```
10 REM *********        DISCCOPY 1.1  ***
   ********************                    [373E]
20 REM **
                        **                 [731C]
30 REM **   by D. Babirat / Sternstr. 16
    / 2300 Kiel 1   **                     [8888]
40 REM **            alle Rechte beim Aut
   or                **                    [EFA2]
50 REM **
                        **                 [1822]
60 REM ************************************
   ********************                    [40D0]
70 REM                                     [0AD6]
80 MEMORY &9F00                            [E60C]
90 MODE 2:INK 0,18:INK 1,0:BORDER 16:OUT
    &BC00,1:OUT &BD00,0                    [6E7A]
95 MB807=PEEK(&B807):MB808=PEEK(&B808)     [C200]
```

Listing 1. Der Basic-Teil von Disccopy

```
100 GOSUB 1980:REM *** BILDSCHIRM AUFBAU
    EN                                                    [088E]
110 WINDOW#0,3,52,8,19:WINDOW#2,5,52,23,
    23:WINDOW#3,59,75,9,21                                [D1A8]
120 DIM MERK(44,10):SYMBOL 251,0,126,126
    ,102,102,126,126,0                                    [1168]
130 LOAD"DISCCOPY.BIN":LOAD"DISCFORM.BIN
    "                                                     [23F2]
140 FOR zeile=0 TO 40:OUT &BC00,1:OUT &B
    D00,zeile:FOR t=1 TO 10:NEXT:NEXT                     [517E]
150 REM                                                   [5D34]
160 REM * DATENABFRAGE *                                  [7F46]
170 REM                                                   [6B38]
180 CLS#2:PRINT#2,"<15>TASTE DRUECKEN !"
    :CALL &BB06:CLS#2:CLS#0                               [37EA]
190 LOCATE 14,6:PRINT"(A)lte Daten einle
    sen oder"                                             [2808]
200 LOCATE 14,8:PRINT"(N)eue Diskette ko
    pieren "                                              [996C]
210 LOCATE 14,10:PRINT"(C)atalog ?"                       [60E6]
220 a$=""                                                 [D474]
230 a$=UPPER$(INKEY$):IF a$=""THEN 230                    [03DE]
240 IF a$="N"THEN 305                                     [0940]
250 IF a$="C"THEN 2160                                    [308E]
255 IF a$<>"A"THEN 190                                    [ECB0]
260 old=1:CLS#0:LOCATE 7,12:PRINT"Abbruc
    h mit <RETURN>":LOCATE 7,10:INPUT"NA
    ME der einzulesenden Datendatei ",na
    me$                                                   [35DE]
270 IF LEN(name$)=0 THEN CLS#0:old=0:GOT
    O 190                                                 [6002]
280 CLS#0:LOCATE 4,10:PRINT"Bitte Datend
    iskette einlegen und Taste druecken"
    :CALL &BB06                                           [F328]
290 CLS#0:LOCATE 14,10:PRINT"Lese Daten
    fuer ";UPPER$(name$)                                  [D40E]
300 OPENIN name$:INPUT#9,MAXTRACK:FOR tr
    ack=0 TO 43:FOR sec=0 TO 9:INPUT#9,m
    erk(track,sec):NEXT sec:NEXT track:C
    LOSEIN                                                [0D6E]
305 CLS#0                                                 [5FDA]
310 LOCATE 17,8:PRINT"(E)in Laufwerk":LO
    CATE 17,10:PRINT"(Z)wei Laufwerke"                    [8AF2]
320 a$=""                                                 [D676]
330 a$=UPPER$(INKEY$):IF a$=""THEN 330                    [4AE2]
340 IF A$="E"THEN QDRIVE=0:ZDRIVE=0:GOTO
     410                                                  [2C76]
345 IF A$="Z" THEN TWODRIVE=1 ELSE GOTO
    310                                                   [0FA4]
360 CLS#0:LOCATE 13,8:PRINT"Drive A nach
     Drive B<2>(1)":LOCATE 13,10:PRINT"D
    rive B nach Drive A<2>(2)"                            [8010]
370 a$=""                                                 [D580]
380 a$=UPPER$(INKEY$):IF a$=""THEN 380                    [73F6]
390 IF A$="1" THEN QDRIVE=0:ZDRIVE=1:DIR
    $="Drive A - Drive B":GOTO 410                        [365E]
395 IF A$="2" THEN QDRIVE=1:ZDRIVE=0:DIR
    $="Drive B - Drive A":GOTO 410                        [006A]
400 GOTO 360                                              [BD4C]
410 IF OLD THEN GOSUB 1900 ELSE 440                       [BE3A]
420 IF TWODRIVE THEN 430 ELSE 960                         [15CE]
430 CLS#2:PRINT#2,"Bitte QUELL- und ZIEL
     1010                                                 [90BA]
440 CLS#0                                                 [3DDA]
450 LOCATE 14,8:PRINT"(N)ormale Kopie":L
    OCATE 14,10:PRINT"(E)rweiterte Kopie
    "                                                     [A568]
460 a$=""                                                 [BC80]
470 a$=UPPER$(INKEY$):IF a$=""THEN 470                    [7DF6]
480 IF A$="N"THEN MAXTRACK=39:MINTRACK=0
    :MAXSEC=9:GOTO 500                                    [1416]
485 IF a$<>"E"THEN 450                                    [0CC0]
490 MAXTRACK=43:MINTRACK=0:MAXSEC=10:EXT
    END=1                                                 [248A]
500 CLS#0:LOCATE 8,10:PRINT"Von Spur ":m
    intrack;" bis Spur ";maxtrack;" test
    en (J/N) ?"                                           [5E46]
510 a$=""                                                 [D778]
520 a$=UPPER$(INKEY$):IF a$=""THEN 520                    [03E6]
530 IF A$="J"THEN 570                                     [F504]
540 CLS#0:LOCATE 14,8:INPUT"ERSTE zu tes
    tende Spur ",mintrack                                 [72A8]
545 IF mintrack<0 THEN 540                                [B574]
550 LOCATE 14,10:INPUT"LETZTE zu testend
    e Spur (max. 43) ",maxtrack                           [E6A4]
560 IF maxtrack>43 THEN 550                               [F3E6]
570 CLS#3:CLS#0                                           [D3C6]
580 PRINT#3:PRINT#3                                       [8D7A]
590 IF TWODRIVE THEN PRINT#3,DIR$ELSE PR
    INT#3,"Ein Laufwerk"                                  [F8F6]
600 PRINT#3:PRINT#3,"Von Spur :";mintrac
    k                                                     [5322]
610 PRINT#3:PRINT#3,"bis Spur :";maxtrac
    k                                                     [593E]
620 PRINT#3:PRINT#3,"bearbeiten "                         [BCB2]
630 PRINT#3:IF EXTEND THEN PRINT#3,"ERWE
    ITERTE Kopie"ELSE PRINT#3,"NORMALE K
    opie"                                                 [6CD2]
640 IF TWODRIVE=0 THEN 660                                [51AA]
650 CLS#0:CLS#2:PRINT#2,"Bitte QUELL- un
    d ZIELDISKETTE einlegen !":CALL &BB0
    6:GOTO 680                                            [B758]
660 CLS#0:CLS#2:PRINT#2,"<5>Bitte QUELLD
    ISKETTE einlegen !":CALL &BB06                        [D368]
670 REM                                                   [7F42]
680 REM * SECTORENTEST *                                  [46F2]
```

```
690 REM                                                    [6546]
700 CLS#0:CLS#2                                            [A6BA]
710 CALL &BB54:PRINT#2:PRINT#2,CHR$(233)
    +"- Sector geschuetzt // "+CHR$(251)
    +"- Sector ungeschuetzt"                               [E81E]
720 LOCATE 7,1:PRINT"<---------- Getestet
    e Spuren ------------>"                                [9FC4]
721 LOCATE 2,3:PRINT"S":LOCATE 2,4:PRINT
    "e":LOCATE 2,5:PRINT"c":LOCATE 2,6:P
    RINT"t"                                                [589A]
722 LOCATE 2,7:PRINT"o":LOCATE 2,8:PRINT
    "r":LOCATE 2;9:PRINT"e":LOCATE 2,10:
    PRINT"n"                                               [9F54]
730 CALL &BB57                                             [9518]
740 POKE &BE66,1:REM *** 1 LESEVERSUCH                     [93EC]
750 POKE &A0D6,0:POKE &A0D7,&70:REM ***
    PUFFERBEREICH                                          [C0C4]
760 CALL &A04E:REM *** FEHLERMELDUNGEN A
    US                                                     [1A86]
770 FOR TRACK=MINTRACK TO MAXTRACK:REM *
    ** TRACKSCHLEIFE                                      [A644]
780 POKE &A89F,0:POKE &A0D3,QDRIVE:POKE
    &A0D4,TRACK:CALL &A0AC:REM * ID                        [86EA]
810 CALL &BB57:IF PEEK(&A89F)=0 THEN 940
    :REM *** NEXT TRACK                                    [3962]
820 SECTOR=PEEK(&A89F):REM *** SECTORSCH
    LEIFE                                                  [3C94]
825 IF SECTOR=1 THEN HSEC=8                                [1566]
826 IF SECTOR=65 THEN HSEC=73                              [2040]
827 IF SECTOR=193 THEN HSEC=201                            [89F8]
830 LOCATE 1,1:REM *** KEIN SCROLL                         [7826]
840 POKE &A0D2,0:REM *** ERRORFLAG ZURUE
    CKSETZEN                                               [252C]
850 POKE &A0D5,SECTOR                                      [C430]
860 CALL &A076:REM *** LESEVERSUCH                         [A746]
870 IF PEEK(&A0D2)<>255 THEN 910:REM ***
     LESBARER SECTOR                                       [E058]
880 SECTOR=SECTOR+1:IF SECTOR<256 THEN 8
    30 ELSE sector=256:GOTO 920                            [682C]
890 REM                                                    [654A]
900 REM * LESBARER SECTOR GEFUNDEN *                       [14FA]
910 REM                                                    [A93C]
920 MERK(TRACK,COUNTER)=SECTOR                             [6712]
921 IF sector=256 THEN 930                                 [79C0]
925 IF SECTOR>HSEC THEN SIGN=233 ELSE SI
    GN=251                                                 [0508]
926 IF TRACK>39 THEN SIGN=233                              [A208]
927 CALL &BB54:LOCATE TRACK+5,COUNTER+3:
    PRINT CHR$(SIGN)::CALL &BB57:SIGN=32
                                                           [55C0]
930 COUNTER=COUNTER+1:IF COUNTER<MAXSEC
    THEN 880:REM *** MAXIMALSECTOREN                       [C7E4]
940 LOCATE 1,1:COUNTER=0:NEXT TRACK                        [8FF0]
950 REM                                                    [7D44]
960 REM * FORMATIEREN DER ZIELDISKETTE *
                                                           [B07E]
970 REM                                                    [0B48]
980 CALL &BB54:POKE &BB06,&CF:POKE &BB07
    ,MBB07:POKE &BB08,MBB08                                [3F80]
990 IF TWODRIVE THEN 1030                                  [2530]
1000 CLS#2:PRINT#2," ZIELDISKETTE einleg
     en - FORMATIERUNG folgt !":CALL &BB
     06                                                    [327E]
1010 REM                                                   [2D8C]
1020 CLS#2:PRINT#2,"<12>Formatiere Zield
     iskette "                                             [ABCA]
1030 CALL &A04E                                            [6E60]
1040 POKE &A1ED,ZDRIVE:REM **** LAUFWERK
      WAEHLEN                                              [83C0]
1050 FOR TRACK=mintrack TO MAXTRACK                        [096C]
1060 POKE &A1EE,TRACK:REM *** TRACK WAEH
     LEN                                                   [9ADC]
1070 FOR SECTOR=0 TO 9                                     [E290]
1080 IF MERK(TRACK,0)=0 THEN 1160:REM **
     * NICHT FORMATIERT                                    [9FF8]
1090 IF MERK(TRACK,SECTOR)=256 THEN 1110
                                                           [BD2C]
1100 POKE &A1EF+SECTOR,MERK(TRACK,SECTOR
     ):REM *** SECTORENTABELLE                             [7748]
1110 NEXT                                                  [D644]
1120 POKE &A0D2,0:REM *** ERRORFLAG ZURU
     ECK                                                   [03CA]
1130 LOCATE 1,1:CALL &BB57                                 [AEAE]
1140 CALL &A100                                            [E334]
1150 CALL &A03A:IF PEEK(&A0D2)<>0 THEN C
     ALL &BB54:CLS#2:LOCATE 20,23:PRINT#
     2,"<8>DISKETTENFEHLER ":CALL &BB06:
     CLS#2:GOTO 1030                                       [43A6]
1160 NEXT TRACK                                            [4978]
1170 REM                                                   [3B9A]
1180 REM * LESEROUTINE *                                   [75A2]
1190 REM                                                   [719E]
1200 POKE &BE66,4:REM *** 4 LESEVERSUCHE
                                                           [A4D2]
1210 IF TWODRIVE THEN 1240:REM *** TWO D
     RIVES                                                 [BC00]
1220 CLS#2:PRINT#2,"<8>Bitte QUELLDISKET
     TE einlegen !":CALL &BB06                             [B49C]
1230 CLS#2                                                 [C33A]
1240 TRACK=MINTRACK:COUNT=0:REM *** ERST
     E SPUR                                                [B3D6]
1250 PUFFER=13000:REM *** PUFFER                           [960A]
1260 IF MERK(TRACK,0)=0 THEN TRACK=TRACK
     +1:IF TRACK>=maxtrack THEN 1470 ELS
     E 1260                                                [93D2]
1270 CALL &BB54:PRINT#2,"<8>Lese Quelldi
```

```
    skette - Track :";track                                    [EAB4]
1280 FOR LOOP=0 TO 9:REM *** 10 SECTOREN
     JE SPUR                                                   [131C]
1290 SECTOR=MERK(TRACK,LOOP):REM *** SEC
     TORNUMMER                                                 [C8A8]
1300 IF SECTOR=0 THEN 1420                                     [F00C]
1310 IF SECTOR=256 THEN 1420                                   [8BE8]
1320 CALL &A04E                                                [6F64]
1330 POKE &A0D7,INT(PUFFER/256):REM ***
     HIGHBYTE PUFFER                                           [7FB8]
1340 POKE &A0D6,ABS(PUFFER-(PUFFER/256)*
     256):REM *** LOWBYTE PUFFER                               [A24C]
1350 POKE &A0D3,0DRIVE:POKE &A0D4,TRACK                        [BCEC]
1360 POKE &A0D5,SECTOR                                         [978A]
1370 POKE &A0D2,0:REM *** ERRORFLAG ZURU
     ECK                                                       [63D8]
1380 LOCATE 1,1:CALL &BB57                                     [F3BC]
1390 CALL &A076:REM *** READ SECTOR                            [052A]
1400 CALL &A03A:IF PEEK(&A0D2)<>0 THEN C
     ALL &BB54:CLS#2:PRINT#2,"<8>DISKETT
     ENFEHLER ":CALL &BB06:CLS#2:PRINT#2
     ,"<8>Lese Quelldiskette - Track :":
     GOTO 1320                                                 [493E]
1410 PUFFER=PUFFER+512:REM *** PLATZ FUE
     R SECTOR                                                  [BE3E]
1420 NEXT LOOP:REM *** LESEN                                   [74A6]
1430 COUNT=COUNT+1:REM *** ZAEHLER SPURE
     N                                                         [9FEE]
1440 IF COUNT=6 THEN 1470:REM *** 6 SPUR
     EN,SCHREIBEN                                              [053A]
1450 TRACK=TRACK+1:IF TRACK=43 THEN 1470
     :REM *** LETZTE SPUR,SCHREIBEN                            [370E]
1460 GOTO 1260:REM *** NAECHSTE SPUR LES
     EN                                                        [AF6A]
1470 REM                                                       [33A0]
1480 REM * SCHREIBROUTINE *                                    [3156]
1490 REM                                                       [8DA4]
1500 IF TWODRIVE THEN 1530                                     [9E82]
1510 CLS#2:PRINT#2,"<8>Bitte ZIELDISKETT
     E einlegen !":CALL &BB06                                  [E102]
1520 CLS#2                                                     [C43E]
1530 TRACK=MINTRACK:COUNT=0:REM *** ERST
     E SPUR                                                    [26DA]
1540 PUFFER=13000:REM *** PUFFER                               [970E]
1550 IF MERK(TRACK,0)=0 THEN TRACK=TRACK
     +1:IF TRACK>=maxtrack THEN 1770 ELS
     E 1550                                                    [EFE0]
1560 CALL &BB54:CLS#2:PRINT#2,"<8>Schrei
     be Zieldiskette - Track :";track                          [F5F4]
1570 FOR LOOP=0 TO 9:REM *** 10 SECTOREN
     JE SPUR                                                   [2620]
1580 SECTOR=MERK(TRACK,LOOP):REM *** SEC
     TORNUMMER                                                 [C9AC]
1590 IF SECTOR=0 THEN 1710                                     [6026]
1600 IF SECTOR=256 THEN 1710                                   [EFF0]
1610 CALL &A04E:REM *** ERROR OFF                              [F22A]
1620 POKE &A0D7,INT(PUFFER/256)                                [D78C]
1630 POKE &A0D6,ABS(PUFFER-(PUFFER/256)*
     256)                                                      [F77C]
1640 POKE &A0D3,ZDRIVE:POKE &A0D4,TRACK                        [6802]
1650 POKE &A0D5,SECTOR                                         [E48E]
1660 POKE &A0D2,0:REM *** ERRORFLAG ZURU
     ECK                                                       [B0DC]
1670 LOCATE 1,1:CALL &BB57                                     [1CC0]
1680 CALL &A091:REM *** SCHREIBEN                              [2336]
1690 CALL &A03A:IF PEEK(&A0D2)<>0 THEN C
     ALL &BB54:CLS#2:PRINT#2,"<8>DISKETT
     ENFEHLER ":CALL &BB06:CLS#2:PRINT#2
     ,"<8>Schreibe Zieldiskette - Track
     :":GOTO 1610                                              [5DB2]
1700 PUFFER=PUFFER+512:REM *** PLACE FOR
     SECTOR                                                    [D660]
1710 NEXT LOOP:REM *** READ NEXT SECTOR                        [AB92]
1720 COUNT=COUNT+1:REM *** COUNTER FOR T
     RACKS                                                     [3B00]
1730 IF COUNT=6 THEN 1760:REM *** IF TRA
     CK 6 THEN BACK                                            [4852]
1740 TRACK=TRACK+1:IF TRACK=43 THEN 1770
     :REM *** END OF PROGRAMM                                  [B038]
1750 GOTO 1550                                                 [7422]
1760 MINTRACK=MINTRACK+6:GOTO 1210:REM *
     ** READ NEXT TRACK                                        [E702]
1770 CLS#2:INPUT#2,"Diskettendaten speic
     hern (J/N) ";WAHL$                                        [3A60]
1780 IF UPPER$(WAHL$)<>"J"THEN 1830                            [A826]
1790 CLS#2:INPUT#2,"<8>Bitte NAMEN einge
     ben ",name$                                               [3458]
1800 CLS#2:PRINT#2,"SPEICHERDISKETTE ein
     legen - Taste druecken !":CALL &BB0
     6                                                         [5FD2]
1810 POKE &A0D3,0:POKE &A0D4,0:CALL &A0A
     C                                                         [1050]
1820 OPENOUT name$:WRITE#9,MAXTRACK:FOR
     track=0 TO 43:FOR sec=0 TO 9:WRITE#
     9,merk(track,sec):NEXT sec:NEXT tra
     ck:CLOSEOUT                                               [814E]
1830 CLS#2:INPUT#2,"<6>Weitere Kopien (J
     /N)";wahl$                                                [3920]
1840 IF UPPER$(wahl$)="J"THEN CLS#2:CLS#
     0:CLS#3:CALL &BB54:GOTO 190                               [2FAA]
1850 FOR z=25 TO 1 STEP-1                                      [91C2]
1860 OUT &BC00,6:OUT &BD00,z:FOR t=1 TO
     30:NEXT                                                   [FCB4]
```

```
1870 NEXT                                                    [335E]
1880 MODE 1:PRINT"<9>Auf Wiedersehen !"                      [3F04]
1890 FOR t=1 TO 2000:NEXT:CALL 0                             [5F3E]
1900 REM                                                     [4E9C]
1910 REM * AUSGABE GESPEICHERTER DATEN *
                                                             [14E2]
1920 REM                                                     [4CA0]
1930 CLS#0:LOCATE 7,1:PRINT"<---------- G
     etestete Spuren ------------>"                          [6A0A]
1940 FOR TRACK=0 TO 43:                                      [90B6]
1941 S=MERK(TRACK,0):IF S=0 THEN 1960                        [3970]
1942 IF S=1 THEN HS=8                                        [EEBE]
1943 IF S=65 THEN HS=73                                      [5698]
1944 IF S=193 THEN HS=201                                    [0150]
1945 FOR LOOP=0 TO 9:SEC=MERK(TRACK,LOOP
     ):IF SEC=0 THEN 1948                                    [5FC0]
1946 IF SEC=256 THEN SIGN=32 ELSE IF SEC
     >HS THEN SIGN=233 ELSE SIGN=251                         [4D94]
1947 LOCATE TRACK+5,LOOP+3:PRINT CHR$(SI
     GN);                                                    [B116]
1948 NEXT LOOP                                               [A01E]
1960 NEXT TRACK                                              [0188]
1970 RETURN                                                  [C0A2]
1980 REM * KOPIERRECHTSVERMERKE UND BILD
     SCHIRM *                                                [4B0C]
1990 LOCATE 8,8:PRINT"Dies Programm dien
     t zum Erstellen von "                                   [6BDA]
2000 LOCATE 12,10:PRINT"Sicherheits-und
     Arbeitskopien."                                         [7484]
2010 LOCATE 7,12:PRINT"Der Autor weist a
     usdruecklich darauf hin,"                               [2686]
2020 LOCATE 7,14:PRINT"dass Missbrauch s
     trafrechtlich verfolgt "                                [8514]
2030 LOCATE 20,16:PRINT"werden kann !"                       [DB96]
2040 DATA &f5,&c5,&d5,&e5,&21,&00,&c0,&1
     1,&00,&40,&01,&ff,&3f,&ed,&b0                           [3C8A]
2050 DATA &e1,&d1,&c1,&f1,&c9,&f5,&c5,&d
     5,&e5,&21,&00,&40,&11,&00,&c0                           [D72E]
2060 DATA &01,&ff,&3f,&ed,&b0,&e1,&d1,&c
     1,&f1,&c9                                               [107A]
2070 RESTORE 2040:FOR adr=&9FD0 TO &9FF7
     :READ dat:POKE adr,dat:NEXT                             [F126]
2080 PLOT 6,6:DRAWR 0,64:DRAWR 432,0:DRA
     WR 0,-64:DRAWR-432,-0                                   [9A4C]
2090 PLOT 6,76:DRAWR 0,224:DRAWR 432,0:D
     RAWR 0,-224:DRAWR-432,0                                 [E91A]
2100 PLOT 6,310:DRAWR 0,80:DRAWR 624,0:D
     RAWR 0,-80:DRAWR-624,0                                  [8CA4]
2110 PLOT 452,6:DRAWR 0,294:DRAWR 178,0:
     DRAWR 0,-294:DRAWR-178,0                                [72A0]
2115 IF PEEK(6)<>128 THEN 2155                               [D12A]
2120 POKE &B1CB,0:POKE &B1CF,&F0:POKE &B
     1D0,&F:REM *** MODE 0 BUCHSTABEN                        [2F2A]
2130 LOCATE 2,4:PRINT"DISC-COPY 1.1":POK
     E &B1CB,&2:REM *** IN MODE 2 SCHREI
     BEN                                                     [77EB]
2140 LOCATE 60,5:PRINT"von D.Babirat"                        [C356]
2150 RETURN                                                  [8E90]
2155 LOCATE 16,4:PRINT"DISC-COPY 1.1 fue
     r CPC 664/6128 von D.Babirat"                           [CB28]
2156 RETURN                                                  [949C]
2160 REM                                                     [219A]
2170 REM * CATALOG *                                         [10FA]
2180 REM                                                     [1B9E]
2190 CALL &9FD0:REM **** BILDSCHIRM RETT
     EN                                                      [9434]
2200 WINDOW#0,1,79,7,25:CLS#0                                [C1DA]
2210 CAT                                                     [347A]
2220 PRINT"TASTE DRUECKEN ":CALL &BB06                       [5C9E]
2240 WINDOW#0,3,52,8,19:WINDOW#3,59,75,9
     ,21                                                     [C91A]
2250 CALL &9FE4:REM **** BILDSCHIRM ZURU
     ECK                                                     [48E6]
2260 GOTO 190                                                [6CBA]
```

Listing 1. Der Basic-Teil von Disccopy (Schluß)

```
100 '*****************************************
    *                                         [F97C]
101 '* DISCFORM.DAT - DATA-Lader von 'CPC'
    *                                         [8F3C]
102 '*****************************************
    *                                         [7800]
103 '                                         [DEB6]
104 DATA A100,F5,C5,D5,E5,21,E9,A1,CD,5C13    [8DD2]
105 DATA A108,D4,BC,22,EA,A1,79,32,EC,4884    [1ADC]
106 DATA A110,A1,21,F9,A1,3A,EE,A1,77,4EAD    [D9E4]
107 DATA A118,23,3E,00,77,23,3A,EF,A1,19FF    [48A0]
108 DATA A120,77,23,3E,02,77,23,3A,EE,370E    [3760]
109 DATA A128,A1,77,23,3E,00,77,23,3A,4B60    [AB38]
110 DATA A130,F4,A1,77,23,3E,02,77,23,5FA5    [AD54]
111 DATA A138,3A,EE,A1,77,23,3E,00,77,3447    [B362]
112 DATA A140,23,3A,F0,A1,77,23,3E,02,085A    [9738]
113 DATA A148,77,23,3A,EE,A1,77,23,3E,3E4C    [A6AC]
114 DATA A150,00,77,23,3A,F5,A1,77,23,1FE1    [684E]
```

Listing 3. Die Formatier-Routine zu Disccopy

```
115 DATA A158,3E,02,77,23,3A,EE,A1,77,100D   [F878]
116 DATA A160,23,3E,00,77,23,3A,F1,A1,19C3   [D146]
117 DATA A168,77,23,3E,02,77,23,3A,EE,370E   [4A78]
118 DATA A170,A1,77,23,3E,00,77,23,3A,4B60   [5A32]
119 DATA A178,F6,A1,77,23,3E,02,77,23,5EA5   [C480]
120 DATA A180,3A,EE,A1,77,23,3E,00,77,3447   [D05C]
121 DATA A188,23,3A,F2,A1,77,23,3E,02,0B1A   [4C4C]
122 DATA A190,77,23,3A,EE,A1,77,23,3E,3E4C   [55A6]
123 DATA A198,00,77,23,3A,F7,A1,77,23,1FF1   [B86C]
124 DATA A1A0,3E,02,77,23,3A,EE,A1,77,100D   [3F80]
125 DATA A1A8,23,3E,00,77,23,3A,F3,A1,19C7   [0E78]
126 DATA A1B0,77,23,3E,02,77,23,3A,EE,370E   [F180]
127 DATA A1B8,A1,77,23,3E,00,77,23,3A,4B60   [5558]
128 DATA A1C0,F8,A1,77,23,3E,02,77,3A,59BC   [8EB0]
129 DATA A1C8,ED,A1,5F,3A,EE,A1,57,3A,53E0   [E524]
130 DATA A1D0,EF,A1,4F,3E,0A,47,21,F9,5437   [B8C0]
131 DATA A1D8,A1,32,A0,A8,3E,14,32,A2,43E6   [6582]
132 DATA A1E0,A8,DF,EA,A1,E1,D1,C1,F1,71AF   [4546]
133 DATA A1E8,C9,86,00,00,00,00,00,00,4500   [10BE]
134 DATA *Ende*                              [8784]
135 adr=&A100:zeile=104                      [2994]
136 MEMORY &A0FF                             [ACAC]
137 READ d$                                  [32FE]
138 IF d$="*Ende*"THEN 151                   [8D54]
139 pr=0                                     [9018]
140 FOR i=1 TO 8                             [075C]
141 READ a$:a=VAL("&"+a$)                    [E33A]
142 POKE adr,a:adr=adr+1                     [9116]
143 pr=pr*2:IF pr>65535 THEN pr=pr-65535     [4896]
144 pr=UNT(pr)XOR a:IF pr<0 THEN pr=pr+6553
    6                                        [15AE]
145 NEXT i                                   [2704]
146 READ pr$:pr2=VAL("&"+pr$):IF pr2<0 THEN
     pr2=pr2+65536                           [8690]
147 IF pr<>pr2 THEN 150                      [D3C0]
148 zeile=zeile+1                            [0010]
149 GOTO 137                                 [E664]
150 PRINT"Pruefsummenfehler in Zeile";zeile
    :STOP                                    [35F0]
151 SAVE"discform.bin",b,&A100,&F0:END       [98E6]
```

Listing 3. Die Formatier-Routine zu Disccopy (Schluß)

```
100 '*****************************************
    *                                          [F97C]
101 '* DISCCOPY.DAT - DATA-Lader von 'CPC'      [674A]
    *
102 '*****************************************
    *                                          [7B80]
103 '                                          [DEB6]
104 DATA A000,01,09,A0,21,36,A0,C3,D1,16B7     [331E]
105 DATA A008,BC,1A,A0,C3,3A,A0,C3,4E,422B     [5BAE]
106 DATA A010,A0,C3,76,A0,C3,91,A0,C3,61DF     [C198]
107 DATA A018,AC,A0,45,52,52,4F,52,2E,70A6     [D774]
108 DATA A020,4F,CE,45,52,52,4F,52,2E,1AA6     [6C98]
109 DATA A028,4F,46,C6,52,45,41,C4,57,2913     [223E]
110 DATA A030,52,49,54,C5,49,C4,00,00,3CC8     [3A2C]
111 DATA A038,00,00,F5,E5,2A,C3,A0,22,13CE     [0A68]
112 DATA A040,07,BB,3A,C5,A0,32,06,BB,232F     [CB86]
113 DATA A048,CD,57,BB,E1,F1,C9,F5,E5,6F93     [542A]
114 DATA A050,2A,07,BB,22,C3,A0,3A,06,056A     [2F62]
115 DATA A058,BB,32,C5,A0,21,6D,A0,22,427E     [5082]
116 DATA A060,07,BB,3E,C3,32,06,BB,CD,2683     [D9AE]
117 DATA A068,54,BB,E1,F1,C9,3E,FF,32,108C     [FFF2]
118 DATA A070,D2,A0,3E,43,37,C9,F5,C5,4143     [B786]
119 DATA A078,D5,E5,3A,D3,A0,5F,3A,D4,5D6C     [D612]
120 DATA A080,A0,57,3A,D5,A0,4F,2A,D6,4B6E     [33CA]
121 DATA A088,A0,DF,C6,A0,E1,D1,C1,F1,703F     [FDEC]
122 DATA A090,C9,F5,C5,D5,E5,3A,D3,A0,4AF6     [3B08]
123 DATA A098,5F,3A,D4,A0,57,3A,D5,A0,32DA     [F6D4]
124 DATA A0A0,4F,2A,D6,A0,DF,C9,A0,E1,39BD     [7C2C]
125 DATA A0A8,D1,C1,F1,C9,F5,C5,D5,E5,4F83     [B81E]
126 DATA A0B0,3A,D3,A0,5F,3A,D4,A0,57,3BA7     [9EDE]
127 DATA A0B8,DF,CC,A0,DF,CF,A0,E1,D1,409B     [3E74]
128 DATA A0C0,C1,F1,C9,00,00,00,66,C6,45EA     [A080]
129 DATA A0C8,07,4E,C6,07,63,C7,07,6C,08D6     [4CA6]
130 DATA A0D0,C5,07,00,00,00,00,00,00,6340     [B996]
131 DATA *Ende*                                [6F7E]
132 adr=&A000:zeile=104                        [D18C]
133 MEMORY &9FFF                               [6FC2]
134 READ d$                                    [7AF8]
135 IF d$="*Ende*"THEN 148                     [E35A]
136 pr=0                                       [5712]
137 FOR i=1 TO 8                               [2668]
138 READ a$:a=VAL("&"+a$)                      [EB46]
139 POKE adr,a:adr=adr+1                       [8422]
140 pr=pr*2:IF pr>65535 THEN pr=pr-65535       [D390]
141 pr=UNT(pr)XOR a:IF pr<0 THEN pr=pr+6553
    6                                          [3AA8]
142 NEXT i                                     [3BFE]
143 READ pr$:pr2=VAL("&"+pr$):IF pr2<0 THEN
    pr2=pr2+65536                              [568A]
144 IF pr<>pr2 THEN 147                        [9CC6]
145 zeile=zeile+1                              [300A]
146 GOTO 134                                   [CB58]
147 PRINT"Pruefsummenfehler in Zeile";zeile
    :STOP                                      [3AFC]
148 SAVE"disccopy.bin",b,&A000,&DB:END         [BE0A]
```

Listing 2. Die Assembler-Routinen als Data-Lader