

```

100 '*****
      *
101 '• DISK-RSX.DAT - DATA-Lader von 'CPC'
      *
102 '*****
      *
103 '
104 DATA A000,01,09,A0,21,3A,A0,C3,D1,16D7
105 DATA A000,BC,1D,A0,C3,3E,A0,C3,8B,438D
106 DATA A010,A0,C3,95,A0,C3,AF,A0,C3,7D47
107 DATA A018,DB,A0,C3,FB,A0,46,4F,52,5684
108 DATA A020,4D,41,D4,52,45,41,C4,57,2B93
109 DATA A028,52,49,54,C5,47,45,54,49,3E5D
110 DATA A030,C4,43,41,4C,CC,55,53,45,79F7
111 DATA A038,D2,00,00,00,00,00,FE,0C,68F0
112 DATA A040,C0,DD,56,00,DD,5E,02,DD,5AC9
113 DATA A048,7E,04,D5,F5,4A,11,16,00,29CB
114 DATA A050,DD,E5,E1,19,51,DD,21,1F,48D1
115 DATA A058,A1,47,7E,DD,72,00,DD,36,414C
116 DATA A060,01,00,DD,77,02,DD,36,03,1F5B
117 DATA A068,02,DD,23,DD,23,DD,23,DD,3D07
118 DATA A070,23,2B,2B,10,E5,F1,FE,09,1A39
119 DATA A078,28,04,3E,01,18,02,3E,C1,12A5
120 DATA A080,DF,0D,A1,D1,21,1F,A1,DF,7519
121 DATA A088,10,A1,C9,FE,04,C0,CD,9F,34A5
122 DATA A090,A0,DF,07,A1,C9,FE,04,C0,6848
123 DATA A098,CD,9F,A0,DF,0A,A1,C9,DD,5B2B
124 DATA A0A0,6E,06,DD,66,07,DD,5E,04,28B4
125 DATA A0A8,DD,56,02,DD,4E,00,C9,FE,758C
126 DATA A0B0,03,C0,DD,56,00,DD,5E,02,2C8A
127 DATA A0B8,DD,6E,04,DD,66,05,E5,DF,7A61
128 DATA A0C0,16,A1,E1,36,00,06,0A,E5,3CE9
129 DATA A0C8,C5,DF,13,A1,C1,E1,30,08,58D4
130 DATA A0D0,3A,51,BE,23,77,10,F0,C9,1E61
131 DATA A0D8,36,FF,C9,FE,05,C0,DD,6E,30FC
132 DATA A0E0,08,DD,66,09,E5,DD,7E,06,3BB6
133 DATA A0E8,DD,46,05,DD,4E,04,DD,56,71FC
134 DATA A0F0,03,DD,5E,02,DD,66,01,DD,3A8F
135 DATA A0F8,6E,00,C9,FE,01,C0,2A,7D,22E1
136 DATA A100,BE,23,DD,7E,00,77,C9,66,4BA8
137 DATA A108,C6,07,4E,C6,07,81,C5,07,64D1
138 DATA A110,52,C6,07,5D,C5,07,63,C7,1B85
139 DATA A118,07,72,CA,07,03,C6,07,00,053E
140 DATA *Ende*
141 adr=&A000:zeile=104
142 MEMORY &9FFF
143 READ d$
144 IF d$="*Ende*" THEN 157
145 pr=0
146 FOR i=1 TO 8
147 READ a$:a=VAL("&"+a$)
148 POKE adr,a:adr=adr+1
149 pr=pr*2:IF pr>65535 THEN pr=pr-65535
150 pr=UNT(pr)XOR a:IF pr<0 THEN pr=pr+65536
151 NEXT i
152 READ pr$:pr2=VAL("&"+pr$):IF pr2<0 THEN
pr2=pr2+65536
153 IF pr<>pr2 THEN 156
154 zeile=zeile+1
155 GOTO 143
156 PRINT"Pruefsammenfehler in Zeile";zeile
:STOP
157 SAVE"disk-rsx.bin",b,&A000,&120:END

```

**Listing 1. Für alle, die ihn noch nicht haben:
der DATA-Lader zu Disc-RSX**

```

1000 REM ----- [5F48]
1010 REM : DISC-SERVICE V1.2 : [0020]
1020 REM : : [4592]
1030 REM : Autoren: [4DC4]
1040 REM : O. Suttorp [0A52]
1050 REM : J. Glaubrecht [B88A]
1060 REM : 5024 Pulheim 1 [AB3A]
1070 REM : : [BE9C]
1080 REM : 9/86 [1B4A]
1090 REM : : [4BA0]
1100 REM : Dieses Programm ist nur : [EE1E]
1110 REM : in Verbindung mit : [6A3C]
1120 REM : "Disc-RSX" lauffaehig. : [50AA]
1150 REM ----- [9454]
1160 REM [3098]
1170 OPENOUT"d":MEMORY &5000:CLOSEOUT:LO [79D0]
AD"DISK-RSX.BIN":CALL &A000 [24F0]
1180 DIM a$(65),blo(100) [52CE]
1190 FOR I=0 TO 65:a$(i)=STRING$(32,32): [5FCE]
NEXT [4124]
1200 INK 0,0:INK 1,20:INK 2,10:INK 3,14 [38AA]
1210 BORDER 0:PAPER 0:PEN 1:MODE 1 [40CC]
1220 GOSUB 3490 [CDDA]
1230 ENV 1,3,5,1,15,-1,10 [933E]
1240 RESTORE 1240:GOSUB 3910:DATA 1,2,1, [7EA0]
0,10,31,9,19 [087C]
1250 LOCATE #1,5,2:PRINT#1,"Disc - Servi [0970]
ce" [0B46]
1260 LOCATE #1,10,4:PRINT#1,"von":PEN #1 [0946]
,3 [C3C6]
1270 LOCATE #1,3,6:PRINT#1,"Joachim Glau [5178]
brecht" [3534]
1280 PEN #1,1:LOCATE #1,10,0:PRINT#1,"un [4A1E]
d":PEN #1,3 [6088]
1290 LOCATE #1,5,10:PRINT#1,"Oliver Sutt [7C40]
orp" [0C3A]
1300 FOR i=1 TO 2000:IF INKEY#="" THEN N [6CB0]
EXT [1352]
1310 REM laufwerkabfrage ===== [5B3A]
1320 RESTORE 1320:GOSUB 3910:DATA 1,2,1, [73EC]
0,4,26,8,14 [E672]
1330 PRINT#1:PRINT #1,"<2>Mit wievielen [DE92]
Lauf-" [84AA]
1340 PRINT #1," werken arbeiten Sie ?" [16D0]
1350 DATA 1,5,5," ein Laufwerk ", "zwei L [69D2]
aufwerke",EOD [A144]
1360 RESTORE 1350:GOSUB 3660 [48D4]
1370 driveanz=aus:readdrive=0:writedrive [AEE4]
=0 [84FC]
1380 REM kopf aufbauen und laufwerke tes [7EC6]
ten ===== [31AE]
1390 DATA 7,2,0,1,2,39,2,4 [8314]
1400 RESTORE 1390:GOSUB 3910 [BB36]
1410 CLS #7:PRINT #7,"Drive<3>:";SPC(2); [74FB]
"A";SPC(6);"B";SPC(10);"Drucker" [8EE4]
1420 PRINT #7,"Format<2>:";SPC(22);"ist" [1694]
;CHR$(13);CHR$(10);"KB-frei :"; [4D2B]
1430 GOSUB 4380:IF drucker=0 THEN a$="of [CD8C]
f line" ELSE a$="on line " [48AB]
1440 PRINT#7,SPC(20);a$ [DD90]
1450 IF driveanz=1 THEN LOCATE #7,10,2:P [15EA]
RINT#7,"----":LOCATE #7,10,3:PRINT# [1488]
7,"----" [77EC]
1460 drive=0:GOSUB 4050:IF drive=0 THEN [BEBA]
GOSUB 4280:IF flag=0 THEN 1450 ELSE [FDF8]
RUN [269C]
1470 IF driveanz=1 THEN 1510
1480 drive=1:GOSUB 4050:IF drive=0 THEN
drive=1:GOSUB 4280:IF flag=0 THEN 1
480 ELSE driveanz=1:GOTO 1450
1490 drive=1:GOSUB 1530:LOCATE #7,10,2:P
RINT#7,format$
1500 LOCATE #7,17,3:PRINT#7,frei
1510 drive=0:GOSUB 1530:LOCATE #7,11,2:P
RINT#7,format$
1520 LOCATE #7,10,3:PRINT#7,frei:GOTO 15
30
1530 GOSUB 4220:format$(drive)=LEFT$(for
mat$,1)
1540 GOSUB 4140:frei(drive)=frei:RETURN
1550 REM hauptmenue =====
1560 LOCATE 1,6:PRINT CHR$(20)
1570 RESTORE 1570:GOSUB 3910:DATA 1,2,1,
0,9,31,8,22
1580 LOCATE #1,5,2:PRINT#1,"* Hauptmenue
*"
1590 DATA 1,2,6,"Directory sortieren","u
nben. Sekt. loeschen"
1600 DATA "Diskette chiffrieren","Format
convertieren"
1610 DATA "CP/M Spuren loeschen","Disket
te reorganis."
1620 DATA "Directory anzeigen","Programm
neu starten","Programm beenden",EOD
1630 RESTORE 1590:GOSUB 3660:IF aus=9 TH
EN MODE 1:END
1640 ON aus GOTO 1950,2250,3100,1650,357
0,2430,3620,1310
1650 GOSUB 3770
1660 RESTORE 1660:GOSUB 3910:DATA 1,2,1,
0,8,29,11,15
1670 PRINT#1," Format-Convertierung<2>vo
n ";a$="SYSTEM":b$="DATA"

```

Listing 2. Discservice bringt Ordnung in die Diskettenverwaltung

```

1680 IF format$(readdrive)="S" THEN PRIN [9C4C]
      T#1,a$" nach "b$:GOTO 1700 [470C]
1690 PRINT#1,b$" nach "a$:GOTO 1750
1700 FOR track=2 TO 39:of=&40:GOSUB 1840 [9E7E]
      [B26E]
1710 tr=track-2:of=&C0:GOSUB 1920:GOSUB [E0BC]
      1890
1720 NEXT track
1730 FOR tr=38 TO 39:of=&C0:GOSUB 1920:N [A6A6]
      EXT [9316]
1740 GOTO 1410 [431C]
1750 IF frei(writedrive)>8 THEN 1790 [525A]
1760 SOUND 4,150,0,0,1:PEN #1,3:PRINT#1 [998E]
1770 PRINT#1,"Zu wenig Speicherplatz" [9B8B]
1780 FOR i=1 TO 1000:NEXT:GOTO 1410
1790 drive=readdrive:GOSUB 2460:' bloeck [5596]
      e zusammenschieben [0532]
1800 FOR track=37 TO 0 STEP -1
1810 of=&C0:GOSUB 1840:tr=track+2:of=&40 [FFC2]
      [4662]
1820 GOSUB 1920:GOSUB 1890:NEXT track
1830 FOR tr=1 TO 0 STEP -1:of=&40:GOSUB [4384]
      1920:NEXT:GOTO 1410 [601C]
1840 REM track lesen ===== [3124]
1850 buffer=&7000
1860 FOR id=of+1 TO of+9:!READ,buffer,re [B7C2]
      addrive,track,id
1870 buffer=buffer+512:NEXT id:buffer=&7 [F150]
      000
1880 LOCATE #1,1,4:PRINT#1," Convertiere [B914]
      Track";track:RETURN [4F5E]
1890 REM track schreiben =====
1900 FOR id=of+1 TO of+9:!WRITE,buffer,w [B956]
      ritedrive,tr,id [8EBE]
1910 buffer=buffer+512:NEXT id:RETURN [1824]
1920 REM track formatieren =====
1930 !FORMAT,of+1,of+6,of+2,of+7,of+3,of [1906]
      +8,of+4,of+9,of+5,9,writedrive,tr [C29C]
1940 RETURN
1950 REM Directory suchen, sortieren und [71A2]
      abspeichern ===== [B6B2]
1960 GOSUB 4410 [377C]
1970 DATA 1,2,3,0,15,38,13,13
1980 RESTORE 1970:GOSUB 3910:PRINT#1,"Di [3660]
      rectory wird gelesen.;" [6960]
1990 REM drive=0: ' =====
2000 GOSUB 2720:REM Directory lesen ===== [9390]
      = [4E76]
2010 REM Speicher in a$ uebertragen =====
      =
2020 FOR i=0 TO 63:a$(i)=STRING$(32,32): [A126]
      po=@a$(i)+1:!CALL,&A627,0,32,PEEK(p [43F8]
      o)+256*PEEK(po+1),&9800+i*32:NEXT i [3FA4]
2030 REM ungebrauchte eintraege loeschen [3CE6]
      =====
2040 DATA 1,2,3,0,3,29,9,10
2050 RESTORE 2040:GOSUB 3910:PRINT#1,"Ni [2CDA]
      cht gebrauchte Eintraege werden gel [BB62]
      oescht.;" [C334]
2060 FOR i=0 TO 63:IF ASC(a$(i))>15 THEN [4114]
      a$(i)=STRING$(32,&E5) [6A68]
2070 NEXT i [028E]
2080 REM sortieren ===== [BAFE]
2090 DATA 1,2,1,0,5,20,16,16
2100 RESTORE 2090:GOSUB 3910:PRINT#1,"Di [3DDE]
      rectory wird sortiert.;" [8C5E]
2110 v=0 [C05C]
2120 FOR i=0 TO 62:IF a$(i)<=a$(i+1) THE [2B44]
      N 2140 [DE26]
2130 v=1:b$a$(i):a$(i)=a$(i+1):a$(i+1)= [EDC4]
      b$
2140 NEXT i
2150 IF v=1 THEN 2110
2160 REM a$ in speicher copieren ===== [8C1E]
2170 FOR i=0 TO 63
2180 po=@a$(i)+1
2190 !CALL,&A627,0,32,&9800+i*32,PEEK(po [0D42]
      )+256*PEEK(po+1):NEXT i [4AF4]
2200 REM neues directory schreiben =====
2210 DATA 1,2,3,0,7,24,10,12
2220 RESTORE 2210:GOSUB 3910:PRINT#1,"Di [562A]
      rectory wird aufdie Diskette zu-(2) [5CDA]
      rueckgeschrieben.;" [8B1A]
2230 FOR i=0 TO 3:!WRITE,&9800+512*i,dri [B13A]
      ve,track,sector+i:NEXT i
2240 GOTO 1560
2250 REM nicht gebrauchte blocks loesche [87B8]
      n ===== [A344]
2260 GOSUB 4410:DATA 1,2,3,0,15,38,13,15 [79A4]
2270 RESTORE 2260:GOSUB 3910:PRINT#1,"Di [BADC]
      rectory wird gelesen.;" [8900]
2280 GOSUB 2720:REM Directory lesen =====
      = [954E1]
2290 FOR i=0 TO 179:blo(i)=0:NEXT i
2300 GOSUB 2810:REM Ungebrauchte blocks [A88B]
      suchen =====
2310 REM Ungebrauchte blocks loeschen == [58EE]
      =
2320 PRINT#1,"Ungebrauchte Blocks<5>werd [
en geloescht."
2330 bis=179:IF format$(readdrive)="S" T [
HEN bis=170

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2340 POKE &9800,&E5:ICALL,&A627,0,1024,&
9801,&9800 [732A]
2350 DATA 1,2,3,0,25,34,24,24 [6770]
2360 RESTORE 2350:GOSUB 3910 [8E40]
2370 FOR I=2 TO bis [CC98]
2380 IF blo(i)=1 THEN 2410 [346E]
2390 block=i:GOSUB 2910:REM block/sector
wandel ===== [5872]
2400 PRINT#1,"Track: ";USING "##";track;
:WRITE,&9800,drive,track,sector:WR
RITE,&9800,drive,track2,sector2 [B65C]
2410 NEXT i [8F5E]
2420 GOTO 1560 [851A]
2430 REM disc reorganisieren ===== [C2BC]
2440 GOSUB 2450:GOTO 1410 [1D5C]
2450 GOSUB 4410:REM Driveabfrage [6EA9]
2460 DATA 2,3,1,2,12,28,24,24 [0276]
2470 RESTORE 2460:GOSUB 3910 [4048]
2480 PRINT#2," Bitte warten .." [6F0A]
2490 GOSUB 2720:REM directory lesen ===== [F5EA]
= [22AE]
2500 FOR i=0 TO 180:blo(i)=0:NEXT [6022]
2510 FOR i=0 TO 63 [CB0E]
2520 IF PEEK(&9800+32*i)>15 THEN 2550 [0F80]
2530 FOR j=0 TO 15:x=PEEK(&9800+32*i+16+
j):IF x=0 THEN 2550 [A18C]
2540 blo(x)=i*100+j+1:NEXT j [CE68]
2550 NEXT i [D83A]
2560 REM blocks umsortieren ===== [1CC2]
2570 bis=179:IF format$(drive)="S" THEN [F8DE]
bis=170 [4D00]
2580 FOR i=2 TO bis [B8F8]
2590 IF blo(i)<>0 THEN 2690 [FD78]
2600 FOR j=i+1 TO bis
2610 IF blo(j)=0 THEN 2680
2620 block=j:GOSUB 2910:REM block/sector
wandel ===== [406C]
2630 :READ,&8000,drive,track,sector:REA
D,&8200,drive,track2,sector2 [99EA]
2640 block=i:GOSUB 2910:REM block/sector
wandel ===== [976E]
2650 :WRITE,&8000,drive,track,sector:WR
ITE,&8200,drive,track2,sector2 [91AA]
2660 POKE &9800+16+INT(blo(j)/100)*32+((
blo(j)-1) MOD 100),i [EFBA]
2670 blo(i)=blo(j):blo(j)=0:j=bis [2EB2]
2680 NEXT j [B172]
2690 NEXT i [D972]
2700 GOSUB 2770:REM write directory to d
isc ===== [FB9C]
2710 RETURN [B094]
2720 REM directory von Workdrive nach &9
800 laden ===== [62B4]
2730 track=2:sector=65:IF format$(drive)
="D" THEN track=0:sector=193 [EA7A]
2740 FOR i=0 TO 3:READ,&9800+512*i,driv
e,track,sector+i:NEXT i [2908]
2750 RETURN [909C]
2760 REM ende des directory lesens.===== [A7D2]
2770 REM directory ins Workdrive schreib
en ===== [7868]
2780 track=2:sector=65:IF format$(drive)
="D" THEN track=0:sector=193 [ED84]
2790 FOR i=0 TO 3:WRITE,&9800+512*i,driv
e,track,sector+i:NEXT i [44F0]
2800 RETURN [C994]
2810 REM Ungebrauchte blocks suchen ===== [71C2]
= [572A]
2820 FOR i=0 TO 63 [C824]
2830 IF PEEK(&9800+32*i)>15 THEN 2890 [902A]
2840 FOR j=0 TO 15 [25B6]
2850 x=PEEK(&9800+32*i+16+j) [238C]
2860 IF x=0 THEN 2890 [8FCA]
2870 blo(x)=1 [9B76]
2880 NEXT j [EB76]
2890 NEXT i [C896]
2900 RETURN
2910 REM Block in track/sector wandeln =
===== [4840]
2920 IF format$(drive)="S" THEN 2960 [E590]
2930 track=INT(block*2/9):sector=193+((b
lock*2) MOD 9) [CAF8]
2940 sector2=sector+1:track2=track:IF se
ctor2>201 THEN sector2=193:track2=t
rack2+1 [812A]
2950 GOTO 2980 [BD38]
2960 track=INT((block*2+18)/9):sector=65
+((block*2+18) MOD 9) [7F8C]
2970 sector2=sector+1:track2=track:IF se
ctor2>73 THEN sector2=65:track2=tra
ck2+1 [5F7A]
2980 RETURN [B8A6]
2990 REM suchen eines files ===== [6E6C]
3000 GOSUB 2720:REM Directory lesen ===== [7792]
=
3010 FOR i=0 TO 63:a$(i)=STRING$(32,32):
po=@a$(i)+1:ICALL,&A627,0,32,PEEK(p
o)+256*PEEK(po+1),&9800+i*32:NEXT i [E926]
3020 file#=file#+STRING$(11,32):x=INSTR(
file#,"."):a$=file# [508C]
3030 IF x=0 THEN 3060 [B164]
3040 IF x>9 THEN 3990 [5D92]
3050 IF x<9 THEN a$=LEFT$(file#,x-1)+STR

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ING$(9-x,32)+MID$(file$,x,4) [5C86]
3060 file$=UPPER$(LEFT$(a$,8)+MID$(a$,10 [15BE]
,3)) [E77A]
3070 e=1
3080 FOR i=0 TO 63:IF file$(<)MID$(a$(i), [04DB]
2,11) THEN 3140 [9226]
3090 FOR j=0 TO 15 [5E6E]
3100 p=PEEK(&9B10+j+i*32) [B14E]
3110 IF p=0 THEN 3130 [8446]
3120 blo(e)=p:e=e+1 [8E60]
3130 NEXT j [CE60]
3140 NEXT i [694E]
3150 blo(0)=e-1 [FD10]
3160 IF blo(0)=0 THEN 3990 [8B96]
3170 RETURN [C6E4]
3180 REM daten chiffrieren =====
3190 RESTORE 3180:GOSUB 3910:DATA 1,2,1, [A8E8]
0,7,33,10,15 [FC70]
3200 PRINT#1,"<4>Daten-Chiffrierer"
3210 PRINT#1,"Was wollen Sie chiffrieren [8570]
?"
3220 DATA 1,7,4,"einzelner File","Disket [B254]
tenseite",EOD [6038]
3230 RESTORE 3220:GOSUB 3660 [F160]
3240 GOSUB 3490:IF aus=1 THEN 3320
3250 REM diskettenseite chiffrieren ===== [2A92]
= [117C]
3260 GOSUB 3770:GOSUB 3400:flag=0
3270 IF format$(readdrive)<>format$(writ [7806]
edrive) THEN flag=1
3280 of=&40:IF format$(readdrive)="D" TH [6D0A]
EN of=&C0
3290 FOR track=0 TO 39:GOSUB 1040:CALL & [19C0]
A600
3300 tr=track:buffer=&7000:IF flag THEN [78B4]
GOSUB 1920 [C1B0]
3310 GOSUB 1900:NEXT track:GOTO 1410 [6504]
3320 REM file chiffrieren =====
3330 GOSUB 4410:GOSUB 3460:GOSUB 2990:'b [78A0]
lockbelegung ermitteln [5C34]
3340 GOSUB 3400:IF blo(0)=0 THEN 1410
3350 FOR i=1 TO blo(0):block=blo(i):GOSU [3CD8]
B 2910:'block in track/sekt unrechn [B2E8]
en
3360 :READ,&7000,drive,track,sector:REA [6486]
D,&7200,drive,track2,sector2 [BA6E]
3370 CALL &A600:WRITE,&7000,drive,track [AC20]
,sector [B03E]
3380 :WRITE,&7200,drive,track2,sector2
3390 NEXT i:GOTO 1410
3400 REM codeabfrage =====
3410 RESTORE 3410:GOSUB 3910:DATA 1,2,1, [5F3E]
0,14,39,20,23
3420 PRINT#1,"Bitte Codewort eingeben : " [3EA0]
[75E8]
3430 PRINT#1:INPUT #1,code$
3440 POKE &9800,LEN(code$):FOR i=1 TO LE [9F6C]
N(code$)
3450 POKE &9800+i,ASC(MID$(code$,i,1)):N [0F5A]
EXT:RETURN [AC9C]
3460 REM filenames eingeben =====
3470 RESTORE 3470:GOSUB 3910:DATA 1,2,1, [783E]
0,3,27,0,0 [4CAC]
3480 INPUT #1,"File :";file$:RETURN [CD44]
3490 REM code fuer mc ===== [B0BA]
3500 RESTORE 3520:FOR i=&A600 TO &A629
3510 READ a$:POKE i,VAL("&"+a$):NEXT:RET [A552]
URN [E7A0]
3520 DATA 01,00,12,3A,00,9B,57,DD,21,00 [F2BE]
3530 DATA 9B,21,00,70,1E,01,7B,32,16,A6 [B78B]
3540 DATA DD,7E,12,AE,77,23,1C,7B,BA,20 [8E5A]
3550 DATA 02,1E,01,0B,7B,B1,20,EA,C9,ED [5884]
3560 DATA B0,C9 [6E44]
3570 REM CPM-loeschen ===== [B6B2]
3580 GOSUB 4410 [5D1A]
3590 IF format$(drive)<>"S" THEN 3990
3600 POKE &9800,&E5:CALL,&A627,0,1024,& [A62A]
9801,&9800
3610 FOR i=0 TO 1:FOR j=65 TO 73:WRITE, [A482]
&9800,drive,i,j:NEXT j,i:GOTO 1410 [25DA]
3620 REM Director anzeigen ===== [5DAA]
3630 GOSUB 4410
3640 WINDOW#1,1,40,6,25:WINDOW SWAP 0,1: [A7B4]
PAPER 0:CLS:IA:IF drive THEN IB
3650 :DIR:PRINT" Taste druecken.":CALL &B [2EE6]
B06:WINDOW SWAP 1,0:GOTO 1560 [5B80]
3660 REM menuesteuerung ===== [9C44]
3670 x=1:READ wind,1,o:OPEN #wind,3
3680 READ a$(x):IF a$(x)<>"EOD" THEN x=x [9248]
+1:GOTO 3680
3690 x=x-1:FOR i=1 TO x:LOCATE #wind,1,o [1C6A]
+i-1:PRINT #wind,a$(i):NEXT i:y1=o
3700 PRINT #wind,CHR$(24);:GOSUB 3740:PR [63A6]
INT #wind,CHR$(24)
3710 IF INKEY(0)=0 AND y1>o THEN GOSUB 3 [6FAA]
740:y1=y1-1:GOTO 3700
3720 IF INKEY(2)=0 AND y1<o+x-1 THEN GOS [F1AA]
UB 3740:y1=y1+1:GOTO 3700
3730 IF INKEY(9)=0 OR INKEY(18)=0 THEN 3 [E11A]
750 ELSE 3710
3740 LOCATE #wind,1,y1:PRINT #wind,a$(y1 [0C06]
-o+1):RETURN [DA74]
3750 FOR i=1 TO 100:NEXT [886A]
3760 aus=y1-o+1:CALL &BB03:RETURN
3770 REM lese schreiblaufwerk abfragen =

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===== [A54C]
3780 IF driveanz=1 THEN readdrive=0:writ [F514]
      edrive=0:RETURN
3790 RESTORE 3790:GOSUB 3910:DATA 1,2,1, [A57C]
      0,18,39,12,18
3800 PRINT #1:PRINT#1," Von welchem Lauf [4360]
      werk"
3810 PRINT #1," soll gelesen werden?" [533C]
3820 DATA 1,6,5," Laufwerk A ", " Laufwer [5788]
      k B ",EOD
3830 RESTORE 3820:GOSUB 3660 [DE50]
3840 readdrive=aus-1 [0F12]
3850 RESTORE 3850:GOSUB 3910:DATA 1,2,1, [92FE]
      0,5,28,15,21
3860 PRINT#1:PRINT#1,"<2>Auf welches Lau [7A4A]
      fwerk"
3870 PRINT#1,"soll geschrieben werden?" [3400]
3880 DATA 1,7,5," Laufwerk A ", " Laufwer [9796]
      k B ",EOD
3890 RESTORE 3880:GOSUB 3660 [1068]
3900 writedrive=aus-1:RETURN [6F5E]
3910 REM window aufbauen ===== [7482]
3920 READ wind,pa,pe,gpe,l,r,o,u [8268]
3930 WINDOW #wind,l-1,r+1,o-1,u+1:PAPER [65B2]
      #wind,pa:PEN #wind,pe
3940 CLS #wind:WINDOW #wind,l,r,o,u [9E80]
3950 a=(1-1)*16-10:b=390-(u)*16:c=(r-1+2 [3F96]
      )*16+2:d=(u-o+2)*16+2
3960 GOSUB 3970:a=a+4:b=b+4:c=c-8:d=d-8 [E0BA]
3970 PLOT a,b,gpe:DRAWR c,0:DRAWR 0,d:DR [18D2]
      AWR -c,0:DRAWR 0,-d
3980 RETURN [92A8]
3990 REM Super-stupid-User-error ===== [F684]
4000 LOCATE 1,6:PRINT CHR$(20); [264A]
4010 LOCATE 1,10:PRINT"FATALER BEDIENUNG [FB0C]
      SFEHLER":PRINT
4020 PRINT"(Super-stupid-User-error)":PR [9E8E]
      INT
4030 PRINT"Bitte eine Taste druecken !": [3594]
      CALL &BB06
4040 RUN [0DBA]
4050 REM drive test ===== [0D70]
4060 DATA &e5,&21,&00,&a2,&36,&ff,&e1,&c [1BBE]
      9
4070 RESTORE 4060:FOR i=&A201 TO &A208:R [FB3E]
      EAD j:POKE i,j:NEXT
4080 a=PEEK(&BBSA):b=PEEK(&BB5B):c=PEEK( [F704]
      &BB5C)
4090 POKE &BBSA,&C3:POKE &BB5B,&1:POKE & [1F82]
      BB5C,&A2
4100 POKE &A208,0:POKE &BE7B,&FF:'Fehler [660A]
      flag und Mess. off
4110 IF drive=0 THEN !A ELSE !B [48DE]
4120 drive=0:IF PEEK(&A208)=0 THEN drive [3254]
      =1
4130 POKE &BBSA,a:POKE &BB5B,b:POKE &BB5 [09E0]
      C,c:RETURN
4140 REM ermitteln der freien blocks == [5148]
      == [CBE6]
4150 IF drive=0 THEN !A ELSE !B [38CA]
4160 OPENOUT"d":CLOSEOUT [941A]
4170 d=drive*64:a=PEEK(&AB95+d)+1 [DC08]
4180 tabelle=&ABB9+d:used=0 [F0B2]
4190 FOR l=0 TO 22:w=PEEK(tabelle+l):anz [471E]
      =0
4200 FOR bit=0 TO 7:IF w AND 2^bit THEN [A1DC]
      anz=anz+1 [3E74]
4210 NEXT:used=used+anz:NEXT:frei=a-used [CF2C]
      :RETURN
4220 REM format ermitteln ===== [B9A0]
4230 !GETID,&9700,drive,0 [862A]
4240 IF PEEK(&9701)>&40 THEN format$="SY [E7D0]
      STEM" [A19A]
4250 IF PEEK(&9701)>&C0 THEN format$="DA [F94A]
      TA"
4260 IF PEEK(&9700)<>0 THEN format$="kei [1E00]
      ns" [2D44]
4270 RETURN [6C2A]
4280 REM fehlermeldung ===== [E5CA]
4290 RESTORE 4290:GOSUB 3910:DATA 1,2,1, [B046]
      3,9,31,12,17
4300 SOUND 4,319,0,0,1 [74D8]
4310 PRINT#1,"Bitte Diskette in Lauf-"; [6A48]
4320 PRINT#1,"<2>werk ";:IF drive=0 THEN [2016]
      a$="A" ELSE a$="B" [949C]
4330 PRINT#1,a$;" einlegen !" [29F8]
4340 DATA 1,6,4," wiederholen ", "<2>abbr [1E32]
      echen<2>",EOD [8D90]
4350 RESTORE 4340:GOSUB 3660 [A0B4]
4360 flag=1:IF aus=1 THEN flag=0 [E7F4]
4370 RETURN [E456]
4380 REM druckerabfrage ===== [4C66]
4390 drucker=1:IF INP(&F500)AND 64 THEN [FD86]
      drucker=0 [2850]
4400 RETURN [7F0E]
4410 REM welches drive ? =====
4420 IF driveanz=1 THEN drive=0:RETURN
4430 RESTORE 4430:GOSUB 3910:DATA 1,2,1,
      0,19,39,15,20
4440 PRINT #1,"Welches Laufwerk soll<2>b
      enutzt werden ?"
4450 DATA 1,6,4,"Laufwerk A","Laufwerk B
      ",EOD
4460 RESTORE 4450:GOSUB 3660
4470 drive=aus-1:RETURN

```

Listing 2. Discservice (Schluß)