```
60000 REM ************ M.W.Thoma ***************
60010 REM *                                      *
60020 REM * Disketten-Befehlserweiterung *******
60030 REM *                                      *
60040 REM * Aktivieren der RSX-Befehle: &a000 **
60050 REM *                                      *
60060 REM * SECREAD,drive,track,sector,puffer **
60070 REM * SECWRITE,drive,track,sector,puffer *
60080 REM * SETFORMAT,format                     *
60090 REM * SHOWFORMAT                          *
60100 REM * ERROROn                            *
60110 REM * ERROROFF                           *
60120 REM * PEEK(&A16C) = Fehlerflag            *
60130 REM *                                      *

60140 REM ****************************************

60150 MEMORY &9FFF: BORDER 0,26
60160 summe=0
60170 FOR i=&A000 TO &A1B0
60180 READ a$
60190 wert=VAL("&"+a$)
60200 POKE i,wert
60210 summe=summe+wert
60220 NEXT i
60230 '
60240 BORDER 0,0:INK 0,0: INK 1,26
60250 IF summe=49692 THEN CALL &A000:RET
URN
60260 '
60270 PRINT "!! FEHLER IM MASCHINENPRORA
MM !!"
60280 STOP
60290 '
60300 DATA 01,09,A0,21,4F,A0,C3,D1,BC,1D
60310 DATA A0,C3,CE,A0,C3,DA,A0,C3,53,A0
60320 DATA C3,59,A0,C3,5F,A0,C3,A4,A0,53
60330 DATA 45,43,52,45,41,C4,53,45,43,57
60340 DATA 52,49,54,C5,45,52,52,4F,52,4F
60350 DATA 46,C6,45,52,52,4F,52,4F,CE,53
60360 DATA 45,54,46,4F,52,4D,41,D4,53,48
60370 DATA 4F,57,46,4F,52,4D,41,D4,00,FC
60380 DATA A6,09,A0,3E,00,32,6D,A1,C9,3E
60390 DATA 01,32,6D,A1,C9,F5,3E,00,32,6C

60400 DATA A1,F1,FE,01,C2,45,A1,DD,7E,01
60410 DATA DD,7E,00,FE,00,CA,83,A0,FE,01
60420 DATA CA,8E,A0,FE,02,CA,99,A0,C3,45
60430 DATA A1,3E,0A,32,15,A1,3E,40,32,1A
60440 DATA A1,C9,3E,0A,32,15,A1,3E,C0,32
60450 DATA 1A,A1,C9,3E,09,32,15,A1,3E,00
60460 DATA 32,1A,A1,C9,3A,1A,A1,FE,C0,CA
60470 DATA B7,A0,FE,40,CA,BD,A0,21,A6,A1
60480 DATA C3,C0,A0,21,99,A1,C3,C0,A0,21
60490 DATA 84,A1,7E,FE,00,CA,CD,A0,CD,5A
60500 DATA BB,23,C3,C0,A0,C9,CD,E6,A0,3E
60510 DATA 84,32,6B,A1,CD,28,A1,C9,CD,E6
60520 DATA A0,3E,85,32,6B,A1,CD,28,A1,C9
60530 DATA F5,3E,00,32,6C,A1,F1,FE,04,C2
60540 DATA 44,A1,DD,7E,07,DD,7E,06,FE,02
60550 DATA D2,44,A1,32,63,A1,DD,7E,05,DD
60560 DATA 7E,04,FE,28,D2,44,A1,32,64,A1
60570 DATA DD,7E,03,DD,7E,02,FE,0A,D2,44
60580 DATA A1,CE,40,32,65,A1,DD,66,01,DD
```

```
60590 DATA 6E,00,22,66,A1,C9,21,6B,A1,CD
60600 DATA D4,BC,22,68,A1,79,32,6A,A1,21
60610 DATA 63,A1,5E,23,56,23,4E,2A,66,A1
60620 DATA DF,68,A1,C9,E1,3E,FF,32,6C,A1
60630 DATA 3A,6D,A1,FE,00,CA,62,A1,21,6E
60640 DATA A1,7E,FE,00,CA,62,A1,CD,5A,BB
60650 DATA 23,C3,55,A1,C9,00,00,41,00,90
60660 DATA 3C,C0,07,84,FF,01,21,21,21,50
60670 DATA 61,72,61,6D,65,74,65,72,66,65
60680 DATA 68,6C,65,72,21,21,07,00,41,4D
60690 DATA 53,44,4F,53,2F,56,45,4E,44,4F
60700 DATA 52,2D,46,6F,72,6D,61,74,00,44
60710 DATA 41,54,45,4E,2D,46,6F,72,6D,61
60720 DATA 74,00,49,42,4D,2D,46,6F,72,6D
60730 DATA 61,74,00
60740 REM **********************************
```

Demo 1

```
100 |ERRORON
110 |SETFORMAT,0
120 |SECREAD,0,2,0,&A200
130 FOR adr=&A200 TO &A3FF
140 wert=PEEK(adr)
150 IF wert<32 OR wert>127 THEN wert=46
160 PRINT CHR$(wert);
170 NEXT adr
```

Demo 2

```
1000 MEMORY 9999
1010 MODE 2
1020 adr=10000
1030 PRINT " > Bitte Diskette mit CP/M e
inlegen !"
1040 jn$=INKEY$:IF jn$="" THEN 1040
1050 PRINT " * Lese Spur 0 und 1 ein !"
1060 FOR sp=0 TO 1
1070 FOR se=0 TO 8
1080 |SECREAD,0,sp,se,adr
1090 adr=adr+512
1100 NEXT se
1110 NEXT sp
1120 '
1130 adr=10000
1140 PRINT " > Bitte Zieldiskette einleg
en !"
1150 jn$=INKEY$:IF jn$="" THEN 1150
1160 PRINT " * Schreibe Spur 0 und 1 zur
ueck !"
1170 FOR sp=0 TO 1
1180 FOR se=0 TO 8
1190 |SECWRITE,0,sp,se,adr
1200 adr=adr+512
1210 NEXT se
1220 NEXT sp
```

```
1000 REM ********** M.W.THOMA *******
***
1010 REM *                              *
1020 REM * DISKETTEN-MONITOR V1.3       *
1030 REM *                              *
1040 REM ********************************
1050 MODE 2
1060 IF PEEK(&A000)=1 AND PEEK(&A001)=9
THEN 1070
1065 GOSUB 9000
1070 ON ERROR GOTO 8000
1080 leer=1:flag=&A16C:drive=0:format=0:
puffer=&A200
1090 |ERROROFF:|SETFORMAT,format
1100 WINDOW#0,1,80,2,24
1110 WINDOW#1,1,80,1,1
1120 WINDOW#2,1,80,25,25
1130 PRINT#1,TAB(25);"***** DISC-Monitor
 V1.3 *****"
1140 PRINT#2,TAB(10);"LAUFWERK <A>      S
PUR <##>       ";
1150 PRINT#2,"SEKTOR <##>    FORMAT <A>"
1160 '
2000 REM ********************************
2010 REM *     KOMMANDO EINGABE         *
2020 REM ********************************
2030 LINE INPUT ">",ko$
2040 k$=UPPER$(LEFT$(ko$,1))
2050 IF k$="C" THEN CLS:GOTO 2030
2060 IF k$="Q" THEN MODE 2:END
2070 IF k$="D" THEN 3500
2080 IF K$="F" THEN 3600
2090 IF K$="B" THEN 3800
2100 IF k$="L" THEN 3000
2110 IF k$="R" THEN 4000
2120 IF k$="W" THEN 4500
2130 IF k$="A" THEN 5000
2140 IF k$="H" THEN 6000
2150 PRINT CHR$(7);"!Eingabefehler!"
2160 GOTO 2030
2170 '
3000 REM ********************************
3010 REM * <L> Listen des Puffers       *
3020 REM ********************************
3030 IF leer=0 THEN 3050
3040 PRINT CHR$(7);"!Kein Sektor geladen
!":GOTO 2030
3050 anf=VAL("&"+MID$(ko$,3,3))
3060 ende=VAL("&"+MID$(ko$,7,3))
3070 anf=INT(anf/16)*16:ende=INT((ende+1
6)/16)*16-1
3075 IF ende>&1FF THEN ende=&1FF
3080 z1=0:ascii$=""
3090 FOR i=anf TO ende
3100 IF z1=0 THEN PRINT "<";HEX$(i,3);">
  ";
3110 wert=PEEK(puffer+i)
3120 PRINT HEX$(wert,2);" ";
3130 IF wert<32 OR wert>127 THEN wert=46
3140 ascii$=ascii$+CHR$(wert)
3150 z1=z1+1:IF z1=16 THEN z1=0:PRINT as
cii$:ascii$=""
```

```
3160 NEXT i
3170 GOTO 2030
3180 '
3500 REM ************************************
3510 REM * <D> Laufwerk wechseln            *
3520 REM ************************************
3530 IF UPPER$(MID$(ko$,3,1))="A" THEN d
rive=0:GOTO 3560
3540 IF UPPER$(MID$(ko$,3,1))="B" THEN d
rive=1:GOTO 3560
3550 PRINT CHR$(7);"!Falsches Laufwerk!"
:GOTO 2030
3560 LOCATE#2,20,1:PRINT#2,UPPER$(MID$(k
o$,3,1))
3570 GOTO 2030
3580 '
3600 REM ************************************
3610 REM * <F> Setzen des Formates          *
3620 REM ************************************
3630 F$=UPPER$(MID$(KO$,3,1))
3640 IF f$="A" THEN format=0:GOTO 3680
3650 IF f$="D" THEN format=1:GOTO 3680
3660 IF f$="I" THEN format=2:GOTO 3680
3670 PRINT CHR$(7);"!Formatfehler!":GOTO
 2030
3680 LOCATE#2,65,1:PRINT#2,f$
3690 !SETFORMAT,format
3700 GOTO 2030
3710 '
3800 REM ************************************
3810 REM * <B> Umrechnung von Block in *
3815 REM *          Spur und Sektor
3820 REM ************************************
3830 bl=VAL("&"+MID$(ko$,3,2))
3840 IF format=0 THEN 3880
3850 IF format=1 THEN 3900
3860 sp=INT((bl*2+8)/9):se=(bl*2+8)MOD 8
3870 GOTO 3910
3880 sp=INT((bl*2+18)/9):se=(bl*2+18)MOD
 9
3890 GOTO 3910
3900 sp=INT((bl*2)/9):se=(bl*2)MOD 9
3910 PRINT "Spur: ";HEX$(sp,2);" Sektor:
 ";HEX$(se,2)
3920 GOTO 2030
3930 '
4000 REM ************************************
4010 REM * <R>  Sektor einlesen             *
4020 REM ************************************
4030 spur=VAL("&"+MID$(ko$,3,2))
4040 sektor=VAL("&"+MID$(ko$,6,2))
4050 !SECREAD,drive,spur,sektor,puffer
4060 IF PEEK(flag)=0 THEN 4090
4070 PRINT CHR$(7);"!Parameterfehler!"
4080 GOTO 2030
4090 LOCATE#2,33,1:PRINT#2,HEX$(spur,2);
4100 LOCATE#2,50,1:PRINT#2,HEX$(sektor,2
);
4110 leer=0:GOTO 2030
4120 '
4500 REM ************************************
4510 REM * <W>  Puffer in Sektor            *
4515 REM *          schreiben               *
4520 REM ************************************
4530 IF leer=0 THEN 4560
4540 PRINT CHR$(7);"!Puffer ist leer!"
4550 GOTO 2030
4560 spur=VAL("&"+MID$(ko$,3,2))
4570 sektor=VAL("&"+MID$(ko$,6,2))
4580 PRINT" * SICHER (J/N) : Spur: ";HEX
$(spur,2);
```

```
4590 PRINT" Sektor: ";HEX$(sektor,2)
4600 jn$=INKEY$:IF jn$="" THEN 4600
4610 jn$=UPPER$(jn$)
4620 IF jn$="N" THEN 2030
4630 IF jn$<>"J" THEN 4600
4640 !SECWRITE,drive,spur,sektor,puffer
4650 IF PEEK(flag)=0 THEN 2030
4660 PRINT CHR$(7);"!Parameterfehler!"
4670 GOTO 2030
4680 '
5000 REM ************************************
5010 REM * <A>  Sektor aendern              *
5020 REM ************************************
5030 IF leer=0 THEN 5060
5040 PRINT CHR$(7);"!Puffer ist leer!"
5050 GOTO 2030
5060 anf=VAL("&"+MID$(ko$,3,3))
5070 WHILE anf<&200
5080 PRINT"<";HEX$(anf,3);"> ";HEX$(PEEK
(anf+puffer),2);" ";
5090 INPUT eg$
5100 IF eg$="" THEN 5130
5110 wert=VAL("&"+eg$)
5120 POKE anf+puffer,wert
5130 anf=anf+1
5140 WEND
5150 GOTO 2030
5160 '
6000 REM ************************************
6010 REM * <H>        Hilfe                 *
6020 REM ************************************
6030 CLS:PRINT CHR$(24);
6040 PRINT " R:&&:&&   : Read. Liest ang
egeben Sektor ein  "
6050 PRINT " W:&&:&&   : Write. Schreibt
 Puffer auf Disk   "
6060 PRINT " L:&&&:&&& : List. Listet de
n Puffer von bis   "
6070 PRINT " A:&&&     : Aendern. Sektor
 aendern ab        "
6080 PRINT " D:$       : Drive. Schaltet
 Laufwerk um       "
6090 PRINT " F:$       : Format. Waehlt
Format  A, D, I    "
6100 PRINT " B:&&      : Blocknummer. Er
rechnet Spur Sektor"
6110 PRINT " C         : Clear. Bildschi
rm loeschen        "
6120 PRINT " H         : Hilfe. Zeigt al
le Befehle an      "
6130 PRINT " Q         : Quit. Programme
nde                "
6140 PRINT CHR$(24);
6150 GOTO 2030
6160 '

8000 REM ************************************
8010 REM *  Fehlerbehandlung fuer HEX  *
8020 REM ************************************
8030 PRINT CHR$(7);"!HEX-Fehler (Abbruch
)!":RESUME 2030
8040 '
9000 REM ********** M.W.TOMA **********
9010 REM *                              *
9020 REM * Disketten-Befehlserweiterung*
9030 REM *                              *
9040 REM * Aktivieren der RSX-Befehle: *
9045 REM *         &a000                *
9050 REM *                              *

9060 REM * SECREAD,drive,track,sector  *
9065 REM *          and puffer          *
```

```
9070 REM * SECWRITE,drive,track,sector *
9075 REM *          and puffer          *
9080 REM * SETFORMAT,format             *
9090 REM * SHOWFORMAT                   *
9100 REM * ERRORON                      *
9110 REM * ERROROFF                     *
9120 REM * PEEK(&A16C) = Fehlerflag     *
9130 REM *                              *

9140 REM ********************************
9150 MEMORY &9FFF: BORDER 0,26
9160 summe=0
9170 FOR i=&A000 TO &A1B0
9180 READ a$
9190 wert=VAL("&"+a$)
9200 POKE i,wert
9210 summe=summe+wert
9220 NEXT i
9230 '
9240 BORDER 0,0:INK 0,0: INK 1,26
9250 IF summe=49692 THEN CALL &A000:RETU
RN
9260 '
9270 PRINT "!! FEHLER IM MASCHINENPRORAM
M !!"
9280 STOP
9290 '
9300 DATA 01,09,A0,21,4F,A0,C3,D1,BC,1D
9310 DATA A0,C3,CE,A0,C3,DA,A0,C3,53,A0
9320 DATA C3,59,A0,C3,5F,A0,C3,A4,A0,53
9330 DATA 45,43,52,45,41,C4,53,45,43,57
9340 DATA 52,49,54,C5,45,52,52,4F,52,4F
9350 DATA 46,C6,45,52,52,4F,52,4F,CE,53
9360 DATA 45,54,46,4F,52,4D,41,D4,53,48
9370 DATA 4F,57,46,4F,52,4D,41,D4,00,FC
9380 DATA A6,09,A0,3E,00,32,6D,A1,C9,3E
9390 DATA 01,32,6D,A1,C9,F5,3E,00,32,6C
9400 DATA A1,F1,FE,01,C2,45,A1,DD,7E,01
9410 DATA DD,7E,00,FE,00,CA,83,A0,FE,01
9420 DATA CA,8E,A0,FE,02,CA,99,A0,C3,45
9430 DATA A1,3E,0A,32,15,A1,3E,40,32,1A
9440 DATA A1,C9,3E,0A,32,15,A1,3E,C0,32
9450 DATA 1A,A1,C9,3E,09,32,15,A1,3E,00
9460 DATA 32,1A,A1,C9,3A,1A,A1,FE,C0,CA
9470 DATA B7,A0,FE,40,CA,BD,A0,21,A6,A1
9480 DATA C3,C0,A0,21,99,A1,C3,C0,A0,21
9490 DATA 84,A1,7E,FE,00,CA,CD,A0,CD,5A
9500 DATA BB,23,C3,C0,A0,C9,CD,E6,A0,3E
9510 DATA 84,32,6B,A1,CD,28,A1,C9,CD,E6
9520 DATA A0,3E,85,32,6B,A1,CD,28,A1,C9
9530 DATA F5,3E,00,32,6C,A1,F1,FE,04,C2
9540 DATA 44,A1,DD,7E,07,DD,7E,06,FE,02
9550 DATA D2,44,A1,32,63,A1,DD,7E,05,DD
9560 DATA 7E,04,FE,28,D2,44,A1,32,64,A1
9570 DATA DD,7E,03,DD,7E,02,FE,0A,D2,44
9580 DATA A1,CE,40,32,65,A1,DD,66,01,DD
9590 DATA 6E,00,22,66,A1,C9,21,6B,A1,CD
9600 DATA D4,BC,22,68,A1,79,32,6A,A1,21
9610 DATA 63,A1,5E,23,56,23,4E,2A,66,A1
9620 DATA DF,68,A1,C9,E1,3E,FF,32,6C,A1
9630 DATA 3A,6D,A1,FE,00,CA,62,A1,21,6E
9640 DATA A1,7E,FE,00,CA,62,A1,CD,5A,BB
9650 DATA 23,C3,55,A1,C9,00,00,41,00,90
9660 DATA 3C,C0,07,84,FF,01,21,21,21,50
9670 DATA 61,72,61,6D,65,74,65,72,66,65
9680 DATA 68,6C,65,72,21,21,07,00,41,4D
9690 DATA 53,44,4F,53,2F,56,45,4E,44,4F
9700 DATA 52,2D,46,6F,72,6D,61,74,00,44
9710 DATA 41,54,45,4E,2D,46,6F,72,6D,61
9720 DATA 74,00,49,42,4D,2D,46,6F,72,6D
9730 DATA 61,74,00
9740 REM ********************************
```