```
- *
                               FLOPPY DISK FORMATTER
                         = 1
                                This program format floody disk with
                         ÷ <del>1</del>
                                   10 sector with 256 byte/sector
                                     in single or double side
                         u *
                         世长
                         title Floody Disk Formatter for NE CP/M 2.2
                               subttl Copyright 1984 Studio Lo. Genova - Last rev 15/08/84 09:38
                               Programmer: Martino Stefano
                               Modified by Gallerani Paolo
0001
                         true
                               600
0000
                                      0
                         false
                               607
0000
                        copyrig equ
                                      false
                               Include ASCII.LIB
                   C
                   C
                   C
                         C
                   C
                                      ASCII EQUIVALENTS
                        2 %
                   C
                   C
                         C
                                      7 @ 2 - 1 @ 2
0007
                   C
                        bell.
                                                   : rind beeper
                               20U
                                      2 H3 - 2 B3
0008
                   C
                        backso eou
                                                   : back space char.
                                      7 72-7 62
0009
                  C
                        tab
                               POU
                                                   : tabulation char.
                                      2. 12-7 的2
000A
                  C
                        15
                                                   : line-feed char.
                               200
                                      7 2-1 67
                  C
000C
                        ffeed
                               2011
                                                   : form feed char.
                  C
                                      2 M3 - 2 B2
0000
                        CT
                               eau
                                                   : carriace-return char.
                                      5 53 -1 B1
0013
                  0
                        อร์ห
                                                   : attributes ofx
                               600
                  C
                                      7 B7
0042
                                                   : Reverse On (^SB)
                        rever
                               90 U
0043
                  C
                                      1 [72
                                                   : Flash On
                                                                (ASC)
                        flash equ
                  C
                                      7 色7
0040
                        norm
                                                   : Normal
                                                                (^S@)
                               ecu
                  C
                                      7 7
0020
                        space
                               ecu
                                                   : space char.
                  C
                                      2 43
                                                   : end of print message
0024
                        endmso eou
                               0308
                                      52
```

```
C
                                Include ROMENTRY.LIB
                   C
                   C
                   C
                          C
                          当长
                   C
                                       Rom routines address
                          = 拼
                   C
                   C
                          C
                   C
                                       0F000h
F000
                                                     : (-- rom startino address
                         rom
                                eou
F003
                   C
                         cin
                                eau
                                       rom+3
                                                     : console input
                   C
F005
                         cout
                                e04
                                       romt6
                                                     t console outout
F009
                   C
                         csts
                                2011
                                       Pom+9
                                                     : comsole status
                   C
FOOC
                         lout
                                90U
                                       rom+12
                                                     : printer output
                   C
                                                     : printer status
FOOF
                         lsts
                                       rom+15
                                60 ff
                   C
F012
                         fdios eou
                                       romtië
                                                     : fdd I/O 128 byte
F015
                   C
                         fdiod eou
                                       rom+21
                                                     ; fdd I/O 256 byte
                   C
                                                     : wdd initialization
F018
                         woini
                                       rom+24
                                eau
                   C
                                                     : wdd I/O 256 byte
                         wdio
                                       rom+27
F01B
                                ecu
                                                     ; orint string .DE until $
                   C
                         strout eau
                                       rom+30
F01E
F01E
                   C
                         orint eau
                                       strout
                                                     : sinonime
                   C
                                       rom+33
                                                     : load BIOS and oo to wboote
F021
                         bootrom equ
                   C
                                       rom+36
                                                     : print str. -> DE at -> HL cursor
F024
                         printat eou
                   C
                                       rom+39
                                                     : move cursor at -) HL
F027
                         moveurs equ
F02A
                   C
                         vidinit eou
                                       P0m+42
                                                     : initialize video
FO2D
                   C
                          ComoFlo eou
                                       rom+45
                                                     : Version Number
                   ľ.
                          ********************
                                       Message cursor position
                          **
                          0700
                          Confadd equ
                                       0700h
                                                     : Confirm msc position (X=01 Y=09)
                                       1019h
                                                     : error mso position (X=25 Y=14)
1019
                          ermscadd ecu
0C23
                          msoladd eou
                                       0c23h
                                                     : form/ver msc position (X=36 Y=10)
0E1F
                                       0e1fh
                                                     : trk/sid mso position (X=32 Y=15)
                          mso2add eou
                                                     trk num. position (X=38 Y=15)
0E25
                          trumadd eou
                                       0e25h
                                       0e2fh
                                                     : sid num. position (X=48 Y=15)
0E2F
                          snumadd ecu
                                page
```

```
FD 1771 I/O port
                    · ·
                    五茶
                    0d0h
OODO
                    fddsts ecu
                                         : fdd status oort
                                         : fod track oort
0001
                               0d1h
                    fddtrk eau
                                         ; fdd sector port
                    fddsec eou Od2h
00D2
00D6
                    fddlch eou Od6h ·
                                          : fdd lach oort
00D7
                    fdddat eou Od7h
                                         : fdd data port
                                          : fdd command port
00D0
                    fddcmd eau
                               fddsts
                     FD 1771 Command Summarv
                     : +
                     : this command are without verify because disk isn't formatted
0002
                    fodrest eau
                               00000010b
                                          : fod restore command code
00D0
                    fddrst eau
                               11010000b
                                          : fdd reset int. command code
                               01010010b
                                          : fdd step in command code
0052
                    fddsin eau
                               11110100b
                                          : fdd write track command code
                    fddwtrk eau
00F4
                     FD 1771 Flac Mask
                     2 长
                    5条
                     001h
                                          : busy flag is bit 0
0001
                    fdbusy eou
                               002h
                                         : dro flao is bit 1
0002
                    fddro eou
0040
                               040h
                                         : write protect flag is bit 6
                    fdwort eou
                               080h
                                         ; not ready flag is bit 7
0080
                    fdnrdy eou
                               018h
                                         : mask error for type I commands
0018
                    fotler eou
                    fdt23er eou
                               01fh
                                         ; mask error for type II and type III commands
001F
                          0808
```

```
* START
                                                                                                                  Set stack and do to floody format
                                                                           00003
                                                                                              aseo
                                                                                              ord
                                                                                                                 100h
 0100
                    31 0126
                                                                                              ld
                                                                                                                 so, stack
                                                                                                                                                    : set stack pointer
 0103
                    C3 056E
                                                                                                                  fodform
                                                                                              10
                                                                                                                                                        : oo to floopy format
                                                                           : *
                                                                                                                           Ram data areas
                                                                          = 岩
                                                                          \tiny \texttt{IMARKANAFERERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTERSENTE
                                                                                                                 coovrid
                                                                                                                 ' COPYRIGHT (c) 1983 by STUDIO Lg. Geneval ITALY '
                                                                                              defb
                                                                                             endif
 0106
                                                                                             defs
                                                                                                                 32
                                                                                                                                                       : stack data areas
 0126
                                                                          stack
                                                                                             eou
0125
                                                                          DskSid: defs
                                                                                                                                                      : byte to outout latch
0127
                                                                          FMode: defs
                                                                                                                                                      : Single or Multiple mode
0128
                                                                          FSides: defs
                                                                                                              1
                                                                                                                                                       : Single or Double Side
0129
                                                                          FTrks: defs
                                                                                                                                                        : 40 or 80 Tracks
0129
                                                                          xlt:
012A
                   05 09 03 07
                                                                                            defb
                                                                                                                5, 9, 3, 7, 2, 6, 10, 4, 8, 0
012E
                    02 06 0A 04
0132
                    00 80
0134
                                                                          verbuff:
0134
                                                                                                                256
                                                                                                                                                      : verify buffer (256 byte)
                                                                                            defs
                                                                          * VERTAB
                                                                                                                Param table for disk verify
                                                                          0234
                                                                         VerTab:
                                                                                                                                                       : Verify Parameters
0234
                  00
                                                                         VerDsk: defb
                                                                                                                0
                                                                                                                                                        : disk and side
0235
                   0000
                                                                         VerTrk: defw
                                                                                                                0000
                                                                                                                                                       : track number
0237
                  01
                                                                         VerSec: defb
                                                                                                                1
                                                                                                                                                       : sector number
0238
                   0134
                                                                         VerDma: defw
                                                                                                               verbuff
                                                                                                                                                       : dma address
```

```
Flopov Disk Formatter for NE CP/M 2.2 MACRO-80 3.36 17-Mar-80
                                                                  1-4
Copyright 1984 Studio Lg. Genova - Last rev 15/08/84 09:38
 023A
                          VerOo∶ defb
                                     0
                                                    : verify = read operation
                          ***<del>******************</del>
                                       Error Messaces
                          023B
                          oflmso:
 023B
       OD OR 44 69
                                defb cr.lf.'Disk offline'.endmso
 023F
       73 6B 20 6F
 0243
       56 55 6C 69
 0247
        6E 65 24
 024A
                          fmtermso:
        OD 0A 46 6F
                                       er. lf. 'Format error'. endmso
 024A
 024E
       72 6D 61 74
 0252
        20 65 72 72
 0256
        6F 72 24
 0259
                          rdermso:
 0259
        56 65 72 69
                                defb
                                       'Verify read error', endmso
 025D
        66 79 20 72
 0261
        65 61 64 20
        65 72 72 6F
 0265
 0269
        72 24
 026B
                          verrmso:
 0269
        56 65 72 69
                                defb
                                       'Verify data error', endoso
 026F
        65 79 20 64
        61 74 61 20
 0273
 0277
        65 72 72 6F
 027B
        72 24
 0270
                          wterr:
 027D
       20 20 20 48
                                defb
                                       " - Hit anv key '.endmso
 0281
        69 74 20 61
        6E 79 20 6B
 0285
 0289
        65 79 20 24
                          Formatting Option
                          028D
                          IniMso:
                                       ffeed, cr. lf. 19, 'H'
 028D
       OC OD OA 13
                                 defb
 0291
        48
 0292
       20 20 20 46
                                defb
                                       ' Floody Disk formatter vers 4.22', cr, lf
        6C 6F 70 70
 0296
 029A
       79 20 44 69
       73 6B 20 66
 029E
       6F 72 6D 61
 02R2
 02A6
       74 74 65 72
 02RR
        20 76 65 72
        73 20 34 2E
```

02AE 0282

32 32 00 00

Floppy Disk Formatter for NE CP/M 2.2 MACRO-80 3.36 17-Mar-80 PAGE 1-5 Copyright 1984 Studio Lg, Genova - Last rev 15/08/84 09:38

0286	13 40 0D 0A	CrLFOF: 19,'@'	,cr,lf,endmso
02BA	24		
02BB	28 53 29 69	Quest0: defb	'(S)ingle or (M)ultiple Mode (or ^C to exit) . M', backsp, endmsg
02BF	6E 67 6C 65		
0203	20 6F 72 20		
0207	28 4D 29 75		
02CB	6C 74 69 70		
02CF	6C 65 20 4D		
0203	6F 64 65 20		
02D7	28 6F 72 20		
02DB	5E 43 20 74		
02DF	6F 20 65 78		
02E3	69 74 29 20		
02E7	2E 20 4D 08		
02EB	24		
		Owner() dofh	'(S)inple or (D)ouble Side S', backsp, endmsg
02EC	28 53 29 69	WUED61 * UCIO	tarinute of through once assessment a package, enumber
02F0	6E 67 6C 65		
02F4	20 6F 72 20		
02F8	28 44 29 6F		
02FC	75 62 6C 65		
0300	20 53 69 64		
0304	65 20 2E 2E		
0308	2E 2E 2E 2E		
0300	2E 2E 2E 2E		
0310	2E 2E 2E 2E		
0314	2E 2E 2E 2E		
0318	2E 20 53 08		
031C	24		1711A 781A W
0310	28 34 29 30	QuestZ: detb	'(4)0 or (8)0 Tracks 40', backso, backso, endmso
0321	20 6F 72 20		
0325	28 38 29 30		
0329	20 54 72 61		
032D	63 6B 73 20		
0331	2E 2E 2E 2E		
0335	2E 2E 2E 2E		
0339	2E 2E 2E 2E		
033D	2E 2E 2E 2E		
0341	2E 2E 2E 2E		
0345	2E 2E 2E 2E		
0349	2E 20 34 30		
034D	08 08 24		
0350	44 69 73 68	Quest3: defb	'Disk to be format (A) o (B) B', backsp, endmsg
0354	20 74 6F 20		
0358	62 65 20 66		
035C	6F 72 6D 61		
0360	74 20 28 41		
0364	29 20 6F 20		
0368	28 42 29 20		
0360	2E 2E 2E 2E		
0370	2E 2E 2E 2E		
0374	2E 2E 2E 2E		
0378	2E 2E 2E 2E		
0370	2E 20 42 08		
0380	24		
0381	OD OA 07 43	Quest4: defb	cr. 1f. bell, 'Confirm Formatting of Disk ', 19, 'H'
0385	6F 6E 66 69		
0300	70 ED 20 45		

```
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 0380
          6F 72 6D 61
          74 74 69 6E
 0391
          57 20 6F 66
  0395
 0399
          20 44 69 73
 0390
          68 20 13 48
 03A1
                                 disknum:
 03A1
          00
                                          defb
 03A2
          13 40 20 28
                                          defb
                                                  19, '@ (^C to exit) ... '.endmso
  03A6
          5E 43 20 74
          6F 20 65 78
  03AA
          69 74 29 20
  03AE
 03B2
          2E 2E 2E 20
  0386
          24
          13 48 53 49
                                                  19, 'HSINGLE', endmso
 03B7
                                 Mso.SM: defb
          4E 47 4C 45
  0388
 03BF
          24
                                                  19, 'HMULTIPLE', endmso
 0300
          13 48 4D 55
                                 Msa.#M: defb
 0304
          4C 54 49 50
          4C 45 24
 0308
                                                  Msc. SM
 03B7
                                 Mso.SS eou
 OSCB
          13 48 44 4F
                                 Msg.DS: defb
                                                  19, 'HDOUBLE', endmso
 03CF
          55 42 4C 45
 03D3
          24
          13 48 34 30
                                 Msa.40: defb
                                                  19. 'H40' . endmso
 0304
 0308
          24
 0309
          13 48 38 30
                                 Msa.80: defb
                                                  19, 'H80', endmso
 0300
          24
                                 Msq.A: defb
                                                  19, 'HA', endmso
 03DE
          13 48 41 24
 0382
          13 48 42 24
                                                  19, 'HB', endmso
                                 Msa.B: defb
 03E6
          59 45 53
                                 MsoYES: defb
                                                  'YES'
 03E9
                                 fvisual:
  03E9
          07 13 48 46
                                         defb
                                                  bell, 19, 'H', 'FORMATTING', 19, '@', endmsg
          4F 52 4D 41
 03ED
 03F1
          54 54 49 4E
          47 13 40 24
 03F5
 03F9
                                 vvisual:
                                                  bell, 19, "H", "VERIFYING ", 19, "@", endmso
 03F9
          07 13 48 56
                                         defo
 03FD
          45 52 49 46
          59 49 4E 47
 0401
 0405
          20 13 40 24
 0409
                                 vsidtrk:
 0409
          54 52 41 43
                                          defb
                                                  7 TRACK
                                                               SIDE', endaso
 0400
          4B 20 20 20
          20 20 20 53
 0411
          49 44 45 24
 0415
                                          0000
```

17-Mar-80

Floody Disk Formatter for NE CP/W 2.2 MACRO-80 3.36

			625						
			-	*******				******	
			** C U B M T U		*********	******	******		
			* FORMIA		F				K.
			** ************		for track		*********		<b>*</b>
			************	*****	**********	CERRERS	*********	********	<i>K</i> :
0419			; fddtab:						
0.613			I UU L AU ×						
			: *** PREAMBLE	M.W.W.					
			S ARE PACHABLE	REN					
0419			: oreamble:						
0413				40		v francis	preamble	tan levele	, 25571
			rept defb	255			Diegmore	MAN DAFF	= 11 /
			endm	Lului		E †			
0419	FF	4	defb	255					
0419	FF	÷	defb	255		2			
041B	FF	+	defb	255		7			
041C	FF	+	defb	255					
041C	FF	+	defb	255		2			
	FF	+	defb	255		7			
041E	FF	+		255		1			
041F			defb	255		4			
0420	FF	+	defb	255		2			
0421	FF		defb			1			
0422	FF	+	defb	255		7			
0423	FF	+	defb	255		7			
0424	FF	+	defb	255		1			
0425	FF	+	defb	255		7			
0425	FF	+	defb	255		1			
0427	FF	+	defb	255		4			
0428	FF	+	defb	255		-			
0429	FF	+	defb	255		7			
042A	FF	+	defb	255		5			
042B	FF	+	defb	255		1			
042C	FF	+	defb	255					
0420	FF	+	defb	255		5			
042E	FF	+	defb	255		7			
042F	FF	+	defo	255		Ť			
0430	FF	+	defb	255		7			
0431	FF	+	defb	255		7			
0432	FF	+	defb	255		7			
0433	FF	+	defb	255		5			
0434	FF	+	defb	255		3			
0435	FF	+	defb	255		7			
0435	FF	+	defb	255		*			
0437	FF	+	defb	255		8 5			
0438	FF	+	defb	255		:			
0439	FF	+	defb	255		7			
043A	FF	+	defb	255		7			
043B	FF	+	defb	255		*			
043C	FF	+	defb	255		5			
0431)	FF	+	defb	255		7			
043E	FF	+	defb	255		•			
043F	FF	+	defb	255		*			
0440	FF	+	defb	255		2			
			# *						
			; *** GAP III ·	<b>张紫紫</b>					

defb

defh

0e5h 0e5h

0461

0462

E5

Floppy Dis	sk Formatter	for	NE CP/M 2.2	MACRO-	30 3.36	17-W	ar-80
Copyright	1984 Studio	Lo,	Genova - Last	rev 15	/08/84 (	09:38	
0463	E5		+	defb	0e5h		u 7
0464	E5		+	defb	0e5h		u T
0465	E5		+	defb	0e5h		
0466	E5		+	defb	0e5h		
0467	E5		+	defb	0e5h		
0468	E5		+	defb	0e5h		
0469	E5		+	defb	0e5h		
046A	E5		÷	defb	0e5h		
046B	E5		+	defb	0e5h		
046C	E5		+	defb	0e5h		
0460	E5		+	defb	0e5h		
045E	E5		+	defb	0e5h		1
046F	E5		+	defb	0e5h		1
0470	E5		+	defb	0e5h		7
0471	E5		÷	defb	0e5h		
0472	E5		+	defb	0e5h		7
			+	defb	0e5h		
0473	E5						•
0474	E5		÷	defb	0e5h		7
0475	E5		+	defb	0e5h		
0476	E5		+	defb	0e5h		1
0477	E5		+	defb	0e5h		•
0478	E.5		+	defb	0e5h		
0479	E5		+	defb	0e5h		;
047A	E5		+	defb	0e5h		A -
0478	E5		÷	defb	0e5h		÷
047C	E5		+	defb	0e5h		;
0470	E5		+	defb	0e5h		;
047E	E5		+	defb	0e5h		
047F	E5		+	defb	0e5h		
0480,	E5		+	defb	0e5h		1
0481	E5		÷	defb	0e5h		
0482	E5		+	defb	0e5h		;
0483	E5		+	defb	0e5h		* *
0484	E5		+	defb	0e5h		ж.
0485	E5 -		+	defb	0e5h		*
0486	E5		+	defb	0e5h		:
0487	E5		+	defb	0e5h		
0488	E5		+	defb	0e5h		:
0489	E5		+	defb	0e5h		8 T
0488	E5		+	defb	0e5h		* ·
0489	E5		+	defb	0e5h		* 1
048C	ES		+	defb	0e5h		
048D	E5		+	defb	0e5h		*
048E	E5		+	defb	0e5h		
048F	E5		+	defb	0e5h		
0490	E5		+	defb	0e5h		N N
0491	E5		+	defb	0e5h		*
0492	E5		+	defb	0e5h		9 4 7
0493	E5		÷	defo	0e5h		7
0494	E5		+	defb	0e5h		r e
0494			+	defb	0e5h		1 1
	E5		+	defb	0e5h		3
0496	E5		÷	defb	0e5h		7
0497	E5				0e5h		1
0498	E5		+	defb			5
0499	E5		+	defb	0e5h		9
0498	E5		+	defb	0e5h		Ŷ.
0498	E5		+	defb	Oe5h Oe5h		4
430 846	14, 200		nde.	CHATC	1.1547 (17)		1.00

PAGE

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		-12 88 14 8 5	Vocan a		W BA	in in later
Committee of the commit	sk Formatter for					PAGE
Looyright	1984 Studio Lg,	benova - Last	rev 15/1	08/84 03:38		
049D	E5	+	defb	0e5h		
049E	E5	+	defb	0e5h	*	
049F	E5	+	defb	0e5h	1 4	
0490	E5	+		0e5h	1	
0490	E5	+		0e5h	7	
04A2	E5	+		0e5h	*	
04AZ	E5	+		0e5h	₩ ₩	
	E5	+				
0494	E5	4		0e5h	i	
04A5 04A6	E5	+	defb defb	0e5h 0e5h	4	
04A7		+		0e5h	5	
	E5	+	defb		Ÿ	
0448	E5		defb	0e5h	7	
0499	E5	+	defb	0e5h		
0444	E5	+		0e5h	3	
04AB	E5	+		0e5h	3	
04AC	E5	+	defb	0e5h	•	
04AD	E5	+	defb	0e5h	3	
04AE	E5	+	defb	0e5h	2	
04AF	E5	+	defb	0e5h	7	
0480	E5	+	defb	0e5h	3	
04B1	E5	+	defo	0e5h	;	
04B2	E5	+	defb	0e5h		
0483	E5	÷	defb	0e5h	*	
04B4	E5	÷	defb	0e5h	3	
04B5	E5	+	defb	0e5h	9	
0485	E5	÷	defb	0e5h	*	
04B7	E5	+	defb	0e5h	7	
0488	E5	+	defb	0e5h	ž	
0489	E5	+	defo	0e5h	÷	
04BA	E5	+	defb	0e5h		
04BB	E5	+	defb	0e5h	ţ	
04BC	E5	+	defb	0e5h		
0480	E5	+	defb	0e5h		
04BE	E5	+	defb	0e5h	÷	
04BF	E5	+	defb	0e5h	<b>\$</b>	
0400	E5	+	defb	0e5h	a T	
04C1	E5	÷	defb	0e5h	*	
04C2	E5	+	defb	0e5h	*	
04C3	E5	+	defb	0e5h		
0404	55	+	defb	0e5h		
0405	E5	+	defo	0e5h		
0405	ES	+	defb	0e5h		
04C7	E5	+	defb	0e5h		
04C8	ES	+	defb	0e5h		
04C9	E5	+	defb	0e5h		
04CA	ES	÷	defb	0e5h		
04CB	[ ]	+ 1	defb	0e5h		
04EC		+	defb	0e5h	*	
04CD	E5	+	defb	0e5h	4	
04CE	E5	+	defb	0e5h		
04CF	E5	+	defb	0e5h		
04D0	E5	+	defb	0e5h		
04D1	E5	+	defb	0e5h		
04D2	E5	+	defb	0e5h		
04D3	E5	+	defb	0e5h	=	
0404	E5	+	defb	0e5h	,	
04D5	E5	+	defb	0e5h	7	
0405	E5	+	defh	0e5h	2	
CHEAT (IT)	rate.		A 2017 4 3 d	MCCART.	¥	

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Flanov Dis	sk Formatter	for	NE CP/M 2.2	MACR	0-80 3.36	17-Mar-80	PAGE	1-11
			Genova - Last					
ma a 7 s s mass s				1701				
04D7	E5		+	defb	0e5h			
04D8	ES		+	defb	0e5h	B.		
0409	E5		÷	defb				
04DA	E5		+	defb	0e5h			
04DB	E5		+	defb	0e5h			
04DC	E5		÷	defb	0e5h	¥ .		
OADD	E5		+	defb	0e5h	:		
04DE	55		÷	defb				
04DF	E5		+	defb				
04E0	E5		4	defb				
04E1	E5		+	defb				
04E2	E5		+	defb				
04E3	E5		+	defb				
04E4	E5		+	defb				
04E5	E5		+	defb				
04E5	E5		+	defb	. 0e5h			
04E7	E5		+	defb	0e5h			
04E8	E5		+	defb				
04E9	E5		+	defb				
04EA	E5		+	defb		5		
04EB	E5		+	defb		1		
04EC	ES		+	defb				
04ED	E5		+	defb	0e5h			
04EE	E5		+	defb		1		
04EF	E5		+	defb				
04F0	E5		+	defb		3		
04F1	E5		+	defb	0e5h			
04F2	E5		+	defb		1		
04F3	E5		+	defb		2		
04F4	E5		+	defb		1		
04F5	E5		+	defb				
	E5		+	defb	0e5h			
04F6			+	defb		7		
04F7	E5					7		
04F8	E5		÷ ÷	defb	0e5h 0e5h			
04F9	E5		+	defb		-		
04FA	E5			defb		7		
04FB	E5		+	defb	0e5h	1		
04FC	E5		+	defb		-		
04FD	E5		+	defb	0e5h	3		
04FE	E5		+	defb	0e5h	-		
04FF	E5		+	defb	0e5h			
0500	E5		+	defb	0e5h	-		
0501	E5		+	defb	0e5h	,		
0502	E5		+	defb	0e5h	1		
0503	E5		+	defb	0e5h	4		
0504	E5		+	defb	0e5h	*		
0505	E5		+	defb	0e5h	7		
0506	E5		+	defb	0e5h	•		
0507			+	defb	0e5h	,		
0508	55		+	defb	0e5h	9		
0509	E5		+	defb	0e5h	1		
050A	E5		+	defb	0e5h			
050B	E5		+	defb	0e5h	# 1		
050C	E5		+	defb	0e5h	5		
050D	E5		+	defb	0e5h	# 1		
050E	E5		+	defb	0e5h			
050F	E5		+	defb	0e5h	7		
0510	FS		+	deth	0e5h	3		

	sk Formatter for 1984 Studio Lo,					PAGE	1-12
				p. phy			
0511	E5	+	defb	0e5h	;		
0512	E5	+	defb	0e5h	7		
0513	E5	4	defb	0e5h	;		
0514	E5	÷	defb	0e5h	*		
0515	E5	+	defb	0e5h	*		
0516	E5	+	defb	0e5h	*		
0517	E5	+	defb	0e5h	÷		
0518	85	+	defb	0e5h	*		
0519	E5	+	defb	0e5h	÷		
051A	E5	+	defb	0e5h			
0518	E5	+	defb	0e5h	7		
0510	25	+	defb	0e5h	7		
0510	E5	+	defb	0e5h	÷		
051E	E5	+	defb	0e5h	†		
051F	E5	+	defb	0e5h	5		
0520	E5	+	defb	0e5h	*		
0521	E5	÷	defb	0e5h	;		
0522	E5	+	defb	0e5h	*		
0523	E5	+	defb	0e5h	* *		
0524	E5	+	defb	0e5h			
0525	E5	+	defb	0e5h	;		
0526	E5	4	defb	0e5h	7		
0527	E5	÷	defb	0e5h	;		
0528	E5	+	defb	0e5h	* *		
0529	E5	+	defb	0e5h	#. 19		
052A	£5	+	defb	0e5h	*		
0528	E5	+	defb	0e5h	5 5		
0520	£5	+	defb	0e5h	÷		
0520	E5	+	defb	0e5h	# 7		
052E	E5	+	defb	0e5h			
052F	E5	+	defo	0e5h	7		
0530	E5	÷	defb	0e5h	*		
0531	E5	+	defà	0e5h	3		
0532	E5	+	defb	0e5h	* 1		
0533	E5	+	defb	0e5h	-		
0534	E5	+	defb .	0e5h	* *		
0535	E5	+	defb	0e5h	* 1		
0536	E5	+	defb	0e5h	7		
0537	ES	+	defb	0e5h	* *		
0538	E5	+	defb	0e5h	* *		
0539	E5	+	defb	0e5h	3 1		
053A	E5	+	defb	0e5h	*		
0538	E5	+_	defb	0e5h	# n		
053C	E5	+	defb	0e5h	a 1		
053D	£5	+	defb	0e5h	* 7		
053E	E5	+	defb	0e5h	*		
053F	E5	+	defb	0e5h	* ·		
0540	E5	+	defb	0e5h	*		
0541	E5	+	defb	0e5h	*		
0542	E5	÷	defb	0e5h	* 7		
0543	E5	+	defb	0e5h	* 3		
0544	E5	+	defb	0e5h	* 5		
0545	E5	+	defb	0e5h	* *		
0548	E5	+	defb	0e5h	<b>5</b>		
0547	E5	+	defb	0e5h	¥ 7		
0548	E5	+	defb	0e5h	* 2		
0549	ES	+	defb	0e5h	w 1		
0540	1-5	4	defh	0e5h			

Floory Di	sk Formatter for	NE CP/M 2.2	MACRO-8	0 3.36	17-Mar-80	PAGE	1-13
Copyright	: 1984 Studio La.	Genova - Last	rev 15/	08/84 09	1:38		
		2003					
054B	E5	+	defb	0e5h	;		
054C	E5	+	defb	0e5h			
054D	E5	+	defb	0e5h	n 2		
054E	E5	+	defb	0e5h			
054F	E5	+	defb	0e5h	*		20
0550	E5	4	defb	0e5h	*		
0551	E5	+	defb	0e5h	*		
0552	E5	+	defb	0e5h			
0553	E5	+	defb	0e5h	* 1		
0554	E5	+	defb	0e5h	1		
0555	E5	÷	defb	0e5h	a a		
0555	£5	÷	defb	0e5h	, a		
0557	E5	+	defb	0e5h	8.5		
0558	£5	+	defb	0e5h			
0559	E5	+	defb	0e5h			
055A	E5	+	defb	0e5h	:		
055B	E5	+	defb	0e5h	n 9		
055C	E5	+	defb	0e5h			
0550	E5	+	defb	0e5h			
055E	E5	+	defb	0e5h	;		
		5					
055F	F7		defb	Of7h		2 CRC's wri	tten
			rept	14	N 2	GAP IV (14	bytes 'ff')
			defb	255			
			endm				
0560	FF	+	defb	255			
0561	FF	+	defb	255			
0562	FF	+	defb	255	2		
0563	FF	+	defb	255	;		
0564	FF	+	defb	255	9.7	(B)	
0565	FF	+	defb	255	3		
0566	FF	+	cefb	255			
0567	FF	+	defb	255	*		
0568	FF	÷	defb	255			
0569	FF	+	defb	255	*		
056A	FF	+	defb	255	5		
056B	FF	+	defb	255	*		
056C	FF	+	defb	255	1		
056D	FF	+	defb	255	*		
			*				
			pade				

: ¥ ¥ FDDFORM entry point · + 中 056E fodform: 056E 11 0280 de IniMsa : DE = Sion On and Mode message 0571 CD FOIE call print : print it Se15. M: 0574 0574 de, Questo : print Mso & receat 11 02BB 0577 CD FOIE call print : orint it RdiCBf 057A CD 0814 call : read a char 1d a. 1 M : default multiple 0570 3E 4D z.Sel.MM 057F 28 13 : yes. set it 17 0581 10 a. (de) 10 : cet answer CB AF 0582 res 5. a ; convert up-case 0584 FE 4D 2 16 3 : Multiple ? CD 0586 28 OC z, Sel. MM : yes 17 FE 53 2 57 : Single ? 0588 CO 058A 11 0387 C de, Msa. SM : set Mso otr 0580 28 08 z,Sel.SM \* VES 17 058F CD 087D call errino : beep & backspace SelS.M 0592 18 E0 17 : repeat 0594 Sel.MM: 0594 11 03C0 de. Msa. MM : Multiple Mso ic Sel.SM: 0597 (FMode),a 0597 32 0127 ld : save mode 059A CD FOIE call orint ; print mode CrlF ; and cr, lf 059D CD 080E call 0500 SelS.D: 05A0 11 02EC de Questi : Side Mso ld 05A3 CD FOIE print ; print it call RdiCBf 05A6 CD 0814 call ; read a char a, 'S' 0599 3E 53 16 : default sinole 05AB 28 13 z. Sel. SS \* yes, set it 10 18 a. (de) 05AD id : oet answer 05AE CB AF 5. a : convert up-case res 7 S3 0580 FE 53 CD : Sinole ? 0582 28 OC z.Sel.SS : Yes 11 05B4 FE 44 2 1)3 : Double ? CD 11 03CB 0586 de. Msc. DS : set Msa otr lei 0589 28 08 11 z.Sel.DS : yes 05BB CD 087D call errino : been & backspace 05BE SelS.D 18 E0 15 : receat 05C0 Sel. 55: 0500 de, Msg. SS : Single Side 11 03B7 ld Sel.DS: 05C3 05C3 32 0128 10 (FSides), a : save Sides flag : print sincle or double side 0506 CD FOIE call arint

-					
0509	CD 080E		call	CrLF	; and cr, lf
		*			
		5			
araa		: Sel4.8:			
0500	44 A24D	3614.04		dm Domesto	: 80 or 40 Msg
OSCC	11 031D		ld call	de, Quest2 print	: print it
050F	CD F01E CD 0814		call	Rd1CBf	: read a char
05D2 05D5	3E 34		ld	a, 747	: default 40
05D7	28 13			z, Sel. 40	t yes, set it
05D9	20 13 1A		]r ld	a, (de)	: get answer
05DA	FE 34		CO	a, tue;	: 40 ?
05DC	28 OE		ir	z,5el.40	: yes
05DE	FE 38		CO	2,361.40	. yes : 80 ?
05E0	11 03D9		ld	de, Msq.80	set Mso otr
05E3	3E 50		ld	a.80	: 80 tracks
05E5			3 %	z, Sel. 80	; yes
05E7			call	errino	; been & backspace
05EA	18 EO		jr	Se14.8	: repeat
Udlari	20 60			CALL S. W. C.	
05EC		Sel. 40:	*		
05EC	11 03D4		ld	de.Mso.40	: 40 tracks
05EF	3E 28		ld	a,40	± ,
05F1		Sel.80:			
05F1	32 0129		ld	(FTrks), a	: save # trks
05F4	CD FO1E		call	print	
05F7	CD 080E		call	CrLF	; and cr. lf
		\$			
		:			
05FA		SelA.B:			
05FA	11 0350		ld	de, Quest3	: A or B Msg
05FD			call	orint	; print it
0600	CD 0814		call	Rd1CBf	; read a char
0603	3E 42		10	a, 'B'	; default B
0605	28 13		34	z, Sel. B	; yes, set it
0507	1A		1.0	a, (de)	; get answer
0508	CB AF		res	5, a	; convert up-case
060A			cb	, B,	; B ?
0600	28 OC		J.P	z,Sel.B	; yes
060E	FE 41		cb		; A ?
0510			ld	de, Msq. A	; set Mso otr
0613	28 08		Jr 11	z, Sel. A	t yes
0615	CD 087D		call	errino SelA.B	; been & backspace
0618	18 E0		11	amin' D	; reseat
061A		Sel.B:			
0618	11 03E2	MCTFDs	ld	de, Msg. B	: Drive B:
0610	14 Villed	Sel.A:	4.64	May Profes W	A THEN ALL
0610	32 03A1	M24 V ET 4	ld	(disknum),a	: set disk code
0620	CD FOIE		call	oring	, and mast come
0623	CD 080E		call	CTLF	; and cr, lf
VULU	un vuvu	4	20 to 10	are it must	7 20100 2014 41
0626		SelYES:			
0626	11 0381		ld	de,Quest4	: Confirm Msq
0629	CD FOIE		call	print	; print it
062C	3E 03		ld	а, З	; 3 chars
150 30	715 A A A		ffen.	BHCBUF	* voor anchor

Floopy Disk Formatter for NE CP/M 2.2 MACRO-80 3.36 17-Mar-80 PAGE 1-16 Copyright 1984 Studio Lg. Genova - Last rev 15/08/84 09:38

0631	FE	03		co	3	* 7	len('YES') ?
0633	C2	0772		30	nz, EndFmt	*	no, abort
0535	47			ld	b, a		3 char
0637	21	03E6		ld	hl, MsgYES	* 7	check Msk
063A	18		CKYES:	10	a, (de)		get a char
0638	CB	AF		res	5, a	1 2	uo-case
0630	PE			CO	(nl)	# 7	eoual
063E	C2	0772		10	nz, EndFmt		no. abort
0641	10	F7		dinz	CKYES	3	all char
				H			
				bade			

```
:* F O R M
                                    at this point all parameters are entried
                             0643
                             FORM:
0543
       21 0023
                                    10
                                            hl.msoiadd
                                                            : message i cursor address
0646
       11 03E9
                                    ld
                                            de, fvisual
0549
       CD F024
                                                           ; orint 'FORMATTING'
                                    call
                                            printat
064C
       21 OE1F
                                    10
                                            hl.msq2add
                                                           : @mso2add
054F
       11 0409
                                    10
                                            de, vsidtrk
                                                            : orint SIDE TRACK msc addrs.
0652
       CD F024
                                    call
                                            orintat
0655
       AF
                                    MOT
                                                           : clear accumulator
                                            a
0656
       32 0448
                                    ld
                                            (ID. Trk).a
                                                           : set track 0 in ID fields
0659
       3A 03A1
                                            a (disknum)
                                                           : load disk code
                                    10
065C
       D6 40
                                    sub
                                            7 63
                                                           : Disk A=1. disk B=2 and side O
065E
       32 0126
                                    10
                                            (DskSid).a
                                                           : load disk and side para
       D3 D6
0661
                                    out
                                            (fddlch),a
                                                           ; select drive and side 0
0563
       3E 02
                                    ld
                                                           : load fdd restore command code
                                            a. fodrest
0665
       D3 D0
                                            (fddcmd).a
                                    out
                                                           : send out to 1771
0667
                             FmmNxt:
0667
       AF
                                                           : clear accumulator
                                    YOR
0668
       32 0449
                                            (ID. Sid).a
                                                           : set side 0 in ID fields
056B
       3A 0126
                                    ld
                                            a. (DskSid)
                                                           : cet drive code
066E
       D3 D6
                             FmSd:
                                    out
                                            (fddlch).a
                                                           : set side 0
0570
                             FNxtSd:
0570
       3E 01
                                                           : A = 1
                                    10
                                            a. 1
0672
       32 044A
                                    10
                                            (ID. Sec), a
                                                          : set sector 1
0675
       CD 07EE
                                    call
                                            waitfd
                                                           : wait until end command
0678
       B7
                                    or
                                                           : zero in accumulator ?
0679
       C2 07B3
                                            nz, timeout
                                                           : if no zero then disk offline
                                    10
067C
       CD 0798
                                    call
                                            sidtrkvis
                                                           : visualize Track and Side
067F
       21 0419
                                    ld
                                            hl.oreamble
                                                           : H.L = preamble table (40 bytes 'ff')
0682
       01 2807
                                    lo
                                            bc.0+(40 * 256) + fdddat: B= 40 bytes counter
                                                           : C = fod data register
0685
       3E F4
                                    10
                                            a. fodwtrk
                                                           : load write track command code
       D3 D0
0687
                                    out
                                            (fddcmd).a
                                                           send out to 1771
0689
       CD 07E9
                                    call
                                            fodelav
                                                           : wait aproax 56 microS
068C
                             wtoreamb:
       DB DO
06BC
                                            a. (fodsts)
                                                          : load fod status
                                    111
068E
       CB 4F
                                                           : test DRG bit
                                    bit
                                            i,a
       28 FA
0690
                                                           ; wait if no DRQ
                                    11
                                            z.wtoreamb
0692
       ED A3
                                    out:
                                                           : write one byte
0694
       20 F6
                                            nz_wtpreamb
                                                           : repeat until all 40 bytes are output
                                    17
                            FmSect:
0696
                                                           : H.L = ID field data table
0696
       21 0441
                                    10
                                            hl, idfield
                                    : total byte to output are 301.
       06 00
0699
                                            b. 0
                                                           : 256 bytes to 1771
```

0698		wtidfie	ld:		
0598	DB DO	77.7 22.0 1 10.20		a, (fddsts)	: load fdd status
069D	CB 4F			1.8	test DRG bit
0696	28 FA			z, wtidfield	: wait if no DRG
	ED A3		outi	E- #01017E10	: write one byte
06A1					Figure 1 to the control of the contr
06A3	20 F6		31	nz, wtidfield	; repeat until all 256 bytes are output
****		‡	40.00	t may per	TO THE HUMBER OF THE PROPERTY OF THE PROPERTY AND THE PROPERTY OF THE PROPERTY
05A5	06 20	Territore son services	ld	b,301-256	; load rimanents bytes to 1771
06A7		wtlidfi		DE PERMENDIANOSEO ES	
0697	DB DO		in		; load fdd status
(ASA9	CB 4F		bit	1,a	: test DRQ bit
05AB	28 FA		11	z, wtlidfield	; wait if no DRQ
06AD	ED A3		outi		; write one byte
06AF	20 F6		11	nz, wtlidfield	: repeat until all 45 bytes are output
		7			
		7.7	now.	all 301 bytes an	e output to 1771
		# 1	200 (200)	Contract distance in the contract of the	
0681	3A 044A		ld	a. (ID. Sec)	: load actual sector number
06B4	30		inc	а	: inc. sector number
0685	32 044A			(ID.Sec).a	: set next sector number
0688	FE 08		CD	11	: last sector has been written ?
06BA	G2 0696		10	nz.FmSect	no, then write next sector
06BD	DE 0030	endtrk:	Mary Co.	Fide of E. Hiterholde O	The state of the s
06BD	DB DO	CIMPATHS	in	a. (fddsts)	: load fdd status
06BF	CB 47		bit	0, a	: end track?
06DF	28 07			z, NextSid	: yes, then go to mext track
0603	3E FF			a. 255	: load byte "ff"
	D3 D7				: write to 1771 data register
0605				endtrk	: receat until end track
0607	C3 06BD	Name of the second	jp	EUCCLA	; repeat until end track
06CA	20 24	NextSic		. /5//	- Year fill shakus
06DA	DB DO			a. (fddsts)	: load fdd status
0660	E6 E7			111001115	; write track error?
06CE	C2 07AE		Эb	nz, fdforerr hl, ID. Sid	; yes, then goto error
06D1	21 0449		ld ld	ni, iv.bio	; point current side
0504	39 0128				7
05D7	FE 53		CO	2 G2	; Single Side ?
	CA 06E8		10	z,NextTrk	; yes, next track
05DC	AF		KOT	ā	: zero on a
OSDD	86		0 P	(h1)	: check with current side
06DE	20 08		J.P	nz, NextTrk	; side 1, then next trk
06E0	34		inc	(hi)	: else set side 1
06E1	3A 0126		ld	a,(DskSid)	; load disk number
06E4	F6 20	1	0 P	d000000p	; set side one
0656	18 86		31	FmSd	: format side 1
06E8		NextTrk	5		
0558	21 0129		ld	hl, FTrks	: point to # of tracks
06EB	3A 0448		ld	a. (ID. Trk)	; load current track #
06EE	30		inc	a	; point to next track
06EF	BE		cp	(h1)	; end track ?
06F0	28 09		15	z, dskverify	; yes, then go to end
06F2	32 0448		ld	(ID. Trk), a	; set next track
		*			
06F5	3E 52		ld	a, fddsin	; load fdd steo in
06F7	D3 D0		out	(fddcmd),a	send out to 1771
06F9	03 0667		1p	FmmNxt	count for next track
J-170	ATTACH CONTRACTOR	*	9050	AND CARLES	THE THREE LINES ACCOUNTS NEGOTIANS

1-19

```
\overline{\phantom{a}}_{1} + \overline{\phantom{a}}_{2} + \overline{\phantom{a}}_{3} + \overline{\phantom{a}}_{3} + \overline{\phantom{a}}_{4} + \overline{\phantom{a}}_{3} + \overline{\phantom{a}}_{4} + \overline{\phantom{a}}_{3} + \overline{\phantom{a}}_{4} + \overline{\phantom{a}}_{3} + \overline{\phantom{a}}_{4} + 
                                                                                                   * VERIFY
                                                                                                                           Check all sector on disk
                                                                                                   06FC
                                                                                                  dskyerify:
06FC
                          21 0023
                                                                                                                            10
                                                                                                                                                      hl.msgiadd
                                                                                                                                                                                                         : messace i cursor address
05FF
                          11 03F9
                                                                                                                                                      de, vvisual
                                                                                                                                                                                                         : DE -) verify message
                                                                                                                            10
0702
                          CD F024
                                                                                                                           call
                                                                                                                                                      printat
                                                                                                                                                                                                         : print it at HL
0705
                          AF
                                                                                                                                                                                                         : start with
                                                                                                                            KOT
0705
                          32 0235
                                                                                                                            ld
                                                                                                                                                      (VerTrk), a
                                                                                                                                                                                                                                track 00
0709
                                                                                                  VNxTrk#
0709
                          3A 0126
                                                                                                                                                      a. (DskSid)
                                                                                                                                                                                                         : load disk and side
070C
                                                                                                  VNxSd:
070C
                          30
                                                                                                                           dec
                                                                                                                                                                                                         t disk A = 0, B = 1
                                                                                                                                                      3
0700
                          32 0234
                                                                                                                                                                                                         : start disk and side
                                                                                                                            10
                                                                                                                                                      (VerDsk).a
                          3E 01
0710
                                                                                                                            10
                                                                                                                                                      a. 1
                                                                                                                                                      (VerSec), a
0712
                          32 0237
                                                                                                                            ld
                                                                                                                                                                                                        : start sector 1
0715
                          11 0129
                                                                                                                            lc
                                                                                                                                                      de, xlt
                                                                                                                                                                                                         : DE -) translate table
0718
                                                                                                  vervis:
0718
                          3A 0234
                                                                                                                            10
                                                                                                                                                      a. (VerDsk)
                                                                                                                                                                                                         : load verify disk and side
071B
                         E6 10
                                                                                                                            and
                                                                                                                                                      00010000Ь
                                                                                                                                                                                                         : mask side
                                                                                                                                                                                                         ; jmp if side 0
071D
                          28 02
                                                                                                                                                      z. very00
                                                                                                                            10
071F
                          JE 01
                                                                                                                                                                                                         : set side 1
                                                                                                                            ld
                                                                                                                                                      ā. 1
                                                                                                  verv00:
0721
0721
                          1)5
                                                                                                                            Dush
                                                                                                                                                      de
                                                                                                                                                                                                         : save xlt pointer
0722
                          32 0449
                                                                                                                            id
                                                                                                                                                      (ID.Sid).a
                                                                                                                                                                                                        : set ID side for visualization
0725
                          3A 0235
                                                                                                                                                      a. (VerTrk)
                                                                                                                                                                                                        : load verify track (only low byte)
                                                                                                                                                      (ID. Trk).a
                                                                                                                                                                                                         : set ID side for visualization
0728
                          32 0448
                                                                                                                           ld
0728
                          CD 07B8
                                                                                                                           call
                                                                                                                                                      sidtrkvis
                                                                                                                                                                                                         : visualize side and track
072E
                          21 0234
                                                                                                                           ld
                                                                                                                                                      hl.vertab
                                                                                                                                                                                                         ; verify tab para
0731
                          CD F015
                                                                                                                           call
                                                                                                                                                                                                         : read 256 bytes
                                                                                                                                                      fdiod
                          B7
                                                                                                                                                                                                         : read error ?
0734
                                                                                                                            or
0735
                          20 5D
                                                                                                                                                                                                         : yes. abort
                                                                                                                                                      nz, readerr
                                                                                                                            17
0737
                          21 0134
                                                                                                                                                      hl, verbuff
                                                                                                                                                                                                         ; HL -> verify buffer
                                                                                                                            1d
073A
                          06 00
                                                                                                                                                      0.0
                                                                                                                                                                                                         : num. byte to verify (256)
                                                                                                                            10
073C
                                                                                                  verif00:
073C
                          7E
                                                                                                                            10
                                                                                                                                                      a. (hl)
                                                                                                                                                                                                         : load one byte
0730
                          FE E5
                                                                                                                                                      0e5h
                                                                                                                                                                                                         : IBM standard data ?
                                                                                                                            CO
073F
                                                                                                                                                                                                         : ves. then count for next data
                          20 68
                                                                                                                            11
                                                                                                                                                      nz, vererr
                                                                                                                                                                                                         : point to next data
0741
                          23
                                                                                                                            inc
                                                                                                                                                      hl
0742
                          10 F8
                                                                                                                                                      verif00
                                                                                                                                                                                                         : loop until finished
                                                                                                                           dinz
0744
                                                                                                  endverify:
                                                                                                                                                                                                         : DE -> xlt pointer
0744
                          Di
                                                                                                                            000
0745
                          19
                                                                                                                            ld
                                                                                                                                                      a. (de)
                                                                                                                                                                                                         : load verify sector number
0746
                          13
                                                                                                                                                                                                         : point to next sector
                                                                                                                            1790
                          32 0237
                                                                                                                                                      (VerSec), a
                                                                                                                                                                                                        : set mext sector
0747
                                                                                                                            id
0749
                                                                                                                                                                                                        : end track ?
                         B7
                                                                                                                           OF
0748
                         20 CB
                                                                                                                            11
                                                                                                                                                      nz, vervis
                                                                                                                                                                                                        : no. then count
                                                                                                                                                                                                         : get fmt mode
                          3A 0128
                                                                                                                                                      a, (Fsides)
0740
                                                                                                                            ld
                                                                                                                                                      2 (3)
                          FE 53
                                                                                                                                                                                                         : Simole Side ?
0750
                                                                                                                            CD
                                                                                                                                                      z. VerNTrk
                                                                                                                                                                                                         ; yes, next track
 0752
                          CR 0764
                                                                                                                            10
```

a (Verbek)

10

0.755

TO APTA

" net side & disk

```
Floody Disk Formatter for NE CP/M 2.2 MACRO-80 3.36 17-Mar-80
                                                                                   1-20
Copyright 1984 Studio Lg. Genova - Last rev 15/08/84 09:38
 0758
          E6 10
                                                  00010000b
                                         and
                                                                  : mask side
 075A
          20 08
                                                 nz. VerNTrk
                                                                  : side 1. then next trk
                                         31
  075C
          3A 0126
                                                  a. (DskSid)
                                                                  : oet disk code
                                         10
                                                  00010000b
  075F
          F6 10
                                                                  : set side 1
                                         or
                                                                  : verify side 1
  0761
          C3 070C
                                                  VNKSd
                                         10
  0764
                                 VerNTrk:
 0764
          21 0129
                                                  hl.Firks
                                                                  : point to # of tracks
                                         10
 0767
          3A 0235
                                         10
                                                  a. (VerTrk)
                                                                  : load current track #
  076A
                                                                  : point to next track
          30
                                         inc
  0768
          BE
                                         CD
                                                  (h1)
                                                                  : end track ?
          32 0235
                                                                  : set next track
  076C
                                         10
                                                  (VerTrk).a
                                                  nz, VNxTrk
                                                                  : repeat if not last track
 076F
          C2 0709
                                         10
                                         : End of Formatting
                                          : short delay and do to format another
 0772
                                 Endfmt:
  0772
          05 02
                                                                  : set soft timer 2
                                                  b. 2
  0774
                                 endan00:
  0774
         11 0000
                                         lđ
                                                  ce. 0
                                                                  : set soft timer 1
  0777
                                 endanil:
  0777
          18
                                                                  : timer 1 down
                                         dec
                                                  de
          79
  0778
                                         1d
                                                  a.c
  0779
          B3
                                                                  : zero for timer 1 ?
  077A
          20 FB
                                                                · ; no. then count
                                                  nz, endanii
                                         JP
  077C
          10 F6
                                                  endan00
                                                                  : timer 2 down and receat until timer 2 = 0
                                         danz
  077E
                                 GoFMt:
  077E
          3A 0127
                                         10
                                                  a. (FMode)
                                                                  : check for Simole or Multiple Mode
                                                  181
 0781
          FE 53
                                         CB
                                                                  : Sincle
          CA 056E
                                                  z,fddform
  0783
                                                                          start from beggining
                                         10
  0786
          21 0700
                                         ld
                                                  hl, Confadd
                                                                  : Cursor @ 8.1
  0789
          CD F027
                                                  前OVCUPS
                                         call
                                                                  : WOA6
  078C
          0E 06
                                         10
                                                  C. 6
                                                                  : clear to end of screen
  078E
          CD F006
                                         call
                                                  cout
                                                                  : do it
  0791
                                                  Selves
                                                                  : else Multiple
          C3 0626
                                         10
  0794
                                 readerri
                                                                  : DE -) read error messace
  0794
          11 0259
                                         10
                                                  de, rdermsd
  0797
                                 rder00:
                                                                  : error message address
  0797
          21 1019
                                         id
                                                  hl.ermsqadd
  079A
          CD F024
                                         call
                                                  orintat
                                                                  : print it
                                                                   ; print 'Hit any key'
  079D
          11 0270
                                         lo
                                                  de. wterr
  0780
          CD FOIE
                                         call
                                                  orint
  0783
          CD F003
                                         call
                                                  cin
  0786
          D1
                                         000
                                                  Q5
                                                                   : restore xlt pointer
          18 D5
                                                  GoFint
                                                                   : oo to format
  07A7
                                          11
  07A9
                                 vererr:
  07A9
          11 026B
                                                                  ; DE -) verify error message
                                         lø
                                                  de, verrmso
  07AC
          18 E9
                                                  rder00
                                                                   ; print it and retry
                                         11
  07AE
                                 fdforerr:
  07AE
                                                  de, fateraso
                                                                   : DE = format error messace
          11 024A
                                         ld
```

rder00

10

timonut :

07B1

0757

18 E4

: print it

```
Copyright 1984 Studio Lg. Genova - Last rev 15/08/84 09:38
 0783
          11 023B
                                         10
                                                 de.oflmso
                                                                : DE = offline message
 0786
          18 DF
                                                 rder00
                                                                 ; print it
                                         10
                                 * Print current Track # and Side #
 07B8
                                sidtrkvis:
                                         : visualize track and side
 07B8
         21 0E25
                                        ld
                                                 hl, thumadd
                                                                : track video adrr.
                                                                 : move cursor
 07BB
         CD F027
                                                 MOVCUES
                                        call
 07BE
         3A 0448
                                        10
                                                 a, (ID. Trk)
                                                                : load ID track number
 07C1
         06 FF
                                         10
                                                 b. 255
                                                                 : set decimal counter
 07C3
                                sidtr00:
 0703
                                                                 : inc. decimal dioit
         04
                                         inc
                                                                 : A=A-10
 07C4
         D6 09
                                         sub
                                                                 : count if A = 0
 0706
         30 FB
                                         15
                                                 nc.sidtr00
 0708
         C6 0A
                                         add
                                                 a. 10
                                                                 : at this point A = 1sd, B = msd (BCD)
 07CA
         F5
                                                 af
                                                                 : save lsd
                                         push
 07CB
          78
                                         10
                                                                 : load msd
                                                 a.b
 07CC
          C6 30
                                                 a, 102
                                                                 : convert ascii
                                         add
 07CE
          4F
                                        10
                                                 c.a
 07CF
         CD F006
                                        call
                                                 cout
                                                              - : print msd
 07D2
         F1
                                                 af
                                        000
                                                 a, 707
 07D3
         C6 30
                                        add
                                                                 ; convert ascii
 07D5
         4F
                                        10
                                                 c,a
                                                                 ; print 1sd
 0706
         CD F006
                                        call
                                                 cout
 07D9
          21 0E2F
                                        ld
                                                 hl, snumadd
                                                                 : side video addr.
                                        call
                                                 moveurs
                                                                 : move cursor
  07DC
         CD F027
 07DF
                                                                 : load ID side number
         3A 0449
                                         10
                                                 a. (ID. Sid)
                                                                 : convert ASCII
  07E2
         C6 30
                                         ado
                                                 a, 102
         ΔF
 07E4
                                         10
                                                 C.a
  07E5
          CD F006
                                         call
                                                 cout
                                                                 : print side 0 or 1
 07E8
                                         ret
                                                                 ; and ret
                                .
  07E9
                                fddelay:
                                         rept
                                                 (so), hl
                                                                 : delay beetwen write command rec.
                                         ex
                                         endm
                                                                 to read status req.
  07E9
                                                 (so), hl
                                                                 : delay beetwen write command reg.
                                         ex
  07EA
          E3
                                                 (so), hl
                                                                 ; delay beetwen write command rep.
                                         PX
  07EB
          E3
                                                 (so), hl
                                                                 : delay beetwen write command rec.
                                         EX
 O7EC
          E3
                                         ex
                                                 (so), hi
                                                                 : delay beetwen write command red.
  07ED
          09
                                         ret
                                waitfd:
 07EE
                                         : wait until fdd busy is reset.
 07EE
          CD 07E9
                                         call
                                                 fddelay
                                                                : wait adroax 56 microS
  07F1
                                                 b. 2
                                                                 : set soft timer
          06 02
                                         10
  07F3
                                wait00:
  07F3
          11 0000
                                                 de. 0
                                                                 ; for aproax five seconds
 07F6
                                wait011
                                                 a. (fddsts)
                                                                 : input to fdd status
  07F6
          DB DO
                                         in
          CB 47
                                                                 : test busy bit
  07F8
                                         bit
                                                 0, a
                                                 z.wait02
```

11

Henry

1-21

: jump if no command is in propress

Flopov Disk Formatter for NE CP/M 2.2 MACRO-80 3.36 17-Mar-80

07FA

**ムフロハ** 

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```
Flopov Disk Formatter for NE CP/M 2.2 MACRO-80 3.36 17-Mar-80
                                                                   PAGE
                                                                           1-22
Copyright 1984 Studio Lg. Genova - Last rev 15/08/84 09:38
 07FD
         79
                                     10
                                             a, d
                                                            ; timer down
 07FE
         B3
                                     O.F
                                             E
 07FF
         20 F5
                                             mz.wait01
                                     15
 0801
         05
                                     dec
 0802
         20 EF
                                             nz.wait00
                                     38
                                                           ; time out
 0804
                              ofline:
 0804
         3E D0
                                     10
                                             a.fddrst
                                                            : reset fdd controller
 0806
         D3 D0
                                             (fddcmd).a
                                                            : exec. command
                                     out
 8080
         3E 01
                                     10
                                             a.00000001b
                                                           : set time-out bit error
 080A
                                     ret
                                                            ; and ret
                              wait02:
 080B
 OBOB
         47
                                                            : save fdd status in B register
                                     ld
                                             b. a
         AF
 0800
                                                            : clear accumulator for
                                     XOF
 0800
         09
                                     ret
                                                            : normal return
                              * * Print CR. LF & Attr Off
                              080E
                             CrLf:
 080E
                                     10
                                            de. CrLfOF
                                                            : print
         11 02B6
                                                            : & ret
 0811
         C3 FOIE
                                     30
                                             print
                               * Console input function
                               ; entry with a=maxchar
 0814
         3E 01
                              Rd1CBf: 1d
                                             a. 1
 0816
                              RdCBuf:
 0815
         21 0887
                                     ld
                                             hl.CBuf
                                                            : opint to console buffer
 0819
                                     10
                                             (hl), a
                                                            ; # of char
         77
 081A
         23
                                     inc
                                             hl
 081B
         35 00
                                             (h1).0
                                                            : set 0 char readed
 081D
         23
                                             nl
                                     INC
 081E
         E5
                                     Dush
                                             nl
                                                            : save
 081F
                              WaitKey:
 081F
         CD F003
                                                            ; wait a char
                                     call
                                             CIM
                                             101-181
 0822
         FE 03
                                                            : Is it a ~C?
                                     00
         CA 0000
 0824
                                             2.0
                                                            ; yes, abort
                                     10
                                                            ; Is it a CR ?
 0827
         FE OD
                                             CP
                                     00
 0829
         28 3A
                                     35
                                             z, endino
                                                            : Is it a BS ?
 082B
         FE 08
                                     00
                                             backsp
 0820
         20 1A
                                             nz, cont
                                     115
 082F
         3E 00
                                     10
                                             a. 0
                                             hi, CBuf+1
                                                            : point to chars
 0831
         21 0888
                                     10
                                             (h1)
                                                            there is a char ?
 0834
         B6
                                     OF
 0835
         28 27
                                             z. Chen
                                                            ; no, error
                                     Jř
         35
                             B51:
 0837
                                             (h1)
                                                            : dec # of char
                                     dec
 0838
         D1
                                                            : restore pointer
                                     000
                                             de
 0839
        18
                                     dec
                                             08
                                                           ; back step
 083A
         D5
                                     push
                                             de
                                                            : save
  0838
         0E 08
                                                            : print backspace
                                     10
                                             c, backso
```

call

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Cout

n enang

- orint space

083D

OAAO

CD F006

OF 20

```
Floody Disk Formatter for NE CP/M 2.2 MACRO-80 3.36 17-Mar-80
                                                                 PAGE
                                                                          1-23
Copyright 1984 Studio Lg. Genova - Last rev 15/08/84 09:38
 0842
         CD F006
                                     call
                                            cout
 0845
         0E 08
                                     lo
                                            c. backso
                                                           t print backspace and
 0847
         18 17
                                     11
                                            CCout
                                                           : wait another key
                                                           * {2 7
                                            3 3
 0849
         FE 20
                             cont:
                                     CD
 084B
         38 D2
                                            c. WaitKey
                                     J.F
                                                           *
         AF
 0840
                                     ld
                                            c, a
                                                           : save char
 084E
         21 0888
                                     10
                                            hl.Cbuf+1
                                                           : point to #char
 0851
                                            a. (hl)
                                                           : oet it
         7E
                                     10
 0852
         28
                                            hi
                                     dec
                                                           : point to maxchar
 0853
         BE
                                            (hl)
                                     CD
 0854
         30 08
                                     77
                                            nc. Chea
                                                          : error if )=max
 0856
         23
                                            hl
                                     inc
                                                           : point to #char
 0857
         34
                                            (hl)
                                     inc
                                                           : increment
 0858
         Ei
                                     000
                                            17]
                                                           : restore buffer pointer
 0859
         71
                                     10
                                            (h1),c
                                                           ; save char
 085A
         23
                                     inc
                                            hl
 085B
         55
                                     oush
                                            hì
                                                           : resave
 085C
         18 02
                                            CCout
                                     JP
                                                           : print it
 085E
         0E 07
                             Chen:
                                     10
                                            c. bell
                                                           ; print bell
 0860
                             CCout:
                                                           : Print char
 0860
         CD F006
                                     call
                                            cout
                                                           : & return
 0863
         18 BA
                                     11
                                            WaitKey
                                                           ; to wait another kev
 0865
                             EndIno:
 0855
         E1
                                            hl
                                                           : buff otr
                                     DOD
 0866
         11 0889
                                     16
                                            de.Cbuf+2
                                                           ; point to char
 0889
         3A 0888
                                            a. (Cbuf+1)
                                                          ; get # of char
 086C
         B7
                                                           : set flag
                                     Or
                                            a
 0860
         £B
                                                           : no char ret
                                     ret
                                            Z
         F5
                                                           : save # char
 086E
                                     Dush
                                            ař
 086F
         D5
                                     push
                                            de
 0870
         47
                                     ld
                                                           : on b
                                            b. a
                                     ld
                                                          : back steo
 0871
         0E 08
                                            c. backso
         C5
 0873
                             Bstep: push
                                            bc
                                                           : save
 0874
         CD FOOG
                                     call
                                            cout
                                                          : print backspace
 0877
         Ci
                                     000
                                            bc
                                                           : restore
 0878
        10 F9
                                            Bsteo
                                     dinz
                                                           : 1000
 087A
         Di
                                     000
                                            de
        F1
 0878
                                     000
                                            帮
                                                           : restore
 087C
         03
                                     ret
                                                           : done
                             : * error on input
                             0870
                             errino:
 0870
        0E 07
                                     10
                                            c.bell
                                                          : been
 087F
        CD F006
                                            cout
                                     call
                                                           : on console
                                                           : start of line
 0882
        OE OD
                                     10
                                            0.00
 0884
         C3 F006
                                            cout
                                     10
                                                           1
```

: Input Buffer

Floppy Disk Formatter for NE CP/M 2.2 MACRD-80 3.36 17-Mar-80 PAGE 1-24 Copyright 1984 Studio Lg, Genova - Last rev 15/08/84 09:38

0887 01 CBuf; defb 1 ; only 1 char 0888 00 defb 0 ; char read 0889 defs 5 ; chars space :

end

100h ; end of floopy disk formatter

## Macros:

Symbols	± ž						
BACKSP	8000	BELL	0007	BOOTRO	F021	BS1	0837
BSTEP	0873	CREB	085E	CRUF	0887	CCOUT	0860
CIN	F003	CKYES	063A	COMPFL	F020	CONFAD	0700
CONT	0849	COPYRI	0000	COUT	F006	CR	000D
CRLF	080E	CRLFOF	02B6	CSTS	F009	DISKNU	03A1
DSKSID	0126	DSKVER	06FC	ENDANO	0774	ENDAN1	0777
ENDFMT	0772	ENDING	0865	ENDMSG	0024	ENDTRK	06BD
ENDVER	0744	ERMSGA	1019	ERRINP	087D	FALSE	0000
FDBUSY	0001	FDDCMD	0000	FDDDAT	00D7	FDDELA	07E9
FDDFOR	056E	FDDLCH	0006	FDDRES	0002	FDDRQ	0002
FDDRST	0000	FDDSEC	00D2	FDDSIN	0052	FDDSTS	0000
FODTAB	0419	FDDTRK	0001	FIDDWTR	00F4	FDFORE	07AE
FDIOD	F015	FDIOS	F012	FDNRDY	0800	FDT1ER	0018
FDT23E	001F	FDWPRT	0040	FFEED	000C	FLASH	0043
FMMNXT	0667	FMODE	0127	FMSD	066E	FMSECT	0696
FMTERM	024A	FNXTSD	0670	FORM	0643	FSIDES	0128
FTRKS	0129	FVISUA	03E9	GOFMT	077E	ID.SEC	044A
ID.SID	0449	ID. TRK	0448	IDFIEL	0441	INIMSG	028D
LF	000A	LOUT	FOOC	LSTS	F00F	MOVCUR	F027
MSG. 40	0304	MSG.80	031)3	MSG. A	OSDE	MSG.B	03E2
MSG. DS	03CB	MSG. MM	0300	MSS.SM	0387	MSG. SS	03B7
MSG1AD	0C23	MSG2AD	0E1F	MSGYES	0386	NEXTSI	06CA
NEXTTR	05E8	MORK	0040	DFLINE	0804	OFLMSG	0238
PFX	0013	PREAMB	0419	PRINT	FOIE	PRINTA	F024
<b>QUESTO</b>	02BB	QUEST1	OZEC	QUEST2	0310	QUEST3	0350
QUEST4	0381	RD1CBF	0814	RDCBUF	0816	RDEROO	0797
RDERMS	0259	READER	0794	REVER	0042	RGM	F000
SEL. 40	05EC	SEL. 80	05F1	SEL.A	051D	SEL. B	061A
SEL. DS	05C3	SEL. MM	0594	SEL. SM	0597	SEL, SS	05C0
SEL4.8	05CC	SELA. B	05FA	SELS. D	05A0	SELS. M	0574
SELVES	0626	SIDTRO	07C3	SIDTRK	0788	SAUMAD	0E2F
SPACE	0020	STACK	0126	STROUT	F01E	TAB	0009
TIMEDU	07B3	TNUMAD	0E25	TRUE	0001	VERBUF	0134
VERDMA	0238	VERDSK	0234	VERERR	0769	<b>VERIFO</b>	073C
VERNTR	0764	VEROP	023A	VERRMS	026B	VERSEC	0237
<b>VERTAB</b>	0234	VERTRK	0235	VERV00	0721	VERVIS	0718
AIDIMI	F02A	VNXSD	070C	VNXTRK	0709	VSIDTR	0409
VVISUA	03F9	WAITOO	07F3	WAITOI	07F6	WAIT02	0808
WAITFD	07EE	WAITKE	081F	WDINI	FO1B	WDIO	F01B
WTIIDF	06A7	WTERR	0270	WTIDFI	0698	WIPREA	068C
XLT	0129						