```
FLOPPY DISK FORMATTER
      This program format floppy disk with
        10 sector with 256 byte/sector
           in single or double side
Floppy Disk Formatter For NE CP/M 2.2
 title
           Copyright 1984 by Studio Lg, Genova-Last rev.19/08/84 14:17
 subttl
; Programmer: Martino Stefano
Modified by Gallerani Paolo
: Last Revision 19/08/1984 14:17
      8500
      .z80
                 ; this program is written in z80 mnemonics
true
      equ
false
     equ
            false
copyrig equ
            52
      page
```

00003

0001

0000

0000

```
Include ROMENTRY.LIB
                          C
                          = X
                                       Rom routines address
                   C
                          F000
                   C
                                       0F000h
                                                     ; (--- rom starting address
                          rom
                                 equ
F003
                          cin
                                20U
                                       rom+3
                                                     ; console input
F006
                          cout
                                equ
                                       rom+6
                                                     ; console output
F009
                   C
                          csts
                                       rom+9
                                                     ; console status
                                eou
FOOC
                   C
                                                     ; printer output
                          lout
                                       rom+12
                                equ
FOOF
                   C
                          lsts
                                       rom+15
                                equ
                                                     : printer status
F012
                          fdios equ
                                       rom+18
                                                     ; fdd I/O 128 byte
F015
                   C
                          fdiod equ
                                       rom+21
                                                     ; fdd I/O 256 byte
F018
                         wdini equ
                                       rom+24
                                                     ; wdd initialization
F01B
                         Wdio
                                       rom+27
                                                   ; wdd I/O 256 byte
F01E
                   C
                         strout equ
                                       rom+30
                                                     ; print string .DE until $
F01E
                   C
                         print equ
                                       strout
                                                     ; sinonime
F021
                   C
                         bootrom equ
                                       rom+33
                                                : load BIOS and go to wboote
F024
                   C
                                       rom+36
                         printat equ
                                                     ; print str. -> DE at -> HL cursor
F027
                         moveurs equ
                                       rom+39
                                                     : move cursor at -> HL
FO2A
                   C
                                       rom+42
                         vidinit equ
                                                     ; initialize video
F02D
                                       rom+45
                          CompFlg equ
                                                     : Version Number
                   0
                   C
                                 Include ASCII.LIB
                   C
                   C
                          ***************
                          : *
                   0
                          # H
                                       ASCII EQUIVALENTS
                   C
                          C
                   C
0007
                                       7 67 - 7 87
                          bell
                                 20 U
                                                     ; ring beeper
0008
                   C
                          backsp equ
                                       7 117 -7 107
                                                     ; back space char.
0009
                   C
                          tab
                                       11,-16,
                                 equ
                                                     : tabulation char.
000A
                   C
                          1f
                                       3 ] 7 - 2 12 3
                                                     : line-feed char.
                                 equ
0000
                   C
                                       7 1 7 -7 87
                          ffeed equ
                                                     ; form feed char.
000D
                   C
                                       7月1-7日2
                                 ecu
                                                     ; carriage-return char.
0013
                   C
                                       151-101
                          Dfx
                                                     : attributes ofx
                                 equ
0048
                   C
                                       7 H7
                          rever
                                equ
                                                     : Reverse On (^SH)
0043
                   C
                          flash
                                equ
                                       2 C3
                                                     : Flash On
                                                                   (ASC)
0040
                   C
                                       2 @2
                          norm
                                 equ.
                                                     : Normal
                                                                   (^S@)
                                       7 7
0020
                   C
                          space
                                                     ; space char.
                                equ
                   C
0024
                                       7 $ 7
                          endmsq equ
                                                     ; end of print message
                                 page
```

PAGE

00D0

00D1

00D2

00D6

00D7

00D0

0002

0000

0052

00F4

0001

0002

0040

0080

0018

001F

```
FD 1771 I/O port
OdOh : fdd status port
fddsts equ
                                                                                               ; fdd track port
fddtrk equ Od1h
fddsec equ Od2h
                                                                                               ; fdd sector port
                                                                                                ; fdd lach port
fddlch egu Od6h
                                                                                                   ; fdd data port
                                                 0d7h
fdddat egu
                                        fddsts
                                                                                                   ; fdd command port
fddcmd egu
 : *
                                                  FD 1771 Command Summary
 2 ×
 this command are without verify because disk don't are formatted:
                                                   00000010b
                                                                                                      : fdd restore command code
 fddrest eau
                                                                                                  : fdd reset int. command code
 fddrst equ
                                         11010000b
                                                                                                   ; fdd step in command code
 fddsin equ
                                                   01010010b
                                                                                                     ; fdd write track command code
 fddwtrk eau
                                                  11110100b
  = *
                                                   FD 1771 Flag Mask
 F 및
  = \frac{1}{2} \frac{
                                                   001h
                                                                                                    ; busy flag is bit 0
 fdbusy equ
                                                    002h
                                                                                                    ; drq flag is bit 1
 fddrq equ
 fdwprt equ
                                                   040h
                                                                                                     ; write protect flag is bit 6 .
 fdnrdy equ
                                                                                                   not ready flag is bit 7
                                                   080h
                                                                                                   ; mask error for type I commands
                                                   018h
 fdtier equ
 fdt23er equ
                                                    01fh
                                                                                                    ; mask error for type II and type III commands
                           page
```

```
Message cursor position
                        0E19
                       ermsgadd egu
                                    0e19h
                                                ; error msg position (X=25 Y=14)
0A24
                       msqladd equ
                                    0a24h
                                                 ; form/ver msq position (X=36 Y=10)
0C21
                       msq2add equ
                                    0c21h
                                                 ; sid/trk msg position (X=33 Y=12)
0C26
                       snumadd equ
                                    0c26h
                                                ; sid num. position (X=38 Y=12)
0C30
                                    0c30h
                       tnumadd equ
                                                ; trk num. position (X=48 Y=12)
                        <del>- ****************************</del>
                       : *
                                       FDDFDRM
                        2 景
                       n 5/2
                                    ************
0000
                              Aseg
                                    100h
                              Org
0100
      31 0126
                                    sp, stack
                                                ; set stack pointer
0103
      C3 054B
                                    fodform
                                                ; go to floppy format
                        Ram data areas
                        if
                                    copyria
                              defb
                                    COPYRIGHT (c) 1983 by STUDIO Lg, Genova, ITALY
                              endif
0105
                              defs
                                    32
                                                 ; stack data areas
0126
                              eau
                       stack
0126
                       dsksid:
0126
                              defs
                                                 ; byte to output lach
0127
                       fsideflag:
0127
                              defs
                                                 ; format side flagh
0128
                       vsideflag:
0128
                              defs
                                                 ; verify side flag
0129
                       xlt:
0129
      05 09 03 07
                                    5, 9, 3, 7, 2, 6, 10, 4, 8, 0
                              defb
      02 06 0A 04
012D
0131
      08 00
0133
                       verflag:
0133
                              defs
                                                 ; verify flag (Y or N)
0134
                       verbuff:
0134
                              defs
                                    256
                                                 ; verify buffer (256 byte)
```

```
Error
                                                     Messages
                           023A
                           setnew:
023A
       OD OA 53 65
                                   defb
                                          cr, lf, 'Set new system diskette in drive A,
023E
       74 20 6E 65
0242
       77 20 73 79
0246
       73 74 65 6D
024A
       20 64 69 73
024E
       6B 65 74 74
0252
       65 20 69 6E
0256
       20 64 72 69
025A
       76 65 20 41
025E
       20
025F
       OD OA 74 68
                                   defb
                                          cr, lf, 'then push any key.', cr, lf, endmsg
0263
       65 6E 20 70
0267
       75 73 68 20
026B
       61 6E 79 20
025F
       6B 65 79 2E
0273
       OD OA 24
0275
                           oflmsg:
0276
       OD OA 44 69
                                          cr, lf, 'Disk offline', endmsg
                                   defb
027A
       73 6B 20 6F
027E
       66 66 6C 69
0282
       6E 65 24
0285
                           fmtermsg:
0285
       OD OA 45 6F
                                          cr, If, 'Format error', endmsg
                                   defb
0289
       72 6D 61 74
028D
       20 65 72 72
0291
       6F 72 24
0294
                           rdermsg:
0294
       56 65 72 69
                                   defb
                                          'Verify read error', endmsq
0298
       66 79 20 72
029C
       65 61 64 20
02A0
       65 72 72 6F
0284
       72 24
02A6
                           verrmsg:
02A6
       56 65 72 69
                                          'Verify data error', endmsg
                                   defb
       66 79 20 64
02AA
02AE
       61 74 61 20
02B2
       65 72 72 6F
0286
       72 24
02B8
                           wterr:
02B8
       20 2D 20 48
                                   defb
                                          ' - Hit any key ', endmsg
02BC
       69 74 20 61
02C0
       6E 79 20 6B
0204
       65 79 20 24
                                   page
```

0208 inimsq: ffeed, cr. 1f, 19, 48h, 'Floppy Disk formatter vers 4.0', 19, 40h, cr, 1f, cr, 1f, endmsg 02C8 OC OD OA 13 02CC 48 20 20 20 02D0 46 6C 6F 70 0204 70 79 20 44 02D8 69 73 6B 20 66 6F 72 6D 02DC 02E0 61 74 74 65 02E4 72 20 76 65 02E8 72 73 20 34 02EC 2E 30 13 40 02F0 OD OA OD OA 02F4 24 02F5 questi: 'Single or Double Side (S/D or ^C to exit) ? ',endmsg 02F5 53 69 6E 67 02F9 6C 65 20 6F 02FD 72 20 44 6F 0301 75 62 6C 65 0305 20 53 69 64 0309 65 20 28 53 030D 2F 44 20 6F 0311 72 20 5E 43 20 74 6F 20 0315 0319 65 78 69 74 031D 29 20 3F 20 0321 24 0322 quest2: 0322 cr, lf, 'Type disk to be format (A/B) ', endmsg defb OD OA 54 79 0326 70 65 20 64 032A 69 73 6B 20 032E 74 6F 20 62 0332 65 20 66 6F 0336 72 6D 61 74 033A 20 28 41 2F 033E 42 29 20 24 0342 ouest3: cr, lf, bell, 'Are you sure for disk ', 19, 48h 0342 OD OA 07 41 0346 72 65 20 79 6F 75 20 73 034A 034E 75 72 65 20 66 6F 72 20 0352 0356 64 69 73 6B 035A 20 13 48 0351) disknum: 035D 00 defb 19,40h,' (Y for Yes, any key for no) ? ',endmsg 13 40 20 28 035E defb 0362 59 20 66 6F 0366 72 20 59 65 73 2C 20 61 036A 036E 6E 79 20 6B 65 79 20 66 0372 0376 6F 72 20 6E

```
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          6F 29 20 3F
 037A
 037E
          20 24
  0380
                                                cr, lf, 'Do you want disk verify (Y/N) ? ', endmsg
  0380
                                  defb
          OD OA 44 6F
  0384
          20 79 6F 75
  0388
          20 77 61 6E
         74 20 64 69
  038C
  0390
          73 6B 20 76
  0394
          65 72 69 66
  0398
          79 20 28 59
  039C
          2F 4E 29 20
  03A0
          3F 20 24
                                 fvisual:
  03A3
                                                 bell, 19, 48h, 'FORMATTING', 19, 40h, endmsg
  03A3
                                     defb
          07 13 48 45
  03A7
          4F 52 4D 41
  03AB
          54 54 49 4E
  03AF
          47 13 40 24
  03B3
                                 vvisual:
  0383
                                                 bell, 19, 48h, 'VERIFYING', 19, 48h, endmsg
          07 13 48 56
                                         defb
  03B7
          45 52 49 46
  03BB
          59 49 4E 47
  03BF
          20 13 48 24
                                 vsidtrk:
  03C3
                                                         TRACK', endmsg
  03C3
                                         defb
                                                  'SIDE
          53 49 44 45
  03C7
          20 20 20 20
  03CB
          54 52 41 43
  03CF
          4B 24
  03D1
                                 nomsg:
                                                  19, 48h, 'NO', 19, 40h, endmsg
          13 48 4E 4F
                                         defb
  03D1
  03D5
          13 40 24
  0308
                                 yesmsg:
                                                  19, 48h, 'YES', 19, 40h, endmsg
                                         defb
  03D8
          13 48 59 45
  03DC
          53 13 40 24
  03E0
                                 sngmsg:
                                                  19, 48h, 'SINGLE', 19, 40h, endmsg
          13 48 53 49
                                         defb
  03E0
  03E4
          4E 47 4C 45
  03E8
          13 40 24
  03EB
                                 dblmsg:
                                                  19, 48h, 'DOUBLE', 19, 40h, endmsg
  03EB
           13 48 44 4F
           55 42 4C 45
  03EF
  03F3
           13 40 24
                                          page
```

Floppy Disk Formatter For NE CP/M 2.2 MACRO-80 3.36 17-Mar-80

```
Formatting Table
                            03F6
                            fddtab:
03F6
                            preamble:
                                           40
                                                           ; track preamble (40 byte 'ff')
                                    rept
                                    defb
                                           255
                                    endm
03F6
       FF
                                    defb
                                            255
03F7
       FF
                                            255
                                    defb
03F8
       FF
                                            255
                                    defb
03F9
                                    defb
                                            255
03FA
       FF
                                    defb
                                            255
                                           255
03FB
       FF
                                    defb
03FC
       FF
                                           255
                                    defb
03FD
       FF
                                           255
                                    defb
03FE
                                           255
       FF
                                    defb
03FF
       FF
                                    defb
                                            255
0400
                                            255
                                    defb
0401
                                            255
                                    defb
0402
                                            255
                                    defb
0403
       FF
                                    defb
                                            255
0404
       FF
                                           255
                                    defb
                                           255
0405
       FF
                                    defb
0406
       FF
                                            255
                                    defb
0407
                                    defb
                                            255
0408
       FF
                                            255
                                    defb
0409
       FF
                                            255
                                    defb
040A
                                    defb
                                            255
040B
       FF
                                            255
                                    defb
040C
       FF
                                            255
                                    defb
040D
       FF
                                            255
                                    defb
       FF
040E
                                            255
                                    defb
040F
                                            255
       FF
                                    defb
0410
       FF
                                    defb
                                            255
0411
                                            255
                                    defb
0412
                                            255
       FF
                                    defb
0413
       FF
                                    defb
                                            255
0414
       FF
                                            255
                                    defb
0415
       FF
                                            255
                                    defb
0416
                                            255
       FF
                                    defb
0417
       FF
                                            255
                                    defb
0418
                                            255
                                    defb
0419
                                            255
       FF
                                    defb
041A
       FF
                                            255
                                    defb
       FF
041B
                                            255
                                    defb
041C
       FF
                                            255
                                    defb
04iD
                                    defb
                                            255
041E
                            idfield:
                                           6
                                                           ; GAP III (6 bytes '00')
                                    rept
                                    defb
                                           0
                                    endm
```

				CP/M 2.2 Genova-Las			17-Mar-80	PAGE 1-9
		by branzo	-31	PETTO TO LOW			4-7-41	
041E	00		+		defb	0	* 5	
041F	00		+		defb	0	* 7	
0420	00		+		defb	0	= = = = = = = = = = = = = = = = = = = =	
0421	00		+		defb	0		
0422	00		+		defb	0		
0423	00		+		defb	0	7	
				7				
0424	FE			*	defb	0feh	5	ID Address Mark
0425				trknum:				
0425					defs	1		track number (1 byte)
0426				sidnum:			3	The state of the s
0426	00			22 MITAIN	defb	0		side number (0 or 1)
0427	VV				0010	V	7	Side (diliber to of 17
				secrum:	2-5-	4		seekee modes 14 boks
0427					defs	1	7	sector number (1 byte)
				2	1011122	-		
0428	01				defb	1	7	sector lenght (256 byte)
0429	F7				defb	0f7h	: : 2	2 CRC's written
				e 7				
					rept	11	n	GAP II (11 bytes 'ff')
					defb	255	,	
					endm		2	
042A	FF		+		defb	255		
042B	FF		+		defb	255		
042C	FF		+		defb	255	7	
042D	FF		+		defb	255	7	
042D	FF						7	
			+		defb	255	1	
042F	FF.		+		defb	255	2	
0430	FF		+		defb	255	7	
0431	FF		+		defb	255	2	
0432	FF		+		defb	255	5	
0433	FF		+		defb	255	7	
0434	FF		÷		defb	255		
				5				
					rept	6	y 3	GAP II (6 bytes '00)
					defb	0	H 7	
					endm			
0435	00		+		defb	0		
0436	00		÷		defb	0	2	
0437	00		+		defb	0	7 8	
0438	00		+		defb	0	7	
0439	00		+		defb	0	2:	
043A	00		+		defb	0	7	
VASH	UU		T		pero	U	3	
0.475	er.			2	1 71	A-71.1		n . n
0439	FB				defb	Ofbh	7	Data Address Mark
				7		0000000		
					rept	255	7	User Data (256 bytes 'e5')
					defb	0e5h	9 2	
					endm			
043C	E5		+		defb	0e5h	E 7	
043D	E5		$\dot{+}$		defb	0e5h		
043E	E5		+		defb	0e5h		
043F	E5		+		defb	0e5h		
0440	E5		+		defb	0e5h	2	
0441	E5		+		defb	0e5h	2	
0442	E5		+		defb	0e5h	,	
0443	E5		+		defb	0e5h	3	
0444	E5		+		defb	0e5h	2	
Artist	hetel		18		nein	VEUII	7	

			rmatter For NE					
1	Copyright	1984	by Studio Lg,	Genova-Last	rev. 19/	08/84	14:17	
	7445	FF			J_EL	0EL		
	0445	E5	+			0e5h	- 0	
	0446	E5	+			0e5h	1	
		E5	+			0e5h	3	
	0448	E5	+			0e5h	× 2	
	0449	E5	+	d	lefb	0e5h	2 3	
	044A	E5	+	C	lefb	0e5h		
	044B	E5	+	d	lefb	0e5h		
	044C	E5	+		lefb	0e5h		
	044D	E5	+			0e5h		
	044E	E5	+			0e5h	2 #	
	044F	E5	+			0e5h	2	
	0450	E5	+			0e5h	2	
	0450	E5	+			0e5h		
	0451	E5	+				2	
						0e5h	- 1	
	0453	E5	+			0e5h	7	
	0454	E5	+			0e5h	# 7	
	0455	E5	+			0e5h	3	
	0456	E5	+	Ċ	iefb	0e5h	2 2	
	0457	E5	+	0	lefb	0e5h	7	
	0458	E5	+	0	iefb	0e5h	* 7	
	0459	E5	+	0	lefb	0e5h		
	045A	E5	÷	0	iefb	0e5h		
	045B	E5	+			0e5h	,	
	045C	E5	+			0e5h	7	
	045D	E5	+			0e5h	7	
	045E	E5	+			0e5h	2	
	045F	E5	+			0e5h	3	
	0450		+				2	
		E5				0e5h	3	
	0461	E5	+			0e5h	7	
	0462	E5	+			0e5h	2	
	0463	E5	+			0e5h	= 2	
	0464	E5	+			0e5h	* 7	
	0465	E5	+	ū	lefb	0e5h	# 7	
	0466	E5	+	d	lefb	0e5h	2	
	0467	E5	+	d	lefb	0e5h		
	0468	E5	+	C	lefb	0e5h	11 75	
	0469	E5	+	d	lefb	0e5h		
	046A	E5	+			0e5h		
	046B	E5	+			0e5h	7	
	046C	E5	+			0e5h	2	
	046D	E5	+			0e5h	2	
	046E	E5	+			0e5h	7	
	045E	E5	+			0e5h	5	
	0470	E5	+				2	
						0e5h	2	
	0471	E5	+			0e5h	7	
	0472	E5	+			0e5h	2	
	0473	E5	÷			0e5h	2	
	0474	E5	+			0e5h	n 2	
	0475	E5	+			0e5h	* 2	
	0476	E5	+		lefb	0e5h	1 1	
	0477	E5	+			0e5h		
	0478	E5	+			0e5h	3	
	0479	E5	+			0e5h		
	047A	E5	+			0e5h	2	
	047B	E5	+			0e5h	1	
	047E	E5	+				3	
						Oe5h	2	
	047D	E5	÷			0e5h		
	047E	E5	+	0	lefb	0e5h	7	

		sk Formatter For					80
Co	pyright	1984 by Studio	Lg, Genova-Las	t rev.19	/08/84	14:17	
	047F	E5	+	defb	0e5h		E
	0480	E5	+	defb	0e5h		7
	0481	E5	+	defb	0e5h		2
	0482	E5 -	+	defb	0e5h		3
	0483	E5	+	defb	0e5h		2
	0484	ES	+	defb	0e5h		7
	0485	E5	÷	defb	0e5h		7
	0485	E5	+	defb	0e5h		1
							1
	0487	E5	+	defb	0e5h		2
	0488	E5	+	defb	0e5h		7
	0489	E5	+	defb	0e5h		7
	048A	E5	+	defb	0e5h		7
	048B	E5	+	defb	0e5h		2
	048C	E5	+	defb	0e5h		2
	048D	E5	÷	defb	0e5h		2
	048E	E5	+	defb	0e5h		1
	048F	E5	+	defb	0e5h		3
1	0490	E5	+	defb	0e5h		
1	0491	E5	+	defb	0e5h		
1	0492	E5	+	defb	0e5h		
	0493	E5	+	defb	0e5h		
	0494	E5	+	defb	0e5h		8
	0495	E5	+	defb	0e5h		2
	0496	E5	÷	defb	0e5h		7 =
	0497	E5	+	defb	0e5h		2
	0498	E5	÷	defb	0e5h		3
	0499	E5	+				7
				defb	0e5h		7
	049A	E5	+	defb	0e5h		7
	049B	E5	+	defb	0e5h		7
	049C	E5	+	defb	0e5h		7
	049D	E5	+	defb	0e5h		7
	049E	E5	+	defb	0e5h		7
	049F	E5	+	defb	0e5h		7
į	0480	E5	+	defb	0e5h		7
	04A1	E5	+	defb	0e5h		7
-	04A2	E5	+	defb	0e5h		* 3
	04A3	E5	+	defb	0e5h		z
	0484	E5	+	defb	0e5h		
	04A5	E5	+	defb	0e5h		11
	0486	E5	+	defb	0e5h		2.00
	04A7	E5	+	defb	0e5h		1
	04A8	E5	+	defb	0e5h		7
	04A9	E5	+	defb	0e5h		2
	04AA	E5	+	defb	0e5h		7
	04AB	E5	+	defb	0e5h		7
							7
	04AC	E5	+	defb	0e5h		14
	04AD	E5	+	defb	0e5h		2
	04AE	E5	+	defb	0e5h		3
	04AF	E5	+	defb	0e5h		7
	04B0	E5	+	defb	0e5h		7
	04B1	E5	+	defb	0e5h		3
	04B2	E5	+	defb	0e5h		2
	04B3	E5	+	defb	0e5h		= 7
	0484	E5	+	defb	0e5h		
	04B5	E5	+	defb	0e5h		2 2
	04B6	E5	+	defb	0e5h		10
	04B7	E5	+	defb	0e5h		2
				defb	0e5h		7
	04B8	E5	+	25 25 51 25	E Plantage Col.		

				/M 2.2 MACRO-0 nova-Last rev.19			w
hhiridu	F 1304	uy acuuru	Ly, ber	NVa Labe Pev. 1:	77 VO7 04	14:11	
0489	E5		+	defb	0e5h		
04BA	E5		+	defb	0e5h		1
04BB	E5		÷	defb	0e5h		
04BC	E5 -		+	defb	0e5h		
04BD	E5		÷	defb	0e5h		
04BE	E5		+	defb	0e5h		
04BF	E5		+	defb	0e5h		
04C0	E5		*	defb	0e5h		
04C1	E5		÷	defb	0e5h		
04C2	E5		+	defb	0e5h		
04C3	E5		+	defb	0e5h		
			+				
0404	E5			defb	0e5h		
04C5	E5		+	defb	0e5h		
04C5	E5		+	defb	0e5h		
04C7	E5		+	defb	0e5h		3
04C8	E5		+	defb	0e5h		
0409	E5		+	defb	0e5h		
04CA	E5		+	defb	0e5h		
04CB	E5		÷		0e5h		
				defb			
04CC	E5		+	defb	0e5h		
04CD	E5		÷	defb	0e5h		
04CE	E5		+	defb	0e5h		
04CF	E5		+	defb	0e5h		
04D0	E5		+	defb	0e5h		
04D1	E5		+	defb	0e5h		
04D2	E5		+	defb	0e5h		
04D3	E5		+	defb	0e5h		
04D4	E5		+	defb	0e5h		
0405	E5		÷	defb	0e5h		
04D6	E5		+	defb	0e5h		
0407	E5		+	defb	0e5h		
04D8	E5		+	defb	0e5h		
04D9	E5		+	defb	0e5h		
04DA	E5		+	defb	0e5h		
04DB	E5		+	defb	0e5h		
			+				
04DC	E5			defb	0e5h		
04DD	E5		+	defb	0e5h		
04DE	E5		+	defb	0e5h		
04DF	E5		+	defb	0e5h		
04E0	E5		+	defb	0e5h		
04E1	E5		+	defb	0e5h		
04E2	E5		+	defb	0e5h		
	E5		÷				
04E3				defb	0e5h		
04E4	E5		+	defb	0e5h		
04E5	E5		+	defb	0e5h		
04E6	E5		+	defb	0e5h		
04E7	E5		+	defb	0e5h		
04E8	E5		+	defb	0e5h		
04E9	E5		+	defb	0e5h		
04EA	E5		+	defb	0e5h		
04EB	E5		+	defb	0e5h		
04EC	E5		+	defb	0e5h		
04ED	E5		+	defb	0e5h		
04EE	E5		+	defb	0e5h		
04EF	E5		+	defb	0e5h		
04F0	E5		÷	defb	0e5h		
04F1	E5		+	defb	0e5h		
	E5		+	defb			
04F2			T	CETO	0e5h		

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opyrigi	nt 1984 b	y Studio Lg, Geno	va-Last rev.1	3/08/84	14:17
04F3	E5	+	defb	0e5h	, , , , , , , , , , , , , , , , , , ,
04F4	E5	+	defb	0e5h	
04F5	E5	+	defb	0e5h	
04F6	E5 -	+	defb	0e5h	* 7
04F7	E5	+	defb	0e5h	u 2
04F8	E5	+	defb	0e5h	9 7
04F9	E5	+	defb	0e5h	7
04FA	E5	+	defb	0e5h	
04FB	E5	+	defb	0e5h	
04FC	E5	+	defb	0e5h	
04FD	E5	+	defb	0e5h	n n n
04FE	E5	+	defb	0e5h	
04FF	E5	+	defb	0e5h	, , , , , , , , , , , , , , , , , , ,
0500	E5	+	defb	0e5h	7
0501	E5	- I	defb	0e5h	* 7
0502	E5	+	defb	0e5h	# T
0503	E5	+	defb	0e5h	
0504	E5	+	defb	0e5h	E 2
0505	E5	+	defb	0e5h	
0506	E5	+	defb	0e5h	
0507	E5	+	defb	0e5h	# 2
0508	E5	+	defb	0e5h	= 7
0509	E5	+	defb	0e5h	
050A	E5	+	defb	0e5h	
050B	E5	+	defb	0e5h	
050C	E5	+	defb	0e5h	= 2
050D	E5	+	defb	0e5h	7 2
050E	E5	+	defb	0e5h	
050F	E5	+	defb	0e5h	
0510	E5	+	defb	0e5h	9 7
0511	E5	+	defb	0e5h	2
0512	E5	+	defb	0e5h	8 7
0513	E5	+	defb	0e5h	10.
0514	E5	+	defb	0e5h	# 2
0515	E5	+	defb	0e5h	9 2
0516	E5	÷	defb	0e5h	* 7
0517	E5	+	defb	0e5h	2 2
0518	E5	+	defb	0e5h	# 7
0519	E5	+	defb	0e5h	2 2
051A	E5	+	defb	0e5h	n 7
051B	E5	+	defb	0e5h	2
051C	E5	+	defb	0e5h	# 2
051D	E5	+	defb	0e5h	# 2
051E	E5	+	defb	0e5h	# 2
051F	E5	+	defb	0e5h	2
0520	E5	+	defb	0e5h	* 2
0521	E5	+	defb	0e5h	# 7
0522	E5	+	defb	0e5h	n 7
0523	E5	÷	defb	0e5h	# 5
0524	E5	+	defb	0e5h	* 5
0525	E5	. +	defb	0e5h	
0526	E5	+	defb	0e5h	n 2
0527	E5	+	defb	0e5h	
0528	E5	+	defb	0e5h	- 5
0529	E5	+	defb	0e5h	
052A	E5	+	defb	0e5h	- E
052B	E5	+	defb	0e5h	

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Floppy D	isk For	matter For NE C	P/M 2.2	MACRO-	80 3.36	17-Na	r-80	PAGE 1-14
		by Studio Lg, G						
052D	E5	+		defb	0e5h			
052E	E5	+		defb	0e5h		3.	
052F	E5	+		defb	0e5h		2.	
0530	E5 -	+		defb	0e5h		3	
0531	E5	+		defb	0e5h		2	
0532	E5	+		defb	0e5h		2	
0533	E5	+		defb	0e5h		7.	
0534	E5	+		defb	0e5h		2	
0535	E5	+		defb	0e5h		20	
0536	E5	+		defb	0e5h		2.	
0537	E5	+		defb	0e5h		1	
0538	E5	+		defb	0e5h		2	
0539	E5	+		defb	0e5h		2	
053A	E5	+		defb	0e5h		7	
053B	E5	+		defb	0e5h		2	
V 44 44 44	0.000		3				2:	
053C	F7		2	defb	0f7h			2 CRC's written
			2				7	
			3	rest	14		*	GAP IV (14 bytes 'ff')
				defb	255		* * 2	TO SEE SEE SEE SEE SEE
				endm			2.	
0531)	FF	. +		defb	255		0	
053E	FF	+		defb	255		ž.	
053F	FF	+		defb	255			
0540	FF	+		defb	255		= =	
0541	FF	+		defb	255			
0542	FF	+		defb	255		5	
0543	FF	+		defb	255		E .	
0544	FF	+		defb	255		* 7	
0545	FF	+		defb	255			
0546	FF	+		defb	255		# 7	
0547	FF	+		defb	255		#. 2	
0548	FF	+		defb	255		2.3	
0549	FF	+		defb	255		7	
054A	FF	+		defb	255		± 3	
			-					
				page				

```
: *
                                               FDDFORM entry point
                             : <del>K</del>
                              054B
                             fddform:
054B
       11 0208
                                     ld
                                             de, inimsq
                                                             ; DE = initial message
054E
       CD FOIE
                                     call
                                             print
                                                             ; print it
0551
       11 02F5
                                     ld
                                             de, quest1
                                                             ; single or double side ?
0554
       CD FOIE
                                     call
                                             print
0557
                             fddf00:
0557
       CD F003
                                     call
                                             cin
                                                             : wait one char
055A
       FE 03
                                             3
                                     CD .
                                                             ; is cotrl C
055C
       CA 0000
                                             z. 0
                                                             ; yes, then return to cp/m
                                     JP
055F
       CB AF
                                     res
                                             5, a
                                                             : convert up-case
0561
       FE 44
                                     CD
                                             2 D2
                                                             ; is double ?
0563
       28 0A
                                             z, fordbl
                                                             ; yes then goto format double
                                     JP
0565
                                             151
       FE 53
                                                             ; is single ?
                                     CD
0567
       20 EE
                                             nz, fddf00
                                                             ; no, then retry
                                     Jr
0569
                             forsno:
0569
       11 03E0
                                     ld
                                             de, sngmsg
                                                             ; single message
0560
                                                             ; clear accumulator for single side
056D
       18 05
                                                             ; goto format common routine
                                             formsd
                                     Jr
056F
                              fordbl:
056F
       11 03EB
                                     ld
                                             de, dblmsq
                                                             ; double message
0572
       3E 01
                                                             : load 1 for double side
                                     ld
                                             a, 1
0574
                              formsd:
0574
                                     Id
       32 0127
                                                             ; set side flag for single or double side
                                              (fsideflag), a
0577
       32 0128
                                     1d
                                              (vsideflag), a
                                                             ; set side flag for 'S' or 'D' in verify
057A
       CD FOIE
                                                              ; print single or double side
                                     call
                                             print
057D
       11 0380
                                     ld
                                                              ; do you want verify ?
                                              de, quest4
0580
       CD FO1E
                                     call
                                             print
0583
                              form7:
0583
       CD F003
                                     call
                                                             ; wait one char.
                                             cin
0586
       CB AF
                                     res
                                              5, a
                                                             ; conver up-case
0588
       FE 59
                                             2 /1
                                     cp
                                                              ; is yes ?
058A
       11 03D8
                                     1d
                                                             ; yes message
                                             de, yesmsq
058D
       28 07
                                     Jr
                                              z.form8
                                                              ; yes, then count
058F
                                             7 N7
       FE 4E
                                                              ; is no ?
                                     CD
0591
       20 F0
                                      Jr
                                             nz, form7
                                                              ; no, then retry
0593
       11 03D1
                                      1d
                                              de, nomsg
                                                              ; no message
0596
                              form8:
0596
        32 0133
                                     1d
                                              (verflag), a
                                                              ; set verify flag
0599
        CD FO1E
                                     call
                                              print
                                                              ; print yes or no
059C
        11 0322
                                      1d
                                              de, quest2
                                                              ; disk number
059F
        CD FO1E
                                      call.
                                              print
05A2
                              form2:
05A2
        CD F003
                                     call
                                              cin
                                                              ; wait one char
05A5
        CB AF
                                      res
                                              5, a
                                                              ; convert up-case
05A7
        4F
                                      1d
                                                             ; save on c for print
                                              c,a
       FE 41
05A8
                                              7 A7
                                                             ; disk is less then 'A' ?
                                      cp
05AA
        38 F6
                                      11
                                              c, form2
                                                             ; yes, then retry
```

```
Floppy Disk Formatter For NE CP/M 2.2 MACRO-80 3.36
                                                         17-Mar-80
Copyright 1984 by Studio Lg, Genova-Last rev. 19/08/84 14:17
                                                  707
                                                                   ; disk is great then 'B' ?
 05AC
          FE 43
                                         cp
 05AE
          30 F2
                                                                   ; yes, then retry
                                         Jr
                                                  nc, form2
 05B0
          32 0350
                                                                   : disk is A or B then set disk number
                                         ld
                                                  (disknum), a
 05B3
          CD F006
                                                                   ; print 'A' or 'B' for dissk number
                                         call
                                                  cout
  05B6
          11 0342
                                         ld
                                                  de, quest3
                                                                   ; are you sure
 05B9
          CD FO1E
                                                  print
                                         call
  05BC
          CD F003
                                         call
                                                  cin
                                                                   : wait one char
 05BF
          CB AF
                                                  5. a
                                         res
                                                                   : convert up-case
                                                  7 ¥7
 05C1
          FE 59
                                         CD
                                                                   ; is yes ?
 0503
          28 09
                                                                   ; no, then retry
                                         JP
                                                  z, form3
  0505
          11 03D1
                                          1d
                                                  de, nomsq
                                                                   ; no message
  0508
                                                                   ; print it
          CD FOIE
                                         call
                                                  print
 05CB
          C3 072F
                                                                   ; and retry
                                         JP
                                                  endanyop
  05CE
                                 form3:
  05CE
                                          1d
          11 03D8
                                                  de, yesmsq
                                                                   ; yes message
          CD FO1E
  05D1
                                          call
                                                  print
                                                                   ; print it
                                 ; at this point all formatting parameter are entry
  0504
          21 0A24
                                                                   : message 1 cursor address
                                         ld
                                                  hl, msqladd
  0507
          11 03A3
                                          ld
                                                  de, fvisual
                                                                   ; print 'FORMATTING'
  05DA
          CD F024 JP FS62
                                          call
                                                  printat
  05DD
          21 0021
                                          1d
                                                  hl, msg2add
                                                                   ; SIDE TRACK cursor addr.
  05E0
          11 0303
                                          15
                                                  de, vsidtrk
                                                                   ; SIDE TRACK msg addrs.
  05E3
          CD F024
                                          call
                                                  printat
                                                                   : print it
  05E6
          3A 035D
                                          1d
                                                  a, (disknum)
                                                                   ; load disk number
  05E9
          D6 40
                                                                   : A = 1 for disk A or 2 for disk B
                                          sub
  05EB
          32 0126
                                          ld
                                                  (dsksid), a
                                                                   ; initialli, side is 0
  05EE
          AF
                                          XOT
                                                                   ; clear accumulator
                                                  ā
  05EF
          32 0426
                                          1d
                                                   (sidnum), a
                                                                   : set side 0 in ID field
  05F2
                                 fdfak:
  05F2
          AF
                                                                   : clear accumulator
                                          KOT
                                                  ā
  05F3
          32 0425
                                          ld
                                                                   ; set track 0
                                                  (trknum), a
  05F6
          30
                                          inc
                                                                   : A = 1
  05F7
          32 0427
                                          ld
                                                  (secnum), a
                                                                   : set sector 1
  05FA
          3A 0126
                                          ld
                                                  a, (dsksid)
                                                                   : load disk and side para
  05FI)
          D3 D6
                                          out
                                                  (fddlch), a
                                                                   : select drive and side
  05FF
          3E 02
                                          ld
                                                  a, fddrest
                                                                   ; load fdd restore command code
  0601
          D3 D0
                                          out
                                                   (fddcmd), a
                                                                   ; send out to 1771
  0603
                                  fdfor1:
  0603
          CD 0774
                                          call
                                                  waitfd
                                                                   : wait until end command
  0505
                                                                   ; zero in accumulator ?
          B7
                                          01
                                                  a ·
  0607
          C2 07A0
                                          JP
                                                  nz, timeout
                                                                   ; if no zero then disk offline
                                                                   ; visualize side and track
  060A
          CD 073E
                                          call
                                                  sidtrkvis
                                                                   : H.L = preamble table (40 bytes 'ff')
  050D
          21 03F6
                                          ld
                                                  hl, preamble
  0610
          0E D7
                                          ld
                                                                   : C = fdd data register
                                                  c, fdddat
  0612
          06 28
                                          ld
                                                  b, 40
                                                                   ; bytes counter
  0614
          3E F4
                                          ld
                                                                    ; load write track command code
                                                   a, fddwtrk
  0616
          D3 D0
                                                                   ; send out to 1771
                                          out
                                                   (fddcmd), a
  0518
          CD 076F
                                          call
                                                                   ; wait aproax 56 microS
                                                   fddelay
  061B
                                  wtpreamb:
  061B
          DB DO
                                                  a, (fddsts)
                                                                   ; load fdd status
                                          in
          CB 4F
  051D
                                                                    ; test DRQ bit
                                          bit
                                                   1, a
  061F
          28 FA
                                                                   ; wait if no DRQ
                                                   z, wtpreamb
                                          11
  0521
           ED A3
                                          outi
                                                                   ; write one byte
          20 F6
  0623
                                                                   ; repeat until all 40 bytes are output
                                          11
                                                   nz, wtpreamb
```

```
C3 064C
0656
                                                endtrk
                                                                : repeat until end track
                                       JP
0659
                               nexttrk:
0659
        DB DO
                                                a, (fddsts)
                                                                : load fdd status
                                       in
065B
        E6 E7
                                                11100111b
                                                                : write track error?
                                       and
0650
        C2 0794
                                       JP
                                                nz, fdforerr
                                                                ; yes, then goto error
0660
        3A 0425
                                       ld
                                                                ; load track number
                                                a, (trknum)
0663
        30
                                       inc
                                                                 ; point to next track
0664
        FE 28
                                                                : end side ?
                                       CO
                                                40
        28 OF
0666
                                                                ; yes, then go to end
                                                z, endside
                                       Jr
        32 0425
                                       1d
0668
                                                                ; set next track
                                                (trknum), a
066B
        3E 01
                                       ld
                                                a. i
                                                                : load first sector number
        32 0427
                                                                : set first sector number
066D
                                       ld
                                                (secnum), a
                                                                ; load fdd step in
        3E 52
0670
                                       ld
                                                a, fddsin
0672
        D3 D0
                                       out
                                                (fddcmd), a
                                                                : send out to 1771
0674
        C3 0603
                                                fdfori
                                                                 ; count for next track
                                       Jp
0677
                               endside:
```

a, (fsideflag)

(fsideflag), a

z, enddsk

ld

OF

JP

KOP

ld

inc

; single or double side ?

; clear accumulator

; reset side flag

: A = 1

; a = 0 then s.s. or end side two then jmp to format another dis

0577

067A

067B

067E

067F

0682

3A 0127

CA 0693

32 0127

**B7** 

AF

```
Copyright 1984 by Studio Lg, Genova-Last rev.19/08/84 14:17
          32 0426
                                                                 ; set side one in ID field
 0683
                                         ld
                                                 (sidnum), a
 0686
          3A 035D
                                         1d
                                                 a, (disknum)
                                                                 : load diak number
 0689
          D6 40
                                                 282
                                                                  ; 1 for A, 2 for B
                                         sub
 068B
          F6 20
                                         or
                                                 00100000b
                                                                  ; set side one
 0680
          32 0126
                                         ld
                                                 (dsksid), a
 0690
          C3 05F2
                                                 fdfok
                                                                  ; format side 1
                                         Jp
 0693
                               enddsk:
 0693
                                                                  : clear accumulator
                                         XOF
 0694
          D3 D6
                                         out
                                                 (fddlch), a
                                                                 ; deselect any disk
                                         ; at this point, disk has been formatted
          3A 0133
 0696
                                         ld
                                                 a, (verflag)
                                                                 ; load verify flag
 0699
          FE 59
                                                                 ; is yes?
                                         CD
 069B
          C2 072F
                                                                  ; no, then goto end disk
                                         JP
                                                 nz, endanyop
                                               con recify
 069E
                                 dskverify:
 069E
          21 0924
                                         1d
                                                 hl, msgiadd
                                                                  ; message i cursor address
 05A1
          11 03B3
                                         10
                                                 de, vvisual
                                                                 ; DE -> verify message
 06A4
          CD F024
                                                                  ; print it at HL
                                         call
                                                 printat
          3A 0126
 05A7
                                         ld
                                                 a, (dsksid)
                                                                  : load disk and side
 06AA
          E6 03
                                         and
                                                 00000011b
                                                                  ; mask disk number
 05AC
          31)
                                         dec
                                                                  ; disk A = 0, B = 1
  06AD
                                 dskve10:
  06AD
          32 0234
                                         ld
                                                 (verdsk), a
                                                                  : start disk and side
 06B0
          AF
                                                                  ; clear accumulator
 06B1
          32 0234
                                                 (vertrk), a
                                                                  ; start track 0
                                         ld
 0684
                                 dskve00:
  05B4
          30
                                         inc
  06B5
          32 0236
                                         ld
                                                 (versec), a
                                                                  : start sector 1
  05B8
                                                                  ; DE -> translate table
          11 0129
                                         ld
                                                 de, xlt
  06BB
                                 vervis:
  06BB
          3A 0234
                                                                  ; load verify disk and side
                                         ld
                                                 a, (verdsk)
  06BE
          E6 10
                                                 00010000b
                                                                  : mask side
                                         and
                                                 z, verv00
  06C0
          28 02
                                                                  ; jmp if side 0
                                         Jr
          3E 01
  06C2
                                         ld
                                                 a, 1
                                                                  set side 1
  06C4
                                 very00:
  06C4
          105
                                         push
                                                 de
                                                                  ; save xlt pointer
  0605
          32 0426
                                                                  ; set ID side for visualization
                                         ld
                                                 (sidnum), a
  0608
          3A 0234
                                         1d
                                                 a, (vertrk)
                                                                  ; load verify track
  06CB
          32 0425
                                         ld
                                                 (trknum), a
                                                                  ; set ID side for visualization
  OGCE.
          CD 073E
                                         call
                                                 sidtrkvis
                                                                  ; visualize side and track
          21 0234
  06D1
                                         ld
                                                 hi, vertab
                                                                  ; verify tab para
                                                                                          F015
          CD F015
  06D4
                                                                  ; read 256 bytes
                                         call
                                                 fdied
                                                 a A
  06D7
          B7
                                         OΓ
                                                                  : read error ?
  06D8
          28 15
                                                 z, readok .
                                                                  ; no, then goto verify bytes
                                         Jr.
  06DA
                                 readerr:
                                                                  ; DE -) read error message - auI
  06DA
          11 0294
                                         1d
                                                 de, rdermsg
  OGDD
                                 rder00:
  06DD
          21 0E19
                                         ld
                                                 hl,ermsgadd
                                                                  ; error message address
  06E0
          CD F024
                                         call
                                                 printat
                                                                  ; print it
                                                                  ; print 'Hit any key'
  06E3
          11 02B8
                                         ld
                                                 de, wterr
  06E6
          CD F01E
                                         call
                                                 print
  06E9
          CD F003
                                         call
                                                 cin
```

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072F 06 02 b, 2 : set soft timer 2 0731 endan00: 0731 11 0000 ld de. 0 ; set soft timer 1 0734 endanii: 0734 1B dec de ; timer 1 down 0735 7A 1d a, d 0736 B3 or 8 ; zero for timer 1 ? 0737 20 FB nz, endan11 ; no, then count Jr. 0739 10 F6 ; timer 2 down and repeat until timer 2 = 0 endan00 d,inz 073B C3 054B fddform ; go to format another disk JP

: visualize side and track

hl, snumadd ; side video addr.

sidtrkvis:

073E

073E

21 0026

```
Copyright 1984 by Studio Lg, Genova-Last rev. 19/08/84 14:17
 0741
          CD F027
                                          call
                                                  moveurs
                                                                   ; move cursor
 0744
          3A 0426
                                                                   : load ID side number
                                          ld
                                                  a. (sidnum)
                                                  a, 10°
                                                                    : convert ASCII
  0747
          C6 30
                                          add
  0749
          4F
                                          ld
                                                  c, a
                                                                    ; print side 0 or 1
  074A
          CD F006
                                          call
                                                  cout
  074D
          21 0030
                                          ld
                                                                    ; track video adrr.
                                                  hl, tnumadd
                                                                   ; move cursor
          CD F027
  0750
                                          call
                                                  MOVCUS
  0753
          3A 0425
                                          ld
                                                  a, (trknum)
                                                                   ; load ID track number
                                                                    ; set decimal counter
                                                  b, 255
  0756
          06_FF
                                          1d
  0758
                                 sidtr00:
  0758
                                                                    ; inc. decimal digit
                                          inc
                                                                   : A=A-10
  0759
          D6 0A
                                                  10
                                          sub
  0759
          30 FB
                                          JF
                                                  nc, sidtr00
                                                                   : count if A >= 0
                                                                    ; at this point A = 1sd, B = msd (BCD)
  075D
          C6 0A
                                          add
                                                  a, 10
  075F
                                                  af
                                                                    ; save lsd
          F5
                                          push
  0760
                                          ld
                                                                    : load msd
          78
                                                  a, b
                                                  a, 707
  0761
          C6 30
                                          add
                                                                    ; convert ascii
  0763
                                          10
                                                  c, a
  0764
          CD F006
                                          call
                                                                    ; print msd
                                                  cout
  0767
                                                  af
                                          pop
          F1
                                                  a, '0'
  0768
          C6 30
                                          add
                                                                    : convert ascii
  076A
          AF
                                          ld
                                                  c, a
                                                                    ; print lsd
  0768
          CD F006
                                          call
                                                   cout
  076E
                                          ret
                                                                    ; and ret
          09
  076F
                                  fddelay:
                                                   (sp), hl
                                                                    ; delay beetwen write command reg.
                                          6%
                                                                    ; to read status reg.
                                          endm
                                                                   ; delay beetwen write command reg.
  076F
           E3
                                                   (sp), hl
                                                                   ; delay beetwen write command reg.
  0770
          E3
                                                   (sp), hl
                                          €X
                                                                   : delay beetwen write command reg.
           E3
                                                   (sp), hl
  0771
                                          EX
                                                   (sp), hl
                                                                    ; delay beetwen write command reg.
  0772
           E3
                                          ex
  0773
                                           ret
  0774
                                  waitfd:
                                           ; wait until fdd busy is reset.
                                                               ; wait aproax 56 microS
  0774
           CD 076F
                                                   fddelay
                                           call
                                                                    ; set soft timer
           06 02
                                           1d
  0777
                                                   b, 2
  0779
                                  wait00:
                                                                    ; for aproax five seconds
  0779
           11 0000
                                                   de, 0
  077C
                                  wait01:
  077C
                                                   a, (fddsts)
                                                                    ; input to fdd status
           DB DO
                                           in
                                                                    ; test busy bit
  077E
           CB 47
                                           bit
                                                   0, a
                                                                    ; jump if no command is in progress
  0780
           28 OF
                                                   z, wait02
                                           11
  0782
           18
                                           dec
                                                   de
  0783
           7A
                                           ld
                                                   a, d
                                                                      timer down
  0784
           B3
                                           97
                                                   0
  0785
                                                   nz, wait01
           20 F5
                                           Jr
  0787
           05
                                           dec
                                                   Ь
                                                                    ; time out
  0788
           20 EF
                                                   nz, wait00
                                           JP
  078A
                                  ofline:
                                                                    ; reset fdd controller
   078A
           3E D0
                                                   a, fddrst
                                           ld
                                                                    : exec. command
  078C
           D3 D0
                                                   (fddcmd), a
                                           out
                                                                    ; set time-out bit error
   078E
           3E 01
                                           1d
                                                   a,00000001b
                                                                     ; and ret
   0790
           C9
                                           ret
```

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0791		wait02:				
0791	47		ld ·	b, a		save fdd status in B register
0792	AF		xor	a		clear accumulator for
0793	C9		ret			normal return
0794		fdforer	T *			
0794	21 0E19		ld -	hl,ermsgadd	9	error message address
0797	11 0285		ld-	de, fmtermsg		DE = format error message .
079A	CD F024		call	printat	2 2	print it
079D	C3 07A9		JP	retry		and go to cp/m
		* 7				
07A0		timeout				
07A0	21 OE19		ld	hl,ermsgadd	7	error message address
07A3	11 0276		ld	de, oflmsg	2	DE = offline message
07A6	CD F024		call	printat	2	print it
07A9		retry:				
07A9	11 023A		ld	de, setnew	7	DE = set new disk message
07AC	CD F01E		call	print	* 7	
07AF	CD F003		call	cin	1.6	wait one char.
07B2	C3 0000		JP	0	n 2	and return to cp/m
		2				
		7				
		7				
		1				
			end	100h	7	end of floppy disk formatter

Macros:

Symbols	8						
BACKSP	8000	BELL	0007	BOOTRO	F021	CIN	F003
COMPFL	F02D	COPYRI	0000	COUT	F006	CR	0000
CSTS	F009	DBLMSG	03EB	DISKNU	035D	DSKSID	0126
DSKVEO	06B4	DSKVE1	06AD	DSKVER	069E	ENDANO	0731
<b>ENDAN1</b>	0734	ENDANY	072F	ENDDSK	0693	ENDMSG	0024
ENDSID	0677	ENDTRK	064C	ENDVER	0706	ERMSGA	0E19
FALSE	0000	FDBUSY	0001	FDDCMD	00D0	FDDDAT	0007
FDDELA	076F	FDDF00	0557	FDDFOR	054B	FDDLCH	0006
FDDRES	0002	FDDRQ	0002	FDDRST	OODO	FDDSEC	0002
FDDSIN	0052	FDDSTS	0000	FDDTAB	03F6	FDDTRK	0011
FDDWTR	00F4	FDFOK	05F2	FDFOR1	0603	FDFOR2	0525
FDFORE	0794	FDIOD	F015	FDIOS	F012	FDNRDY	0080
FDT1ER	0018	FDT23E	001F	FDWPRT	0040	FFEED	0000
FLASH	0043	FMTERM	0285	FORDBL	056F	FORM2	05A2
FORM3	05CE	FORM7	0583	FORMS	0596	FORMSD	0574
FORSNG	0569	FSIDEF	0127	FVISUA	03A3	IDFIEL	041E
INIMSG	02C8	LF	000A	LOUT	FOOD	LSTS	F00F
MOVCUR	F027	MSG1AD	0A24	MSG2AD	0C21	NEXTTR	0659
NOMSG	03D1	NORM	0040	DFLINE	078A	OFLMSG	0276
PFX	0013	PREAMB	03F6	PRINT	F01E	PRINTA	F024
QUEST1	02F5	QUEST2	0322	QUEST3	0342	QUEST4	0380
RDER00	06DD	RDERMS	0294	READER	06DA	READOK	06F0
RETRY	07A9	REVER	0048	RDM	F000	SECNUM	0427
SETNEW	023A	SIDNUM	0426	SIDTRO	0758	SIDTRK	073E
SNGMSG	03E0	SNUMAD	0C26	SPACE	0020	STACK	0126
STROUT	F01E	TAB	0009	TIMEOU	07A0	TNUMAD	0030
TRKNUM	0425	TRUE	0001	VENDSI	071D	VERBUF	0134
VERDMA	0237	VERDSK	0234	VERERR	06FB	VERFLA	0133
VERIFO.	06F6	VEROK	0700	VEROP	0239	VERRMS	02A5
VERSEC	0236	VERTAB	0234	VERTRK	0234	VERV00	06C4
VERVIS	06BB	VIDINI	F02A	VSIDEF	0128	VSIDTR	0303
VVISUA	03B3	WAIT00	0779	WAIT01	077C	WAIT02	0791
WAITFD	0774	WDINI	F018	MDIO	F01B	WTIIDF	0536
WTERR	02B8	WTIDFI	062A	WTPREA	051B	XLT	0129
YESMSG	03D8						

No Fatal error(s)