

MF, TTTY:=MF.MAC

MACRO-80 3.36 17-Mar-80 PAGE 1

;MONITOR LX 390

1

	.Z80		
0000?	ASEG		
	ENTRY START		
0003	MX80	EQU	03H
009F	US	EQU	9FH
0014	NCMD	EQU	14H
0020	BLANK	EQU	020H
003A	PROMPT	EQU	3AH
F000	MONIT	EQU	0F000H
41FC	STKNE	EQU	041FCH
0400	SIZEVI	EQU	00400H
ED07	VICPM	EQU	0ED07H
00EA	TASTIE	EQU	0EAH
EDFF	VIDEND	EQU	0EDFFH
0080	RAMIN	EQU	0080H
DFA0	RAMEND	EQU	0DFA0H
000A	NSKT	EQU	0AH
7002	DMANE	EQU	7002H
7000	SKTTRK	EQU	7000H
00D7	BYTDAT	EQU	00D7H
0000	JPNEDO	EQU	0000H
00B1	CURSOR	EQU	0B1H
0100	INCPM	EQU	0100H
C000	PROG	EQU	0C000H
003F	ASTER	EQU	03FH
00EB	NOCRT	EQU	0EBH
002D	MENO	EQU	02DH
002C	VIRGOL	EQU	02CH
000D	CR	EQU	0DH
000C	FROMF	EQU	0CH
000A	LF	EQU	0AH
0020	RIGA	EQU	020H

VIDEO EC00=EDFF
RAM=TOPRAM

0088	STEPOU	EQU	088H
000B	RESTOR	EQU	00BH
00D0	FORCE	EQU	0D0H
00D0	STEP	EQU	0D0H
00D6	DRVSEL	EQU	0D6H
00D0	STATUS	EQU	0D0H
00D0	COMAND	EQU	0D0H
00D1	RTRACK	EQU	0D1H
00D2	RSECT	EQU	0D2H
00D7	DATA	EQU	0D7H

MACRO-80 3.36 17-Mar-80 PAGE 1-1

0040	DRIVE	EQU	040H
0041	TRACK	EQU	041H
0042	SECTOR	EQU	042H
0043	W007	EQU	043H
0044	W008	EQU	044H
0045	DMAADR	EQU	045H
0047	W009	EQU	047H
0048	ADRCUR	EQU	048H
0066	NMI	EQU	066H
0080	CPMBT	EQU	080H
EC00	VIDEO	EQU	0EC00H

 .PHASE OF000H

F000	START:		
F000	C3 F262	JP	INIZIO
F003	C3 F0CA	JP	INPUT
F006	C3 F048	JP	OUTVID
F009	C3 F15C	JP	L028
F00C	C3 F132	JP	SETDRV
F00F	C3 F123	JP	SETTRC
F012	C3 F128	JP	SETSCT
F015	C3 F12D	JP	SETDMA

h

F018	C3 F1A7	JP	GETSEC
F01B	C3 F1AB	JP	PUTSEC
F01E	C3 F149	JP	L026
F021	C3 F137	JP	L024
F024	C3 F153	JP	L027
F027	C3 F176	JP	L031
F02A	C3 F0EA	JP	DRVBIT
F02D	C3 F0C0	JP	EBHLA
F030	C3 F365	JP	ERROR
F033	C3 F0FB	JP	BOOT
F036	C3 F388	JP	RDCMD
F039	C3 F409	JP	VIDKEY
F03C	C3 F365	JP	ERROR
F03F	C3 F542	JP	VISCPM
F042	C3 F365	JP	ERROR
F045	C3 F6B3	JP	HARD
F048	79	OUTVID: LD	A,C
F049	FE 60	CP	060H
F04B	38 02	JR	C,MSCL
F04D	CB A9	RES	5,C
F04F	F5	MSCL: PUSH	AF
F050	79	LD	A,C
F051	D9	EXX	
F052	2A 0048	LD	HL, (ADRCUR)
F055	FE 20	CP	BLANK

MACRO-80 3.36 17-Mar-80 PAGE 1-2

F057	38 32	JR	C,L007
F059	CD F0C0	CALL	EBHLA
F05C	23	INC	HL
F05D	7C	L003: LD	A,H
F05E	FE EE	CP	0EEH
F060	20 1E	JR	NZ,L006

F062	11 EC00		LD	DE, VIDEO
F065	21 EC20		LD	HL, VIDEO+RIGA
F068	06 04		LD	B, 04H
F06A	C5	SCROLL:	PUSH	BC
F06B	01 0078		LD	BC, 0078H
F06E	DB EB	NOFRE:	IN	A, (NOCRT)
F070	CB 7F		BIT	7, A
F072	20 FA		JR	NZ, NOFRE
F074	ED B0		LDIR	
F076	C1		POP	BC
F077	10 F1		DJNZ	SCROLL
F079	EB		EX	DE, HL
F07A	CD F0B4		CALL	L011
F07D	21 EDE0		LD	HL, VIDEO+01E0H
F080	3E 81	L006:	LD	A, CURSOR
F082	CD F0C0		CALL	EBHLA
F085	22 0048		LD	(ADRCUR), HL
F088	F1		POP	AF
F089	D9		EXX	
F08A	C9		RET	
F08B	FE 0D	L007:	CP	CR
F08D	20 05		JR	NZ, L008
F08F	CD F0B4		CALL	L011
F092	18 C9		JR	L003
F094	FE 0C	L008:	CP	FROMF
F096	20 10		JR	NZ, L010
F098	21 EC00		LD	HL, VIDEO
F09B	CD F0B4	L009:	CALL	L011
F09E	7C		LD	A, H
F09F	FE EE		CP	0EEH
F0A1	20 F8		JR	NZ, L009
F0A3	21 EC00		LD	HL, VIDEO
F0A6	18 D8		JR	L006

FOAB	FE 08	L010:	CP	08H
FOAA	20 D4		JR	NZ, L006
FOAC	3E 20		LD	A, BLANK
FOAE	CD FOC0		CALL	EBHLA
FOB1	2B		DEC	HL
FOB2	18 CC		JR	L006
FOB4	3E 20	L011:	LD	A, BLANK

MACRO-80 3.36 17-Mar-80 PAGE 1-3

FOB6	CD FOC0		CALL	EBHLA
FOB9	23		INC	HL
FOBA	7D		LD	A, L
FOBB	E6 1F		AND	01FH
FOBD	20 F5		JR	NZ, L011
FOBF	C9		RET	
FOC0	F5	EBHLA:	PUSH	AF
FOC1	DB EB	L013:	IN	A, (NOCRT)
FOC3	CB 7F		BIT	7, A
FOC5	20 FA		JR	NZ, L013
FOC7	F1		POP	AF
FOC8	77		LD	(HL), A
FOC9	C9		RET	
FOCA	DB EA	INPUT:	IN	A, (TASTIE)
FOCC	CB 7F		BIT	7, A
FOCE	28 FA		JR	Z, INPUT
FOD0	CB BF		RES	7, A
FOD2	FE 60		CP	060H
FOD4	FA FODE		JP	M, L015
FOD7	FE 7B		CP	07BH
FOD9	F2 FODE		JP	P, L015
FODC	CB AF		RES	5, A
FODE	F5	L015:	PUSH	AF
FODF	DB EA	L016:	IN	A, (TASTIE)

SE CODICE E SF 0 MINORE
SALTA

SE CODICE E FB 0 MA661002
SALTA

6

7

FOE1	CB 7F		BIT	7,A
FOE3	20 FA		JR	NZ,L016
FOE5	F1		POP	AF
FOE6	CD F6EE		CALL	BEEP
FOE9	C9		RET	
FOEA	F5	DRVBIT:	PUSH	AF
FOEB	C5		PUSH	BC
FOEC	3A 0040		LD	A,(DRIVE)
FOEF	3C		INC	A
FOF0	47		LD	B,A
FOF1	AF		XOR	A
FOF2	37		SCF	
FOF3	17	L018:	RLA	
FOF4	10 FD		DJNZ	L018
FOF6	D3 D6		OUT	(DRVSEL),A
FOF8	C1		POP	BC
FOF9	F1		POP	AF
FOFA	C9		RET	
FOFB	31 0080	BOOT:	LD	SP,080H
FOFE	0E 00		LD	C,0
F100	CD F123		CALL	SETTRC
F103	CD F132		CALL	SETDRV
MACRO-80 3.36 17-Mar-80			PAGE	1-4
F106	3C		INC	A
F107	D3 D6		OUT	(DRVSEL),A
F109	CD F15C		CALL	L028
F10C	C2 F365		JP	NZ,ERROR
F10F	01 0080		LD	BC,080H
F112	CD F12D		CALL	SETDMA
F115	0E 01		LD	C,1
F117	CD F128		CALL	SETSCT
F11A	CD F1A7		CALL	GETSEC

F11D	C2 F365	JP	NZ, ERROR
F120	C3 0080	JP	CPMBT
F123	79	SETTRC: LD	A, C
F124	32 0041	LD	(TRACK), A
F127	C9	RET	
F128	79	SETSCT: LD	A, C
F129	32 0042	LD	(SECTOR), A
F12C	C9	RET	
F12D	ED 43 0045	SETDMA: LD	(DMAADR), BC
F131	C9	RET	
F132	79	SETDRV: LD	A, C
F133	32 0040	LD	(DRIVE), A
F136	C9	RET	
F137	F5	L024: PUSH	AF
F138	DB D0	L025: IN	A, (STATUS)
F13A	CB 47	BIT	0, A
F13C	20 FA	JR	NZ, L025
F13E	F1	POP	AF
F13F	32 0043	LD	(W007), A
F142	D3 D0	OUT	(COMAND), A
F144	E3	EX	(SP), HL
F145	E3	EX	(SP), HL
F146	E3	EX	(SP), HL
F147	E3	EX	(SP), HL
F148	C9	RET	
F149	DB D0	L026: IN	A, (STATUS)
F14B	CB 47	BIT	0, A
F14D	20 FA	JR	NZ, L026
F14F	32 0044	LD	(W008), A
F152	C9	RET	
F153	21 004A	L027: LD	HL, 04AH
F156	3A 0040	LD	A, (DRIVE)
F159	85	ADD	A, L

F15A	6F		LD	L, A
F15B	C9		RET	
F15C	C5	L028:	PUSH	BC
F15D	06 03		LD	B, 3
MACRO-80 3.36		17-Mar-80	PAGE	1-5
F15F	3E 07	L029:	LD	A, 7
F161	CD F137		CALL	L024
F164	CD F149		CALL	L026
F167	E6 18		AND	018H
F169	28 06		JR	Z, L030
F16B	10 F2		DJNZ	L029
F16D	3E 82		LD	A, 082H
F16F	18 32		JR	L034
F171	CD F153	L030:	CALL	L027
F174	18 2A		JR	L033
F176	C5	L031:	PUSH	BC
F177	06 03		LD	B, 3
F179	CD F153		CALL	L027
F17C	7E		LD	A, (HL)
F17D	D3 D1		OUT	(RTRACK), A
F17F	3A 0042	L032:	LD	A, (SECTOR)
F182	D3 D2		OUT	(RSECT), A
F184	3A 0041		LD	A, (TRACK)
F187	D3 D7		OUT	(DATA), A
F189	3E 17		LD	A, 017H
F18B	CD F137		CALL	L024
F18E	CD F149		CALL	L026
F191	E6 18		AND	018H
F193	28 0B		JR	Z, L033
F195	CD F15C		CALL	L028
F198	20 09		JR	NZ, L034
F19A	10 E3		DJNZ	L032

F19C	3E 83		LD	A, 083H
F19E	18 03		JR	L034
F1A0	DB D1	L033:	IN	A, (RTRACK)
F1A2	77		LD	(HL), A
F1A3	C1	L034:	POP	BC
F1A4	CB 7F		BIT	7, A
F1A6	C9		RET	
F1A7	3E 01	GETSEC:	LD	A, 1
F1A9	18 01		JR	L037
F1AB	AF	PUTSEC:	XOR	A
F1AC	32 0047	L037:	LD	(W009), A
F1AF	CD F176	L038:	CALL	L031
F1B2	20 4D		JR	NZ, L044
F1B4	06 0A		LD	B, 0AH
F1B6	2A 0045	L039:	LD	HL, (DMAADR)
F1B9	C5		PUSH	BC
F1BA	01 80D7		LD	BC, 080D7H
F1BD	3A 0047		LD	A, (W009)
F1C0	CB 47		BIT	0, A
MACRO-80 3.36		17-Mar-80	PAGE	1-6

F1C2	28 11		JR	Z, L041
F1C4	3E 88		LD	A, 088H
F1C6	CD F137		CALL	L024
F1C9	DB D0	L040:	IN	A, (STATUS)
F1CB	CB 4F		BIT	1, A
F1CD	28 FA		JR	Z, L040
F1CF	ED A2		INI	
F1D1	20 F6		JR	NZ, L040
F1D3	18 0F		JR	L043
F1D5	3E A8	L041:	LD	A, 0A8H
F1D7	CD F137		CALL	L024
F1DA	DB D0	L042:	IN	A, (STATUS)

11

F1DC	CB 4F		BIT	1,A
F1DE	28 FA		JR	Z,L042
F1E0	ED A3		OUTI	
F1E2	20 F6		JR	NZ,L042
F1E4	CD F149	L043:	CALL	L026
F1E7	C1		POP	BC
F1E8	E6 1F		AND	01FH
F1EA	28 15		JR	Z,L044
F1EC	10 CB		DJNZ	L039
F1EE	3A 0047		LD	A,(W009)
F1F1	CB 7F		BIT	7,A
F1F3	20 0C		JR	NZ,L044
F1F5	CB FF		SET	7,A
F1F7	32 0047		LD	(W009),A
F1FA	CD F15C		CALL	L028
F1FD	20 02		JR	NZ,L044
F1FF	18 AE		JR	L038
F201	F5	L044:	PUSH	AF
F202	AF		XOR	A
F203	D3 D6		OUT	(DRVSEL),A
F205	F1		POP	AF
F206	C9		RET	
F207		INPORT:		
F207	0D		DEC	C
F208	CD F388		CALL	RDCMD
F20B	D1		POP	DE
F20C	0E 2D	L045:	LD	C,MEND
F20E	CD F048		CALL	OUTVID
F211	4B		LD	C,E
F212	ED 78		IN	A,(C)
F214	CD F3CA		CALL	UNPK1
F217	1C		INC	E
F218	CD F3F9		CALL	VIDTST

F21B DA F2A1 JP C,ASPCOM
MACRO-80 3.36 17-Mar-80 PAGE 1-7

12

F21E 18 EC JR L045

F220 CMDTAB:

F220 0100 DEFW ~~INCPM~~ ERROR

F222 F0FB DEFW BOOT

F224 F365 DEFW ERROR

F226 F2CC DEFW DISPLY

F228 F365 DEFW ERROR

F22A F2F0 DEFW FILL

F22C F2C6 DEFW GO

F22E F2FF DEFW ADDSUB

F230 F207 DEFW INPORT

F232 F365 DEFW ERROR

F234 F365 DEFW ERROR

F236 F341 DEFW RDSECT

F238 F365 DEFW ERROR ~~START~~

F23A F5C2 DEFW ~~NEDOS~~ ERROR

F23C F248 DEFW OUTPRT

F23E C000 DEFW ~~PROG~~ ERROR

F240 F365 DEFW ERROR

F242 F345 DEFW WRSECT

F244 F318 DEFW WRITE

F246 F5B6 DEFW TESTRA

F248 OUTPRT:

F248 CD F388 CALL RDCMD

F24B D1 POP DE

F24C C1 POP BC

F24D ED 59 OUT (C),E

F24F 18 50 JR ASPCOM

F251 SCR1:

F251 OD DEFB CR

F252 0A DEFB LF
 F253 2D 54 2D 4D DEFM "-T-MONITOR V1.2"
 F257 4F 4E 49 54 "SYSTEM MONITOR V1.3"
 F25B 4F 52 20 56
 F25F 31 2E 32
 F262 DB D6 INIZIO: IN A, (DRVSEL)
 F264 3E FF LD A, OFFH
 F266 D3 03 OUT (03H), A
 F268 3E C3 LD A, 0C3H
 F26A 32 0066 LD (NMI), A
 F26D 21 F000 LD HL, MONIT
 F270 22 0067 LD (NMI+1), HL
 F273 21 EC00 LD HL, VIDEO
 F276 22 0048 LD (ADRCUR), HL
 F279 01 0400 LD BC, SIZEVI
 F27C 11 EC01 LD DE, VIDEO+1
 MACRO-80 3.36 17-Mar-80 PAGE 1-8
 F27F 36 20 LD (HL), BLANK
 F281 ED B0 LDIR
 F283 21 ECFF LD HL, VIDEO+OFFH
 F286 25 L047: DEC H
 F287 7E LD A, (HL)
 F288 2F CPL
 F289 77 LD (HL), A
 F28A BE CP (HL)
 F28B 2F CPL
 F28C 77 LD (HL), A
 F28D 20 F7 JR NZ, L047
 F28F 23 INC HL
 F290 F9 LD SP, HL
 F291 21 F251 LD HL, SCR1
 F294 16 11 LD D, 11H

14

F296	4E	LO48:	LD	C, (HL)
F297	23		INC	HL
F298	CD F048		CALL	OUTVID
F29B	15		DEC	D
F29C	20 F8		JR	NZ, LO48
F29E	CD F4F5		CALL	INIZ1
F2A1	CD F6EE	ASPCOM:	CALL	BEEP
F2A4	CD F37E		CALL	DOWN
F2A7	OE 3A		LD	C, PROMPT
F2A9	CD F048		CALL	OUTVID
F2AC	CD F409		CALL	VIDKEY
F2AF	D6 41		SUB	041H
F2B1	FA F2A1		JP	M, ASPCOM
F2B4	FE 14		CP	NCMD
F2B6	F2 F365		JP	P, ERROR
F2B9	87		ADD	A, A
F2BA	21 F220		LD	HL, CMDTAB
F2BD	85		ADD	A, L
F2BE	6F		LD	L, A
F2BF	7E		LD	A, (HL)
F2C0	23		INC	HL
F2C1	66		LD	H, (HL)
F2C2	6F		LD	L, A
F2C3	OE 02		LD	C, 2
F2C5	E9		JP	(HL)
F2C6		GO:		
F2C6	OD		DEC	C
F2C7	CD F388		CALL	RDCMD
F2CA	E1		POP	HL
F2CB	E9		JP	(HL)
F2CC		DISPLY:		

F2CC	CD F388	CALL	RDCMD
F2CF	D1	POP	DE
F2D0	E1	POP	HL
F2D1	CD F37E	L050: CALL	DOWN
F2D4	CD F3C5	CALL	UNPK2
F2D7	CD F371	L051: CALL	SCSPC
F2DA	7E	LD	A, (HL)
F2DB	CD F3CA	CALL	UNPK1
F2DE	CD F3B5	CALL	L067
F2E1	38 BE	JR	C, ASPCOM
F2E3		PKEY:	
F2E3	DB EA	IN	A, (TASTIE)
F2E5	CB 7F	BIT	7, A
F2E7	20 FA	JR	NZ, PKEY
F2E9	7D	LD	A, L
F2EA	E6 07	AND	07H
F2EC	20 E9	JR	NZ, L051
F2EE	18 E1	JR	L050
F2F0		FILL:	
F2F0	OC	INC	C
F2F1	CD F388	CALL	RDCMD
F2F4	C1	POP	BC
F2F5	D1	POP	DE
F2F6	E1	POP	HL
F2F7	71	L052: LD	(HL), C
F2F8	CD F3B5	CALL	L067
F2FB	30 FA	JR	NC, L052
F2FD	18 A2	JR	ASPCOM
F2FF		ADDSUB:	
F2FF	CD F388	CALL	RDCMD
F302	D1	POP	DE
F303	E1	POP	HL
F304	CD F37E	CALL	DOWN

16

F307	E5		PUSH	HL
F308	19		ADD	HL, DE
F309	CD F3C5		CALL	UNPK2
F30C	CD F371		CALL	SCSPC
F30F	E1		POP	HL
F310	B7		OR	A
F311	ED 52		SBC	HL, DE
F313	CD F3C5		CALL	UNPK2
F316	18 89		JR	ASPCOM
F318		WRITE:		
F318	OD		DEC	C
F319	CD F388		CALL	RDCMD
F31C	CD F3FC		CALL	TSTKEY
	MACRO-80 3.36	17-Mar-80	PAGE	1-10
F31F	38 44		JR	C, ERROR
F321	E1		POP	HL
F322	7E	L053:	LD	A, (HL)
F323	CD F3CA		CALL	UNPK1
F326	OE 2D		LD	C, MEND
F328	CD F048		CALL	OUTVID
F32B	CD F3F9		CALL	VIDTST
F32E	38 3E		JR	C, L057
F330	28 0C		JR	Z, L054
F332	E5		PUSH	HL
F333	CD F3AE		CALL	L066
F336	D1		POP	DE
F337	E1		POP	HL
F338	73		LD	(HL), E
F339	78		LD	A, B
F33A	FE 0D		CP	CR
F33C	28 30		JR	Z, L057
F33E	23	L054:	INC	HL

F33F	18 E1		JR	L053
F341		RDSECT:		
F341	3E 01		LD	A, 1
F343	18 01		JR	L055
F345		WRSECT:		
F345	AF		XOR	A
F346	32 0047	L055:	LD	(W009), A
F349	0E 04		LD	C, 4
F34B	CD F388		CALL	RDCMD
F34E	C1		POP	BC
F34F	CD F12D		CALL	SETDMA
F352	C1		POP	BC
F353	CD F128		CALL	SETSCT
F356	CD F123		CALL	SETTRC
F359	C1		POP	BC
F35A	CD F132		CALL	SETDRV
F35D	CD F0EA		CALL	DRVBIT
F360	CD F1AF		CALL	L038
F363	28 09		JR	Z, L057
F365	CD F3D9	ERROR:	CALL	TOPRAM
F368	F9		LD	SP, HL
F369	0E 3F		LD	C, ASTER
F36B	CD F048		CALL	OUTVID
F36E	C3 F2A1	L057:	JP	ASPCOM
F371	0E 20	SCSPC:	LD	C, BLANK
F373	C3 F048		JP	OUTVID
F376	C6 90	CONASC:	ADD	A, 090H
F378	27		DAA	
MACRO-80 3.36 17-Mar-80			PAGE	1-11
F379	CE 40		ADC	A, 040H
F37B	27		DAA	
F37C	4F		LD	C, A

F37D	C9		RET	
F37E	0E 0D	DOWN:	LD	C, CR
F380	CD F048		CALL	OUTVID
F383	0E 0A		LD	C, LF
F385	C3 F048		JP	OUTVID
F388	21 0000	RDCMD:	LD	HL, 0
F38B	CD F409	L062:	CALL	VIDKEY
F38E	47	L063:	LD	B, A
F38F	CD F3E7		CALL	CONHEX
F392	38 08		JR	C, L064
F394	29		ADD	HL, HL
F395	29		ADD	HL, HL
F396	29		ADD	HL, HL
F397	29		ADD	HL, HL
F398	B5		OR	L
F399	6F		LD	L, A
F39A	18 EF		JR	L062
F39C	E3	L064:	EX	(SP), HL
F39D	E5		PUSH	HL
F39E	78		LD	A, B
F39F	CD F3FC		CALL	TSTKEY
F3A2	30 04		JR	NC, L065
F3A4	0D		DEC	C
F3A5	20 BE		JR	NZ, ERROR
F3A7	C9		RET	
F3A8	20 BB	L065:	JR	NZ, ERROR
F3AA	0D		DEC	C
F3AB	20 DB		JR	NZ, RDCMD
F3AD	C9		RET	
F3AE	0E 01	L066:	LD	C, 1
F3B0	21 0000		LD	HL, 0
F3B3	18 D9		JR	L063
F3B5	23	L067:	INC	HL

19

F3B6	7C	LD	A, H
F3B7	B5	OR	L
F3B8	37	SCF	
F3B9	C8	RET	Z
F3BA	7B	LD	A, E
F3BB	95	SUB	L
F3BC	7A	LD	A, D
F3BD	9C	SBC	A, H
F3BE	C9	RET	
F3BF	CD F376	VIDASC: CALL	CONASC
	MACRO-80 3.36	17-Mar-80	PAGE 1-12

F3C2	C3 F048	JP	OUTVID
		; SPACCHETTA HL SU VIDEO	
F3C5	7C	UNPK2: LD	A, H
F3C6	CD F3CA	CALL	UNPK1
F3C9	7D	LD	A, L
		; SPACCHETTA A SU VIDEO	
F3CA	F5	UNPK1: PUSH	AF
F3CB	0F	RRCA	
F3CC	0F	RRCA	
F3CD	0F	RRCA	
F3CE	0F	RRCA	
F3CF	E6 0F	AND	0FH
F3D1	CD F3BF	CALL	VIDASC
F3D4	F1	POP	AF
F3D5	E6 0F	AND	0FH
F3D7	18 E6	JR	VIDASC
F3D9	21 ECFF	TOPRAM: LD	HL, VIDEO+OFFH
F3DC	25	L072: DEC	H
F3DD	7E	LD	A, (HL)
F3DE	2F	CPL	
F3DF	77	LD	(HL), A

F3E0	BE		CP	(HL)
F3E1	2F		CPL	
F3E2	77		LD	(HL),A
F3E3	20 F7		JR	NZ,L072
F3E5	23		INC	HL
F3E6	C9		RET	
F3E7	D6 30	CONHEX:	SUB	030H
F3E9	D8		RET	C
F3EA	C6 E9		ADD	A,0E9H
F3EC	D8		RET	C
F3ED	C6 06		ADD	A,6
F3EF	F2 F3F5		JP	P,L074
F3F2	C6 07		ADD	A,7
F3F4	D8		RET	C
F3F5	C6 0A	L074:	ADD	A,0AH
F3F7	B7		OR	A
F3F8	C9		RET	
F3F9	CD F409	VIDTST:	CALL	VIDKEY
F3FC	FE 20	TSTKEY:	CP	BLANK
F3FE	C8		RET	Z
F3FF	FE 2C		CP	VIRGOL
F401	C8		RET	Z
F402	FE 0D		CP	CR
F404	37		SCF	
F405	3F		CCF	
MACRO-80 3.36		17-Mar-80	PAGE	1-13
F406	C0		RET	NZ
F407	37		SCF	
F408	C9		RET	
F409	CD FOCA	VIDKEY:	CALL	INPUT
F40C	E6 7F		AND	07FH
F40E	C5		PUSH	BC

F40F	4F	LD	C,A
F410	CD F048	CALL	OUTVID
F413	79	LD	A,C
F414	C1	POP	BC
F415	C9	RET	
F416		SCR2:	
F416	OD	DEFB	CR
F417	OA	DEFB	LF
F418	41 55 54 4F	DEFM	"AUTO TEST RAM<56 KBYTE>"
F41C	20 54 45 53		
F420	54 20 52 41		
F424	4D 3C 35 36		
F428	20 4B 42 59		
F42C	54 45 3E		
F42F		SCR3:	
F42F	OD	DEFB	CR
F430	OA	DEFB	LF
F431	41 55 54 4F	DEFM	"AUTO TEST RAM VIDEO"
F435	20 54 45 53		
F439	54 20 52 41		
F43D	4D 20 56 49		
F441	44 45 4F		
F444		SCR4:	
F444	OD	DEFB	CR
F445	OA	DEFB	LF
F446	42 3D 42 4F	DEFM	"B=BOOTSTRAP CP/M SYS 17/128"
F44A	4F 54 53 54		
F44E	52 41 50 20		
F452	43 50 2F 4D		
F456	20 53 59 53		
F45A	20 31 37 2F		
F45E	31 32 38		
F461		SCR5:	


```

F461      0D                      DEFB CR
F462      0A                      DEFB LF
F463      4E 3D 42 4F             DEFM"N=BOOTSTRAP NEDOS SYS 10/256"
F467      4F 54 53 54
F46B      52 41 50 20
F46F      4E 45 44 4F
F473      53 20 53 59

```

```

MACRO-80 3.36    17-Mar-80    PAGE    1-14

```

```

F477      53 20 31 30
F47B      2F 32 35 36
F47F
F47F      42 4F 4F 54             DEFM"BOOTSTRAP CP/M 2.25"
F483      53 54 52 41
F487      50 20 43 50
F48B      2F 4D 20 32
F48F      2E 32 35

```

```

F492
F492      42 4F 4F 54             DEFM"BOOTSTRAPPING VERSION 2.0"
F496      53 54 52 41
F49A      50 50 49 4E
F49E      47 20 56 45
F4A2      52 53 49 4F
F4A6      4E 20 32 2E
F4AA      30

```

```

F4AB
F4AB      49 4E 53 45             MES3:
S<BARSPACE>      "             DEFM"INSERT DOS-DISK AT DRIVE 0    THEN PRE

```

```

F4AF      52 54 20 44
F4B3      4F 53 2D 44
F4B7      49 53 4B 20
F4BB      41 54 20 44
F4BF      52 49 56 45
F4C3      20 30 20 20

```


F4C7 20 20 20 20
 F4CB 20 20 54 48
 F4CF 45 4E 20 50
 F4D3 52 45 53 53
 F4D7 3C 42 41 52
 F4DB 53 50 41 43
 F4DF 45 3E 20 20
 F4E3 20 20 20 20
 F4E7 20

F4E8

MES4:

F4E8 4E 4F 20 44

DEFM"NO DOS-SYSTEM"

F4EC 4F 53 2D 53

F4F0 59 53 54 45

F4F4 4D

F4F5 CD F37E

INIZ1: CALL DOWN

F4F8 21 F42F

LD HL,SCR3

F4FB 16 15

LD D,15H

F4FD CD F52B

CALL VISU

F500 CD F556

CALL TEVI

F503 CD F37E

CALL DOWN

F506 21 F416

LD HL,SCR2

F509 16 19

LD D,19H

MACRO-80 3.36 17-Mar-80

PAGE 1-15

F50B CD F52B

CALL VISU

F50E CD F560

CALL TERAM

F511 CD F37E

CALL DOWN

F514 21 F444

LD HL,SCR4

F517 16 1D

LD D,1DH

F519 CD F52B

CALL VISU

F51C CD F37E

CALL DOWN

F51F 21 F461

LD HL,SCR5

F522 16 1E

LD D,1EH

F524	CD F52B	CALL VISU
F527	CD F6EE	CALL BEEP
F52A	C9	RET
F52B	4E	VISU: LD C, (HL)
F52C	23	INC HL
F52D	CD F048	CALL OUTVID
F530	15	DEC D
F531	20 F8	JR NZ, VISU
F533	C9	RET
F534	21 EC00	BLKVI: LD HL, VIDEO
F537	11 EC01	LD DE, VIDEO+1
F53A	01 0400	LD BC, SIZEVI
F53D	36 20	LD (HL), BLANK
F53F	ED B0	LDIR
F541	C9	RET
F542	CD F534	VISCPM: CALL BLKVI
F545	21 F47F	LD HL, SCR6
F548	11 ED07	LD DE, VICPM
F54B	01 0013	LD BC, 13H
F54E	ED B0	LDIR
F550	3E 01	LD A, 01H
F552	32 004E	LD (004EH), A
F555	C9	RET
F556	21 EC00	TEVI: LD HL, VIDEO
F559	11 EDFF	LD DE, VIDEND
F55C	CD F56A	CALL TEST
F55F	C9	RET
F560	21 0080	TERAM: LD HL, RAMIN
F563	11 DFA0	LD DE, RAMEND
F566	CD F56A	CALL TEST
F569	C9	RET
F56A	00	TEST: NOP
F56B	7E	LD A, (HL)

F56C F5 PUSH AF
 F56D 3E 55 LD A,55H
 F56F 77 LD (HL),A
 F570 BE CP (HL)
 MACRO-80 3.36 17-Mar-80 PAGE 1-16

25

F571 C4 F582 CALL NZ,ERROR1
 F574 2F CPL
 F575 77 LD (HL),A
 F576 BE CP (HL)
 F577 C4 F582 CALL NZ,ERROR1
 F57A F1 POP AF
 F57B 77 LD (HL),A
 F57C CD F3B5 CALL L067
 F57F 30 E9 JR NC,TEST
 F581 C9 RET
 F582 D5 ERROR1: PUSH DE
 F583 F5 PUSH AF
 F584 E5 PUSH HL
 F585 5F LD E,A
 F586 CD F37E CALL DOWN
 F589 CD F3C5 CALL UNPK2
 F58C CD F371 CALL SCSPC
 F58F CD F5A7 CALL VISBIT
 F592 E1 POP HL
 F593 7E LD A,(HL)
 F594 5F LD E,A
 F595 CD F371 CALL SCSPC
 F598 CD F5A7 CALL VISBIT
 F59B DB EA PKEY1: IN A,(TASTIE)
 F59D CB 7F BIT 7,A
 F59F 20 FA JR NZ,PKEY1
 F5A1 CD F6EE CALL BEEP

LD E,"W"
CALL OUTVID

CALL SCSPC
LD E,"R"
CALL OUTVID

F5A4	F1	POP AF
F5A5	D1	POP DE
F5A6	C9	RET
F5A7	06 08	VISBIT: LD B,08H
F5A9	7B	L300: LD A,E
F5AA	07	RLCA
F5AB	5F	LD E,A
F5AC	3E 18	LD A,18H
F5AE	17	RLA
F5AF	4F	LD C,A
F5B0	CD F048	CALL OUTVID
F5B3	10 F4	DJNZ L300
F5B5	C9	RET
F5B6	21 0080	TESTRA: LD HL,RAMIN
F5B9	11 DFA0	LD DE,RAMEND
F5BC	CD F56A	CALL TEST
F5BF	C3 F2A1	JP ASPCOM
F5C2	31 41FC	NEDOS: LD SP,STKNE
F5C5	CD F534	CALL BLKVI

CALL TOPRAM
EX DE,HL

MACRO-80 3.36 17-Mar-80 PAGE 1-17

F5C8	21 F492	LD HL,MES2
F5CB	11 EC23	LD DE,0EC23H
F5CE	01 0019	LD BC,0019H
F5D1	ED B0	LDIR
F5D3	AF	L200: XOR A
F5D4	D3 D6	OUT (DRVSEL),A
F5D6	D3 D0	OUT (COMAND),A
F5D8	E3	L201: EX (SP),HL
F5D9	E3	EX (SP),HL
F5DA	DB D0	IN A,(STATUS)
F5DC	CB 4F	BIT 1,A
F5DE	28 06	JR Z,L202

F5E0	3E D0		LD A, FORCE
F5E2	D3 D0		OUT (COMAND), A
F5E4	18 F2		JR L201
F5E6	21 F4AB	L202:	LD HL, MES3
F5E9	11 ED03		LD DE, 0ED03H
F5EC	01 003D		LD BC, 003DH
F5EF	ED B0		LDIR
F5F1	DB EA	L203:	IN A, (TASTIE)
F5F3	CB 7F		BIT 7, A
F5F5	28 FA		JR Z, L203
F5F7	CD F6EE		CALL BEEP
F5FA	21 EC88		LD HL, 0EC88H
F5FD	11 EC89		LD DE, 0EC89H
F600	01 000A		LD BC, 0010
F603	36 20		LD (HL), BLANK
F605	ED B0		LDIR
F607	21 0000		LD HL, 0
F60A	22 7002		LD (DMANE), HL
F60D	21 1500		LD HL, 1500H
F610	22 7000		LD (SKTTRK), HL
F613	3E 01		LD A, 01H