	DOSCONFIG	4332	DOSIERR	0EFD	DOSIMAG1	3F8D
DOSIMAG2	3F91	DOSIMAG3	3F96	DOSIMAG4	3F9B	DOSIMAG5	3FA0	DOSIMAG6	3FA5
DOSIMAG7	3FAA	DOSIMAG8	3FB0	DOSIMAGE	3F7A	DOSIMENU	176C	DOSIMOD	0EF7
DOSIMTBL	3F7D	DOSINAME	3F7B	DOSITBLH	0F0A	DOSITBLL	0F06	DOSRAM	4305
DOSRAMH	3F10	DOSRAML	3F1C	DOSVRSN	4303	DOSWARM	03D0	DOUHOOK	3793
DRCATLBA	00D0	DRIVE	401B	DRIVE2	401C	DRV	3FB8	DRVBUFR	4300
DRVDATE	4318	DRVDESC	431E	DRVDSLEN	00E2	DRVFND	3FC6	DRVMOD1	27A3
DRVMOD2	27AA	DRVNAME	4300	DRVSERR	0CDC	DRVSIZE	0300	DRVSMENU	16E2
DRVSMOD	0CD6	DRVSTBLH	0CE8	DRVSTBLL	0CE5	DRVXTBL	3E77	DRVYTBL	3E87
DSKSLT16	4021	DSPCFMEM	0AA3	DSRPDRVS	0D33	DVTS2LBA	367F	ENDTRK	3FD6
ENTRLEN	000F	EOLCLR	0000	EOPCLR	0001	ERRCODE	3FC3	ERRORNDX	0004
ESCAPE	009B	EXTRAD	25E6	EXTRDATA	254C	EXTRVOLS	3E65	FINDCF	0FCD
FINDISK	1022	FIRMERR	099E	FIRMMENU	164E	FIRMMOD	0998	FIRMTBLH	09AC
FIRMTBLL	09A7	FLAG	400C	FLASH	0060	FMDATE	40F0	FMDRIVE	3FCC
FMFTYPE	3FCE	FMPHASE	3FD2	FMPLN	0012	FMSLOT	3FCD	FMVALS	3FC7
FMVOLUME	3FCB	FN2ADR	3FC9	FNADR	3FCF	FRMTVAL	389B	FRSTFREE	404D
FRSTSEC	4302	FRSTTRK	4301	GENPTR	00CE	GETDEC1	349C	GETDEC2	349F
GETDEC3	34A2	GETDEC5	34A5	GETDIGIT	3A65	GETDISKC	3796	GETDISKS	3798
GETDOSI	302B	GETDRIVE	108A	GETDRNFO	206D	GETDRVDS	2135	GETFMCB	03DC
GETHEX2	348E	GETHEX4	3491	GETHEX6	3494	GETHEX8	3497	GETIMAGE	2EE0
GETKEY	35BE	GETLBA	114A	GETLBA2	1168	GETROMER	1962	GETTEXT	27F3
GETTEXTC	27F2	GETVOLUM	10C5	GETVRSN	27CE	GETVTOC	360D	GETVTOC2	360A
GETYORN	10F8	GRAPHICS	0000	GRPHMODE	0001	HEX2DEC	379C	HEXPROC	3513
HEXTODEC	3A4B	HEXVALS	4031	HIGHLOW	0020	HIGHRAM1	0001	HIGHRAM2	0002
HIRES	C057	HOKOFRTN	378F	HOKONRTN	3743	HOME	FC58	HOMESCRN	0001
HOOKDOS	03EA	HOOKERR	3744	IDBUFR	4300	IDCYLNUM	4037	IDCYLOFF	0002
IDFRMBUF	4083	IDFRMLEN	0008	IDFRMOFF	002E	IDHDSNUM	4039	IDHDSOFF	0006
IDLBANUM	403D	IDLBAOFF	0078	IDMDLBUF	408C	IDMDLLEN	0018	IDMDLOFF	0036
IDSPTNUM	403B	IDSPTOFF	000C	IDSRLBUF	406E	IDSRLLEN	0014	IDSRLLOFF	0014
IMAG33	0001	IMAG41H	0003	IMAG41L	0002	IMAG43H	0004	IMAG45H	0006
IMAG45L	0005	IMAGLBA	3E6F	IMAGSIZE	0018	IMAGUSR1	0007	IMAGUSR2	0008
INDIRECT	0001	INIT	FB2F	INITCFVL	124A	INITCMD	000B	INITIME	4320
INITSCRN	0000	INITVAL	BFFA	INITVOL	0E0A	INITVTOC	2229	INSRLBUF	405A
INVFLG	0032	INVRDISP	0001	INVRMASK	007F	KEY	C000	LARROW	0088
LASTFREE	4051	LASTLBA	4045	LASTVOL	4049	LBA	4041	LBABUFR	4300
LBALN	0004	LBAMASK	000F	LINE23	07D0	LINECNT	4015	LISTIMGS	2E38
LOADCMD	2D22	LOADDOS	09FB	LOADFIRM	09CA	LOADLBA	2CF8	LOC0	0000
LOCKL	3F64	LOCKU	3F6E	LOWSCR	C054	LV80MODE	0003	LWRCASE	00E0
LWRMASK	00DF	MAIN	0939	MAINMENU	15DC	MAINMOD	0960	MAINRAM	0000
MAINTBLH	0968	MAINTBLL	0963	MAXCH	0050	MAXCMD	0061	MAXPARTS	0009
MAXTRKS	0032	MAXWDTH	0028	MESG1	3DAE	MESG2	3DC5	MESG3	3DDA
MINCV	0060	MINUS	00AD	MIXCLR	C052	MNGCFFA	0A58	MNGDISK	BFF2
MNGDOSI	0EC2	MNGDRVS	0CA1	MNGFIRM	096D	MNGVOLS	0D5E	MOD6.03	3D43
MODDRVS	0D4A	MODECMD	0051	MODEVAL	389A	MODROM	2658	MONITOR	FF65
MSBMASK	0080	NAMEBUFR	3EED	NAMELEN	0018	NDOSIZE	0005	NDOSLEN	002D
NDOSTBL	3E26	NDRV	400F	NDRVS	4010	NEGONE	00FF	NENTRY	4028
NEXTLINE	0004	NIBLCMD	0057	NIBLMASK	000F	NNUMS	4027	NOCFFA	182B
NODISK	182E	NOPAD	0000	NORMDISP	0000	NSIZE	400E	NUMLOOP	34B6
NUMPROC	3510	NUMSECS	4335	NUMTRKS	4334	NUMTSENT	4327	NUMVALS	4029
NVOL	4012	NVOLMAX	4011	NVOLS	4013	NXTTOALC	4330	OFFSET0	0010
OFFSET1	0100	OPCODE	3FC7	OPTION	1131	ORIGSIG1	3DEE	ORIGSIG2	3DF6
OUT80COL	3889	OUTADRS	3891	OUTMOD1	3876	OUTMOD2	3878	OUTPORT	FE95
OUTTBL1	387D	OUTTBL2	3883	PADBUFR	28CA	PAGE	400B	PAGE08	0800

PAGE09	0900	PAGEC0	C000	PAGEC8	C800	PAGECNT	4016	PAGESIZE	0100
PARTLEN	0004	PCMDMASK	000F	PERCENT	00A5	PERIOD	00AE	PRBL2	F94A
PRBYTE	FDDA	PRESKEY	35A9	PRESKEY2	35A1	PRESKEYA	359B	PRESKEYC	3598
PRESKEYS	359A	PRHEX	FDE3	PRINT	37F2	PRINTIME	37DD	PRINTRTN	38DE
PRNT1BYT	39AA	PRNT1DEC	39D1	PRNT2BYT	39AD	PRNT2DEC	39D7	PRNT3DEC	39E4
PRNTADR	39B9	PRNTBFR	3994	PRNTBL	389C	PRNTBLH	38BC	PRNTBLL	38AC
PRNTBR1	384A	PRNTBR2	3854	PRNTBR3	385A	PRNTBR4	385F	PRNTBR5	3864
PRNTBR6	386D	PRNTBUF	37D4	PRNTBUFH	37CB	PRNTBUFR	3985	PRNTBUFT	37BF
PRNTBYT	39AF	PRNTBYTE	3A35	PRNTCHAR	35E8	PRNTCLR	3959	PRNTCNTR	3963
PRNTDEC	39DA	PRNTDISP	392A	PRNTGRPH	3A84	PRNTHex	3A3E	PRNTHEx2	3A40
PRNTLOOP	3801	PRNTMOD1	382D	PRNTMOD2	3848	PRNTMOD3	3870	PRNTMODE	38DF
PRNTNBYT	39A6	PRNTNDEC	39EE	PRNTNIBL	39A1	PRNTNUM	3898	PRNTOUT	3876
PRNTOUT2	387A	PRNTPTR	00FC	PRNTRTN	38CC	PRNTSAV	3897	PRNTSAVA	38DB
PRNTSAVX	38D9	PRNTSAVY	38D7	PRNTSCRN	3949	PRNTVAL	00FB	PROMPT	0033
PRTERADR	03E8	PRTERORR	19AD	PTRMOD	2491	PUTIERR	2FC2	PUTINAME	2E9C
QUESTION	00BF	QUIT	194A	RAM2WP	C080	RAMDSIG	3E0E	RANASIG	3E16
RARROW	0095	RDCLKVSN	03E1	RDDRVLBA	11BA	READBUFR	2DCB	READCF	2910
READCFG	294B	READCLK	19A9	READDESC	3142	READID	2D62	READKEY	35D2
READLBA	2DBB	READLBA2	2DB7	READVSN	19A7	RETURN	008D	ROM2WP	C082
ROMBUFR	4500	ROMPTR	00EE	ROMSIG	4500	RSTORLBA	0BC4	RSTRDATA	341B
RSTRFIRM	3453	RTN01	2516	RTN02	26F0	RTN03	367E	RTN04	206C
RTN1	319E	RTN3	12DC	RTNCMD	0050	RTNCODE	3FD1	RWTSBUFR	4300
RWTSPHAS	3FC0	RWTSREAD	0001	RWTSWRIT	0002	SAVA	4002	SAVBTM	4008
SAVCH	4000	SAVCV	4001	SAVECF	33F1	SAVEFIRM	09B1	SAVEID	0B1B
SAVELBA	0BA5	SAVNUM	4005	SAVPTR	4006	SAVROMER	4025	SAVTOP	4007
SAVX	4003	SAVY	4004	SCRNCMD	0053	SECMASKH	0010	SECMASKL	000F
SECMOD1	23D2	SECMOD2	23DA	SECTBLH	23F6	SECTBLL	23F4	SECTOR	4017
SECTOR2	4018	SECVAL	3FD5	SECVLTBL	3ED4	SELBOOT	2430	SELCDISK	271F
SELCDOSI	0F21	SELCIMAG	2F11	SELCKEY	35F4	SELCMEM	2325	SELCNDOS	33B9
SELCSEC	23BE	SELCTRK	2370	SELCTYP	23F8	SELECT	356B	SETCSMSK	C081
SETERROR	1992	SETKBD	FE89	SETPTR	2481	SETVID	FE93	SHOWBMAP	224D
SHOWCF	2A82	SHOWCNT	4014	SHOWDATA	17A7	SHOWDES	1FCC	SHOWDESC	2020
SHOWDOSI	2FC8	SHOWDRV	1F8A	SHOWDRVL	11FD	SHOWDRVS	1F40	SHOWDVOL	22FD
SHOWIDOS	328D	SHOWIMAG	3128	SHOWLBA	28E2	SHOWMOD	22DF	SHOWNCAT	21A0
SHOWVLBA	319F	SHOWVTOC	19B0	SHOWYREG	2890	SIDERSIG	3E1E	SIGBYTES	3DEE
SIGLEN	0008	SIGNUM	3E6B	SIGNUMLN	0004	SLOT16	3FB7	SLOTBUFR	4300
SLOTFND	3FC5	SLOTPTR	00EC	SMEMADRH	236D	SMEMADRL	236A	SMEMMOD1	233A
SMEMMOD2	2344	SMEMMOD3	234E	SNUM	3FBB	SPACE	00A0	SPCPAD	0080
SPLITHEX	3669	STACK	0100	START	0930	STATOKAY	1174	STR1.01	3A84
STR1.02	3A9F	STR1.03	3ABF	STR1.04	3ADD	STR1.05	3AFB	STR1.06	3B1C
STR1.07	3B3A	STR1.08	3B54	STR1.09	3B73	STR1.10	3B8C	STR1.11	3B9C
STR1.12	3BB6	STR1.13	3BCF	STR1.14	3BF2	STR1.15	3C12	STR1.16	3C34
STR1.17	3C4B	STR1.18	3C5C	STR1.19	3C76	STR2.01	3C90	STR2.02	3CA0
STR2.03	3CB9	STR2.04	3CC7	STR2.05	3CD6	STR3.01	3CF1	STR6.01	3D01
STR6.02	3D1C	STR6.03	3D39	STR6.04	3D45	STR6.05	3D5E	STR6.06	3D78
STR6.07	3D91	SUBCODE	3FC8	SUBJCT	3FD7	TBLTYPE	3FB6	TEMP	4009
TEXTMODE	0000	TEXTPTR	001E	TNUM	3FBA	TOPMEM	3E53	TRACK	4019
TRKMOD1	2384	TRKMOD2	238C	TRKMOD3	2394	TRKMOD4	239C	TRKTBLH	23BA
TRKTBLL	23B6	TRKVLTLBL	3ED0	TX80MODE	0002	TXTCLR	C050	TXTSET	C051
TYPELEN	0004	TYPMOD1	240C	TYPMOD2	2413	TYPTBLH	242E	TYPTBLL	242C
TYPVLTLBL	3ED6	UARROW	008B	UNKNOWN	3F27	UNSETERR	197A	USRBUF	3FBE
VALBUF	3EA9	VALPTR	00CC	VERSION	3EC1	VOL	3FB9	VOLBOOT	C030
VOLFND	3FC4	VOLSERR	0D99	VOLSIZE	0300	VOLSMENU	1713	VOLSMOD	0D93
VOLSTBLH	0DA9	VOLSTBLL	0DA2	VOLTITLE	40BE	VOLTYPB	3F32	VOLTYPD	3F3F
VOLUME	401A	VOLXINC	0003	VOLXTBL	3E77	VOLYINC	0030	VOLYTLBLH	3E97
VOLYTBLL	3E87	VRSNLEN	000E	VSNBUFR	3EAC	VSNLEN	0014	VTAB	FC22
VTABADRS	388B	VTOCBUFR	4300	VTOCPHAS	4326	VTOCSB	4300	VTOCSEC	0000
VTOCTIME	432A	VTOCTRK	0011	WAIT	2CDA	WAIT001M	0011	WAIT040M	007C
WAIT100M	00C5	WAIT100U	0004	WAIT225U	0007	WBADR	3FD3	WNBDM	0023
WNDLFT	0020	WNDTOP	0022	WNDWDTH	0021	WRITBUFR	2E08	WRITCF	2966
WRITCFG	2A28	WRITFM	2A54	WRITLBA	2DFC	WRITLBA1	2DF8	WRITLBA2	2DF4

YORN	400A	YORNMOD1	110C	YORNMOD2	1113	YORNTBLH	112F	YORNTBLL	112D
ZERO	0000	ZEROPAD	0040						

Symbols numerically sorted:

ZERO	0000	VTOCSEC	0000	TEXTMODE	0000	NORMDISP	0000	NOPAD	0000
MAINRAM	0000	LOC0	0000	INITSCRN	0000	GRAPHICS	0000	EOLCLR	0000
DISPLAY	0000	DIRECT	0000	DEBUG	0000	RWTSREAD	0001	INVRDISP	0001
INDIRECT	0001	IMAG33	0001	HOMESCRN	0001	HIGHRAM1	0001	GRPHMODE	0001
EOPCLR	0001	TX80MODE	0002	RWTSWRIT	0002	IMAG41L	0002	IDCYLOFF	0002
HIGHRAM2	0002	VOLXINC	0003	LV80MODE	0003	IMAG41H	0003	WAIT100U	0004
TYPELEN	0004	SIGNUMLN	0004	PARTLEN	0004	NEXTLINE	0004	LBALLEN	0004
IMAG43H	0004	ERRORNDX	0004	NDOSIZE	0005	IMAG45L	0005	CDMSGLEN	0005
IMAG45H	0006	IDHDSOFF	0006	DOS4BLD	0006	DFLTIMAG	0006	DATELEN	0006
WAIT225U	0007	IMAGUSR1	0007	CHARCELL	0007	SIGLEN	0008	IMAGUSR2	0008
IDFRMLEN	0008	MAXPARTS	0009	INITCMD	000B	IDSPTOFF	000C	VRSNLEN	000E
SECMASKL	000F	PCMDMASK	000F	NIBLMASK	000F	LBAMASK	000F	ENTRLEN	000F
SECMASKH	0010	OFFSET0	0010	WAIT001M	0011	VTOCTRK	0011	FMPLLEN	0012
VSNLEN	0014	IDSRLLOFF	0014	IDSRLLEN	0014	NAMELEN	0018	IMAGSIZE	0018
IDMDLLEN	0018	TEXTPTR	001E	CVMASK	001F	WNDLFT	0020	HIGHLOW	0020
ATA_READ	0020	WNDWDTH	0021	WNDTOP	0022	WNCBTM	0023	CH	0024
CV	0025	MAXWDTH	0028	NDOSLEN	002D	IDFRMOFF	002E	VOLYINC	0030
ATA_WRIT	0030	MAXTRKS	0032	INVFLG	0032	PROMPT	0033	IDMDLOFF	0036
CSWL	0036	ZEROPAD	0040	DOS4VRSN	0045	RTNCMD	0050	MAXCH	0050
MODECMD	0051	DISPCMD	0052	SCRNCMD	0053	CLRCMD	0054	CNTRCMD	0055
BUFRCMD	0056	NIBLCMD	0057	BYT1CMD	0058	BYT2CMD	0059	BYTNCMD	005A
ADRCMD	005B	DEC1CMD	005C	DEC2CMD	005D	DEC3CMD	005E	DECNCMD	005F
MINCV	0060	FLASH	0060	MAXCMD	0061	ASRUN	0076	IDLBAOFF	0078
WAIT040M	007C	INVRMASK	007F	SPCPAD	0080	MSBMASK	0080	ASCIFLAG	0080
CTRLD	0084	BELLCHAR	0087	LARROW	0088	DARROW	008A	UARROW	008B
RETURN	008D	CTRLQ	0091	RARROW	0095	ESCAPE	009B	SPACE	00A0
PERCENT	00A5	MINUS	00AD	PERIOD	00AE	QUESTION	00BF	WAIT100M	00C5
VALPTR	00CC	GENPTR	00CE	DRCATLBA	00D0	ASONERR	00D8	LWRMASK	00DF
LWRCASE	00E0	DRVDSLEN	00E2	SLOTPTR	00EC	ATA_ID	00EC	ROMPTR	00EE
DATAPTR	00FA	PRNTVAL	00FB	PRNTPTR	00FC	BAR	00FC	NEGONE	00FF
DELETE	00FF	STACK	0100	PAGESIZE	0100	OFFSET1	0100	VOLSIZE	0300
DRVSIZE	0300	DOSWARM	03D0	DOSCOLD	03D3	CALLFM	03D6	CALLRWTS	03D9
GETFMCB	03DC	RDCLKVSN	03E1	PRTERADR	03E8	HOOKDOS	03EA	LINE23	07D0
PAGE08	0800	PAGE09	0900	START	0930	MAIN	0939	MAINMOD	0960
MAINTBLL	0963	MAINTBLH	0968	MNGFIRM	096D	FIRMMOD	0998	FIRMERR	099E
FIRMTBLL	09A7	FIRMTBLH	09AC	SAVEFIRM	09B1	LOADFIRM	09CA	LOADDOS	09FB
MNGCFFA	0A58	CFFAMOD	0A88	CFFAERR	0A8E	CFFATBLL	0A97	CFFATBLH	0A9D
DSPCFMEM	0AA3	DISPID	0B04	SAVEID	0B1B	SAVELBA	0BA5	RSTORLBA	0BC4
CLRLBA	0BE3	BCS01	0C49	CHKHEX	0C8E	MNGDRVS	0CA1	DRVSMOD	0CD6
DRVSERR	0CDC	DRVSTBLL	0CE5	DRVSTBLH	0CE8	DISPDRVS	0CEB	DSRPDRVS	0D33
MODDRVS	0D4A	MNGVOLS	0D5E	VOLSMOD	0D93	VOLSERR	0D99	VOLSTBLL	0DA2
VOLSTBLH	0DA9	DISPVOLS	0DB0	DISPVDOS	0DC4	DISPVTOC	0DD8	DISPBMAP	0DF1
INITVOL	0E0A	BOOTVOL	0E23	MNGDOSI	0EC2	DOSIMOD	0EF7	DOSIERR	0EFD
DOSITBLL	0F06	DOSITBLH	0F0A	DISPDOSI	0F0E	SELCDOSI	0F21	CHKIMAGE	0F96
FINDCF	0FCD	FINDISK	1022	CHKSLOT	1068	GETDRIVE	108A	GETVOLUM	10C5
GETYORN	10F8	YORNMOD1	110C	YORNMOD2	1113	YORNTBLL	112D	YORNTBLH	112F
OPTION	1131	GETLBA	114A	GETLBA2	1168	STATOKAY	1174	DISKERR	119D
RDDRVLBA	11BA	SHOWDRVL	11FD	CLRIMBUF	1232	INITCFVL	124A	RTN3	12DC
BANNER	13D5	MAINMENU	15DC	FIRMMENU	164E	CFFAMENU	1693	DRVSMENU	16E2
VOLSMENU	1713	DOSIMENU	176C	SHOWDATA	17A7	NOCFFA	182B	NODISK	182E
QUIT	194A	GETROMER	1962	UNSETERR	197A	SETERROR	1992	READVSN	19A7
READCLK	19A9	PRTERORR	19AD	SHOWVTOC	19B0	DOSAVFRM	1C27	DOLDFRM	1CC9
DOLDLBA	1D73	DOSAVLBA	1E2F	DOCLRLBA	1EC3	SHOWDRVS	1F40	SHOWDRV	1F8A
SHOWDES	1FCC	SHOWDESC	2020	RTN04	206C	GETDRNFO	206D	GETDRVDS	2135
CLEARLBA	2195	SHOWNCAT	21A0	INITVTOC	2229	SHOWBMAP	224D	SHOWMOD	22DF

SHOWDVOL	22FD	SELCMEM	2325	SMEMMOD1	233A	SMEMMOD2	2344	SMEMMOD3	234E
SMEMADRL	236A	SMEMADRH	236D	SELCTRK	2370	TRKMOD1	2384	TRKMOD2	238C
TRKMOD3	2394	TRKMOD4	239C	TRKTBLL	23B6	TRKTBLLH	23BA	SELCTYP	23BE
SECMOD1	23D2	SECMOD2	23DA	SECTBLL	23F4	SECTBLH	23F6	SELCTYP	23F8
TYPMOD1	240C	TYPMOD2	2413	TYPTBLL	242C	TYPTBLH	242E	SELCTYP	2430
BOOTMOD1	2444	BOOTMOD2	2453	BOOTMOD3	245F	BOOTTBLL	247B	BOOTTBLLH	247E
SETPTR	2481	CLRPTR	248F	PTRMOD	2491	CHKWPCF	2495	CHKFWCF	24F2
RTN01	2516	EXTRDATA	254C	EXTRAD	25E6	MODROM	2658	RTN02	26F0
SELCDISK	271F	DRVMOD1	27A3	DRVMOD2	27AA	GETVRSN	27CE	GETTEXTC	27F2
GETTEXT	27F3	SHOWYREG	2890	PADBUFR	28CA	SHOWLBA	28E2	READCF	2910
READCFG	294B	WRITCF	2966	DERROR	29F4	WRITCFG	2A28	WRITFM	2A54
SHOWCF	2A82	CFBUSY	2C95	CFREADY	2CAB	CFSTATUS	2CCA	WAIT	2CDA
CFWAIT	2CE3	CFCHECK	2CEF	LOADLBA	2CF8	LOADCMD	2D22	CFRESET	2D3C
DOATARST	2D4E	READID	2D62	READLBA2	2DB7	READLBA	2DBB	READBUFR	2DCB
WRITLBA2	2DF4	WRITLBA1	2DF8	WRITLBA	2DFC	WRITBUFR	2E08	LISTIMG	2E38
DOLDDOS	2E5B	PUTINAME	2E9C	GETIMAGE	2EE0	SELCIMAG	2F11	PUTIERR	2FC2
SHOWDOSI	2FC8	GETDOSI	302B	SHOWIMAG	3128	READDESC	3142	CLRDESC	3179
DISPVLBA	3186	RTN1	319E	SHOWVLBA	319F	SHOWIDOS	328D	SELCNDOS	33B9
SAVECF	33F1	RSTRDATA	341B	RSTRFIRM	3453	GETHEX2	348E	GETHEX4	3491
GETHEX6	3494	GETHEX8	3497	GETDEC1	349C	GETDEC2	349F	GETDEC3	34A2
GETDEC5	34A5	NUMLOOP	34B6	NUMPROC	3510	HEXPROC	3513	DECPROC	3542
SELECT	356B	PRESKEYC	3598	PRESKEYS	359A	PRESKEYA	359B	PRESKEY2	35A1
PRESKEY	35A9	GETKEY	35BE	READKEY	35D2	PRNTCHAR	35E8	SELCKEY	35F4
GETVTOC2	360A	GETVTOC	360D	SPLITHEX	3669	ASCIHEX	3673	RTN03	367E
DVTS2LBA	367F	DOHOOKON	3714	HOKONRTN	3743	HOOKERR	3744	DOHOOKOF	3765
HOKOFRTN	378F	DOHOOK	3790	DOUHOOK	3793	GETDISKC	3796	GETDISKS	3798
HEX2DEC	379C	PRNTBUFT	37BF	PRNTBUFH	37CB	PRNTBUF	37D4	BUFRMOD	37D9
PRINTIME	37DD	PRINT	37F2	PRNTLOOP	3801	PRNTMOD1	382D	PRNTMOD2	3848
PRNTBR1	384A	PRNTBR2	3854	PRNTBR3	385A	PRNTBR4	385F	PRNTBR5	3864
PRNTBR6	386D	PRNTMOD3	3870	PRNTOUT	3876	OUTMOD1	3876	OUTMOD2	3878
PRNTOUT2	387A	OUTTBL1	387D	OUTTBL2	3883	OUT80COL	3889	VTABADRS	388B
OUTADRS	3891	PRNTSAV	3897	PRNTNUM	3898	MODEVAL	389A	FRMTVAL	389B
PRNTBL	389C	PRNTBLL	38AC	PRNTBLH	38BC	PRNTRTN	38CC	PRNTSAVY	38D7
PRNTSAVX	38D9	PRNTSAVA	38DB	PRINTRTN	38DE	PRNTMODE	38DF	PRNTDISP	392A
PRNTSCRN	3949	PRNTCLR	3959	PRNTCNTR	3963	PRNTBUFR	3985	PRNTBFR	3994
PRNTNIBL	39A1	PRNTNBYT	39A6	PRNT1BYT	39AA	PRNT2BYT	39AD	PRNTBYT	39AF
PRNTADR	39B9	PRNT1DEC	39D1	PRNT2DEC	39D7	PRNTDEC	39DA	PRNT3DEC	39E4
PRNTNDEC	39EE	PRNTBYTE	3A35	PRNTHX	3A3E	PRNTHX2	3A40	HEXTODEC	3A4B
GETDIGIT	3A65	STR1.01	3A84	PRNTGRPH	3A84	STR1.02	3A9F	STR1.03	3ABF
STR1.04	3ADD	STR1.05	3AFB	STR1.06	3B1C	STR1.07	3B3A	STR1.08	3B54
STR1.09	3B73	STR1.10	3B8C	STR1.11	3B9C	STR1.12	3BB6	STR1.13	3BCF
STR1.14	3BF2	STR1.15	3C12	STR1.16	3C34	STR1.17	3C4B	STR1.18	3C5C
STR1.19	3C76	STR2.01	3C90	STR2.02	3CA0	STR2.03	3CB9	STR2.04	3CC7
STR2.05	3CD6	STR3.01	3CF1	STR6.01	3D01	STR6.02	3D1C	STR6.03	3D39
MOD6.03	3D43	STR6.04	3D45	STR6.05	3D5E	STR6.06	3D78	STR6.07	3D91
MESG1	3DAE	MESG2	3DC5	MESG3	3DDA	SIGBYTES	3DEE	ORIGSIG1	3DEE
ORIGSIG2	3DF6	CFFASIG	3DFE	DISKSIG	3E06	RAMDSIG	3E0E	RANASIG	3E16
SIDERSIG	3E1E	NDOSTBL	3E26	TOPMEM	3E53	CFSIZE	3E59	CFDRIVES	3E5F
EXTRVOLS	3E65	SIGNUM	3E6B	IMAGLBA	3E6F	VOLXTBL	3E77	DRVXTBL	3E77
VOLYTBLL	3E87	DRVYTBLL	3E87	VOLYTBLLH	3E97	CFBOOT	3EA7	VALBUF	3EA9
VSNBUFR	3EAC	VERSION	3EC1	TRKVLTLB	3ED0	SECVLTBL	3ED4	TYPVLTBL	3ED6
BOOTVTBL	3ED8	DATIMSEP	3EDB	DECTBLL	3EE1	DECTBLH	3EE6	CHARBUFR	3EEB
NAMEBUFR	3EED	CFFAMSG	3F06	DISKMSG	3F0B	DOSRAMH	3F10	DOSRAML	3F1C
UNKNOWN	3F27	VOLTYPB	3F32	VOLTYPD	3F3F	ALLDIRN	3F4C	ALLDIRP	3F58
LOCKL	3F64	LOCKU	3F6E	DOSIMAGE	3F7A	DOSINAME	3F7B	DOSIMTBL	3F7D
DOSIMAG1	3F8D	DOSIMAG2	3F91	DOSIMAG3	3F96	DOSIMAG4	3F9B	DOSIMAG5	3FA0
DOSIMAG6	3FA5	DOSIMAG7	3FAA	DOSIMAG8	3FB0	TBLTYPE	3FB6	SLOT16	3FB7
DRV	3FB8	VOL	3FB9	TNUM	3FBA	SNUM	3FBB	DCTADR	3FBC
USRBUF	3FBE	RWTSPHAS	3FC0	BYTCNT	3FC1	CMDCODE	3FC2	ERRCODE	3FC3
VOLFND	3FC4	SLOTFND	3FC5	DRVFND	3FC6	OPCODE	3FC7	FMVALS	3FC7
SUBCODE	3FC8	FN2ADR	3FC9	FMVOLUME	3FCB	FMDRIVE	3FCC	FMSLOT	3FCD

FMFTYPE	3FCE	FNADR	3FCF	RTNCODE	3FD1	FMPHASE	3FD2	WBADR	3FD3
SECVAL	3FD5	ENDTRK	3FD6	SUBJCT	3FD7	SAVCH	4000	DATABUFR	4000
SAVCV	4001	SAVA	4002	SAVX	4003	SAVY	4004	SAVNUM	4005
SAVPTR	4006	SAVTOP	4007	SAVBTM	4008	TEMP	4009	YORN	400A
PAGE	400B	FLAG	400C	CFFAKEY	400D	NSIZE	400E	NDRV	400F
NDRVS	4010	NVOLMAX	4011	NVOL	4012	NVOLS	4013	SHOWCNT	4014
LINECNT	4015	PAGECNT	4016	SECTOR	4017	SECTOR2	4018	TRACK	4019
VOLUME	401A	DRIVE	401B	DRIVE2	401C	CFSLOT	401D	DISKSLOT	401E
DISKDRV	401F	CFSLOT16	4020	DSKSLT16	4021	CFPAGE	4022	DISKPAGE	4023
CFINDEX	4024	SAVRIMER	4025	NNUMS	4027	NENTRY	4028	NUMVALS	4029
HEXVALS	4031	DECVALS	4035	IDCYLNUM	4037	IDHDSNUM	4039	IDSPTNUM	403B
IDLBANUM	403D	LBA	4041	LASTLBA	4045	LASTVOL	4049	FRSTFREE	404D
LASTFREE	4051	CDMESG	4055	INSRLBUF	405A	IDSRLBUF	406E	IDFRMBUF	4083
IDMDLBUF	408C	CFOLDNAM	40A5	VOLTITLE	40BE	BOOTFILE	40D7	FMDATE	40F0
DESCBUFR	4100	VTOCSB	4300	VTOCBUFR	4300	SLOTBUFR	4300	RWTSBUFR	4300
LBABUFR	4300	IDBUFR	4300	DRVNAME	4300	DRVBUFFR	4300	DOSBUFR	4300
BUFFERS	4300	FRSTTRK	4301	FRSTSEC	4302	DOSVRSN	4303	DOSBUILD	4304
DOSRAM	4305	DISKVOL	4306	DISKTYPE	4307	DISKNAME	4308	DRVDATE	4318
DRVDESC	431E	INITIME	4320	VTOCPHAS	4326	NUMTSENT	4327	DISKSUBJ	4328
VTOCTIME	432A	NXTTOALC	4330	ALLCDIR	4331	DOSCONFIG	4332	DISKLOCK	4333
NUMTRKS	4334	NUMSECS	4335	BYTPRSEC	4336	BITMAP	4338	ROMSIG	4500
ROMBUFR	4500	CFSRLBUF	4504	CFNAME	4518	CFDATE	4530	CFLBANUM	4536
CFMAXDRV	453A	CFREMOVOL	453B	DFLTBOOT	453C	BLDVRSN	BFF0	BLDNMBR	BFF1
MNGDISK	BFF2	INITVAL	BFFA	PAGEC0	C000	KEY	C000	CLRKEY	C010
CFHOOK	C010	CFUHOOK	C018	VOLBOOT	C030	CFRWTS	C04B	TXTCLR	C050
TXTSET	C051	MIXCLR	C052	LOWSCR	C054	HIRES	C057	RAM2WP	C080
ATADATAH	C080	SETCSMSK	C081	ROM2WP	C082	CLRCMSK	C082	ATASTAT2	C086
ATADEVCT	C086	ATADATAL	C088	ATAERROR	C089	ATASECCT	C08A	ATASECTR	C08B
ATACYLNL	C08C	ATACYLNH	C08D	ATAHEAD	C08E	ATASTAT	C08F	ATACMD	C08F
PAGEC8	C800	CLRROM	CFFF	PRBL2	F94A	INIT	FB2F	VTAB	FC22
CLREOP	FC42	HOME	FC58	CLREOL	FC9C	CROUT	FD8E	PRBYTE	FDDA
PRHEX	FDE3	COUT	FDED	SETKBD	FE89	SETVID	FE93	OUTPORT	FE95
BELL	FF3A	MONITOR	FF65						