

```

10000 REM *****
10001 REM * EDITOR/ASSEMBLER *
10002 REM * (c) 17. JUNI 1985 *
10003 REM * by *
10004 REM * MARK BEINKER *
10005 REM *****
10006 REM
10010 KEY 1,"goto 10020"+CHR$(13):KEY 0,"goto 10030"+CHR$(13):DEFI
NT b-y:MEMORY &9FFF:DIM a$(650):DIM l$(1,200):DIM l(650):a=0:lab=0
:runf=0
10020 MODE 2:LOCATE 23,2:PRINT"SCHNEIDER CPC 464 EDITOR/ASSEMBLER"
:LOCATE 32,4:PRINT CHR$(164)" 17. JUNI 1985":LOCATE 32,6:PRINT"by
MARK BEINKER":PRINT:PRINT STRING$(80,"-"):PRINT
10030 ende=0:LINE INPUT a$
10040 l=LEN(a$):IF l=0 THEN 10030
10050 IF LEFT$(a$,1)<"0"OR LEFT$(a$,1)>"9"THEN 10300
10060 z=VAL(a$):IF z>2^16-1 THEN PRINT"Integer out of range":GOTO
10030
10070 sp=INSTR(a$," "):IF sp=0 THEN 10100
10080 FOR f=sp+1 TO l:IF MID$(a$,f,1)=" "THEN NEXT f
10090 a$=LEFT$(a$,sp)+MID$(a$,f):l=LEN(a$):sp=INSTR(sp+1,a$," "):I
F sp<>0 THEN 10080
10100 p=1:WHILE VAL(a$(p))<z AND p<=a:p=p+1:WEND
10110 lz=1:WHILE (MID$(a$,lz,1)>="0" AND MID$(a$,lz,1)<="9")AND lz
<=l:lz=lz+1:WEND
10120 IF lz>1 THEN IF VAL(a$(p))<z THEN PRINT"Line does not exist
":GOTO 10030 ELSE FOR f=p TO a:a$(f)=a$(f+1):NEXT a=a-1:GOTO 10030
10130 IF MID$(a$,lz,1)<>" "THEN sp$=CHR$(3)+" " ELSE sp$=CHR$(3)
10140 z$=STR$(z):a$=MID$(z$,2,LEN(z$)-1)+sp$+RIGHT$(a$,l-lz+1)
10150 l=LEN(a$):f1=INSTR(a$,CHR$(34)):f2=INSTR(a$,";")
10160 f=MIN(f1,f2)
10170 IF f1=0 THEN f=f2
10180 IF f2=0 THEN f=f1
10190 IF f=0 THEN a$=UPPER$(a$):f=LEN(a$):GOTO 10210
10200 a$=UPPER$(LEFT$(a$,f))+RIGHT$(a$,l-f)
10210 FOR i=1 TO f:x=ASC(MID$(a$,i,1)):IF x>32 AND(x<48 OR x>57)TH
EN 10230
10220 NEXT i:GOTO 10260
10230 IF x=58 THEN a$=LEFT$(a$,i-1)+CHR$(1)+RIGHT$(a$,l-i+1):io=i:
i=INSTR(i+1,a$," ")
10240 IF i=0 THEN ER=1:GOTO 13680
10250 IF i-io>12 THEN ER=2:GOTO 13680
10260 a$=LEFT$(a$,i-1)+CHR$(2)+RIGHT$(a$,l-i+1)
10270 IF VAL(a$(p))=z THEN a$(p)=a$:GOTO 10030
10280 a=a+1:FOR f=a TO p+1 STEP -1:a$(f)=a$(f-1):NEXT a$(p)=a$
10290 GOTO 10030
10300 a$=UPPER$(a$)
10310 IF LEFT$(a$,4)="LIST"THEN 10410
10320 IF LEFT$(a$,5)="BASIC"THEN END
10330 IF LEFT$(a$,8)="ASSEMBLE"THEN 10580
10340 IF LEFT$(a$,3)="RUN"THEN 13660
10350 IF LEFT$(a$,5)="RENUM"THEN 13270
10360 IF LEFT$(a$,4)="SAVE"THEN 13410
10370 IF LEFT$(a$,4)="LOAD"THEN 13570
10380 IF LEFT$(a$,3)="NEW"THEN RUN
10390 PRINT"Syntax error"
10400 x=REMAIN(0):WHILE INKEY$<>"":WEND:PRINT TAB(0)"Ready":GOTO 1
0030
10410 EVERY 5 GOSUB 13820:a$=MID$(a$,5):FOR f=1 TO LEN(a$):IF MID$(
a$,f,1)<>" "THEN 10420 ELSE NEXT:st=0:en=VAL(a$(a)):GOTO 10450
10420 IF MID$(a$,f,1)="-"THEN st=0:z=VAL(MID$(a$,f+1)):IF z=0 THEN
PRINT"Improper argument":GOTO 10400 ELSE en=z:GOTO 10450
10430 st=VAL(MID$(a$,f)):x=INSTR(a$,"-"):IF x<>0 THEN en=VAL(MID$(
a$,x+1)):IF en=0 THEN en=VAL(a$(a))ELSE ELSE en=st
10440 IF st=0 OR en=0 THEN PRINT"Improper argument":GOTO 10400
10450 FOR f=1 TO a:IF VAL(a$(f))>=st THEN GOTO 10460 ELSE NEXT
10460 st=f:FOR f=a TO 1 STEP -1:IF VAL(a$(f))<=en THEN GOTO 10470 E
LSE NEXT
10470 en=f
10480 FOR f=st TO en:GOSUB 10510
10490 IF ende THEN PRINT:PRINT"Break":GOTO 10400
10500 NEXT:GOTO 10400
10510 z$=MID$(STR$(VAL(a$(f))),2):PRINT RIGHT$("0000"+z$,5):s=LEN
(z$)+1
10520 FOR l=s TO LEN(a$(f)):x=ASC(MID$(a$(f),l,1))
10530 IF x=1 THEN PRINT TAB(7):GOTO 10560
10540 IF x=2 THEN PRINT TAB(19):GOTO 10560
10550 PRINT CHR$(x);
10560 NEXT:PRINT CHR$(13):RETURN
10570 GOTO 10030
10580 runf=0:IF a=0 THEN 10400
10590 add=0:sv=0
10600 adr=&A000:ada=adr:lb=0:i=0:f=0:zl=1:lab=1:lbs=0:l$(0,1)="#&"
+HEX$(adr):l(0)=adr
10610 zt=adr:IF zt<0 THEN zt=zt+2^16
10620 a$=a$(1):GOSUB 11440
10630 IF LEFT$(c$,4)<>"ORG"THEN er=3:GOTO 13680
10640 n$=MID$(c$,5):GOSUB 11500:IF z=-1 THEN er=4:GOTO 13680 ELSE
IF sv THEN zrs=z:add=zrs-zt:GOTO 12550 ELSE 12550
10650 a$=a$(zl):GOSUB 11450:GOSUB 11440:IF l$=""THEN 10750

```

```

10660 IF LEFT$(c$,4)="EQU "OR LEFT$(c$,5)="DEFL "THEN 10680
10670 GOSUB 11740:IF f=lab+1 THEN lab=lab+1:l$(0,lab)=l$+"&"+HEX$(
adr):GOTO 10760 ELSE er=8:GOTO 13680
10680 IF LEFT$(c$,5)="DEFL "THEN 10710
10690 n$=MID$(c$,5):GOSUB 11500:IF z=-1 THEN er=4:GOTO 13680
10700 GOSUB 11740:IF f=lab+1 THEN lab=lab+1:l$(0,lab)="+"+l$+"&"+H
EX$(z):GOTO 12550 ELSE er=8:GOTO 13680
10710 l$="*"+l$:n$=MID$(c$,6):GOSUB 11500:IF z=-1 THEN er=4:GOTO 1
3680
10720 GOSUB 11740:IF f<=lab THEN 10740
10730 lab=lab+1:l$(0,lab)=l$+"&"+HEX$(z):GOTO 12550
10740 l$(0,f)=l$+"&"+HEX$(z):GOTO 12550
10750 IF LEFT$(c$,3)="END"THEN FOR f=z1 TO a:l(f)=adr:NEXT:z1=a:GO
TO 12550
10760 IF LEFT$(c$,3)="DEF"THEN 13160
10770 IF LEFT$(c$,1)="A"THEN 12600
10780 IF LEFT$(c$,4)="BIT "THEN 12020
10790 IF LEFT$(c$,1)="C"THEN 12050
10800 IF LEFT$(c$,1)="D"THEN 12170
10810 IF LEFT$(c$,1)="E"THEN 12240
10820 IF LEFT$(c$,4)="HALT"THEN POKE adr,118:adr=adr+1:GOTO 12550
10830 IF LEFT$(c$,1)="I"THEN 12280
10840 IF LEFT$(c$,1)="J"THEN 12350
10850 IF LEFT$(c$,2)="LD"THEN 11780
10860 IF LEFT$(c$,2)="LD"THEN 11780
10870 IF LEFT$(c$,1)="N"THEN 12440
10880 IF LEFT$(c$,1)="O"THEN 12460
10890 IF LEFT$(c$,1)="P"THEN 12810
10900 IF LEFT$(c$,1)="R"THEN 12860
10910 IF LEFT$(c$,1)="S"THEN 12990
10920 IF LEFT$(c$,4)="XOR "THEN 13140
10930 GOTO 12530
10940 GOSUB 11240:INPUT"Listing ausgeben? (j/n) ",x$:IF UPPER$(x$)
<>"J"THEN i1060
10950 EVERY 5 GOSUB 13820:ado=ada:FOR f=1 TO a:al=1(f-1):IF al<0 T
HEN al=al+2^16
10960 PRINT HEX$(add+al,4);:FOR i=ado TO 1(f)-1:PRINT" "HEX$(PEEK(
i),2);:NEXT i:ado=1(f)
10970 PRINT TAB(19);
10980 z$=MID$(STR$(VAL(a$(f))),2):s=LEN(z$)+1:PRINT RIGHT$("0000"+
z$,5);
10990 FOR l=s TO LEN(a$(f)):x=ASC(MID$(a$(f),l,1))
11000 IF x=1 THEN PRINT TAB(25);:GOTO 11030
11010 IF x=2 THEN PRINT TAB(37);:GOTO 11030
11020 PRINT CHR$(x);
11030 NEXT l:PRINT CHR$(13)
11040 IF ende THEN PRINT:PRINT"Break":GOTO 10400
11050 NEXT f
11060 PRINT:FOR f=1 TO lab:l1=INSTR(l$(0,f),"&"):l2=INSTR(l1+1,l$(
0,f),"&"):IF l2=0 THEN l2=5 ELSE l2=l2-11
11070 z=VAL(MID$(l$(0,f),l1,l2)):IF z<0 THEN z=z+2^16
11080 IF LEFT$(l$(0,f),1)="" THEN z=z+add
11090 l$=LEFT$(l$(0,f),l1-1):w$=HEX$(z):PRINT" "l$TAB(14)w$:NEXT:P
RINT:RETURN
11100 IF x$<>:"AND x$<>#" THEN 11210
11110 IF x$="#" THEN z=VAL(MID$(l$(0,1),2)):IF z<0 THEN z=z+2^16:RE
TURN ELSE RETURN
11120 n=INSTR(n$,"")-1:IF n<>-1 THEN n$=LEFT$(n$,n)
11130 n=INSTR(n$," "):IF n>11 OR n=0 THEN n=11
11140 x$=LEFT$(n$,n)
11150 FOR t=1 TO lab:IF LEFT$(l$(0,t),1)<>"*" THEN 11190
11160 l=INSTR(l$(0,t),"&"):k$=MID$(l$(0,t),2,l-2):IF k$<>x$ THEN 11
190
11170 z=VAL(MID$(l$(0,t),1)):IF z<0 THEN z=z+2^16
11180 RETURN
11190 NEXT
11200 lbf=-1:lbs=lbs+1:l$(1,lbs)=CHR$(dd)+LEFT$(n$,n):z=0:RETURN
11210 IF x$<>CHR$(34) THEN z=-1:RETURN
11220 IF dd=0 THEN z=ASC(MID$(n$,2,1)):RETURN
11230 l=INSTR(2,n$,CHR$(34)):IF l>=4 THEN z=ASC(MID$(n$,2,1))*256+
ASC(MID$(n$,3,1)):RETURN ELSE z=ASC(MID$(n$,2,1)):RETURN
11240 FOR f=1 TO lbs:d=ASC(l$(1,f)):k$=MID$(l$(1,f),2)
11250 x=INSTR(k$,"&"):x$=MID$(k$,x):k$=LEFT$(k$,x-1)
11260 FOR i=1 TO lab:l$=l$(0,i):l=INSTR(l$,"&"):p=INSTR(l$,"+")
11270 IF p=1 THEN IF k$=MID$(l$,2,l-2) THEN 11300 ELSE 11290
11280 IF k$=LEFT$(l$,l-1) THEN 11300
11290 NEXT i:z1=VAL(x$):er=10:GOTO 13680
11300 l$=VAL(x$):z=VAL(MID$(l$,1)):IF z<0 THEN z=z+2^16
11310 IF p<>1 THEN z=z+add
11320 IF d=1 THEN 11410
11330 a$=a$(z1):GOSUB 11440
11340 IF LEFT$(c$,5)<>"DJNZ "AND LEFT$(c$,3)<>"JR " THEN 11400
11350 ad=1(z1):IF ad<0 THEN ad=ad+2^16
11360 ad=ad+add
11370 z=z-ad:IF z>127 THEN 11420
11380 IF z<0 THEN z=256+z:IF z<128 THEN 11420
11390 POKE 1(z1)-1,z:GOTO 11430
11400 IF z<=255 THEN POKE 1(z1)-1,z:GOTO 11430
11410 IF d=1 AND z<=65535 THEN z1=INT(z/256):POKE 1(z1)-1,z1:POKE
1(z1)-2,z-256*z1:GOTO 11430
11420 er=11:GOTO 13680
11430 NEXT f:RETURN
11440 c=INSTR(a$,CHR$(2)):c$=RIGHT$(a$,LEN(a$)-c):RETURN
11450 l1=INSTR(a$,CHR$(1))+1:IF l1=1 THEN l$="":RETURN ELSE l2=INS
TR(a$,CHR$(2)):l$=MID$(a$,l1,l2-l1):RETURN
11460 dd=0:x$=LEFT$(n$,1):IF NOT(x$="&"OR(x$>="0"AND x$<="9")) THEN
11100
11470 z=INT(VAL(n$)):IF z<0 THEN z=z+2^16
11480 IF z>255 OR z<0 THEN z=-1:RETURN
11490 RETURN
11500 dd=1:x$=LEFT$(n$,1):IF NOT(x$="&"OR(x$>="0"AND x$<="9")) THEN
11100
11510 z=INT(VAL(n$)):IF z<0 THEN z=z+2^16
11520 IF z>65535 OR z<0 THEN z=-1:RETURN
11530 RETURN
11540 RESTORE 11600:FOR f=0 TO 7:READ x$:con$=MID$(r$,LEN(x$)+1,1)
:IF x$=LEFT$(r$,LEN(x$)) THEN IF con$<>" "AND con$<>" "AND con$<>"",
" THEN f=-1:RETURN ELSE RETURN
11550 NEXT f
11560 x$=MID$(r$,3,1):IF LEFT$(r$,2)="(I"AND(x$="X"OR x$="Y") THEN
i=-1:f=6 ELSE f=-1:RETURN
11570 IF x$="X" THEN POKE adr,221 ELSE POKE adr,253
11580 adr=adr+1:IF MID$(r$,4,1)="+ " THEN n$=MID$(r$,5):GOSUB 11460
ELSE IF MID$(r$,4,1)="" THEN z=0 ELSE f=-1:RETURN
11590 IF z<0 OR z>255 OR INSTR(4,r$,"")=0 THEN f=-1:RETURN ELSE d
=z:RETURN
11600 DATA B,C,D,E,H,L,(HL),A

```

```

11610 RESTORE 11660:FOR f=0 TO 3:READ x$:IF x$=r$ THEN ii=0:RETURN
11620 NEXT f
11630 IF r$="IX"THEN POKE adr,221:adr=adr+1:f=2:ii=1:RETURN
11640 IF r$="IY"THEN POKE adr,253:adr=adr+1:f=2:ii=2:RETURN
11650 f=-1:RETURN
11660 DATA BC,DE,HL,SP
11670 FOR f=1 TO anz:READ x$,x:IF x$=LEFT$(c$,LEN(x$))THEN POKE ad
r,x:adr=adr+1:RETURN
11680 NEXT f:f=-1:RETURN
11690 FOR f=1 TO anz:READ x$,x1,x2:IF x$=LEFT$(c$,LEN(x$))THEN POK
E adr,x1:POKE adr+1,x2:adr=adr+2:RETURN
11700 NEXT f:f=-1:RETURN
11710 RESTORE 11730:FOR f=0 TO 7:READ x$:IF x$=LEFT$(b$,LEN(x$)) T
HEN RETURN
11720 NEXT f:f=-1:RETURN
11730 DATA NZ,Z,NC,C,PO,PE,P,M
11740 FOR f=2 TO lab:c=INSTR(1$(0,f),":"):IF 1$=MID$(1$(0,f),c,INS
TR(1$(0,f),"&")-c)THEN RETURN ELSE NEXT:RETURN
11750 x$=LEFT$(n$,1):IF NOT(x$="&"OR(x$>="0"AND x$<="9"))THEN z=-1
:RETURN
11760 z=INT(VAL(n$)):IF z<0 THEN z=z+2^16
11770 RETURN
11780 anz=4:RESTORE 11790:GOSUB 11690:IF f<>-1 THEN 12550
11790 DATA LDDR,237,184,LDD,237,168,LDIR,237,176,LDI,237,160
11800 c$=MID$(c$,4):anz=5:RESTORE 11810:GOSUB 11670:IF f<>-1 THEN
12550
11810 DATA "(BC),A",2,"(DE),A",18,"A,(BC)",10,"A,(DE)",26,"SP,HL"
,249
11820 anz=6:RESTORE 11830:GOSUB 11690:IF f<>-1 THEN 12550
11830 DATA "A,I",237,87,"I,A",237,71,"A,R",237,95,"R,A",237,79,"SP
,IX",221,249,"SP,IY",253,249
11840 anz=5:RESTORE 11850:GOSUB 11670:IF f<>-1 THEN 12550
11850 DATA "(BC),A",2,"(DE),A",18,"A,(BC)",10,"A,(DE)",26,"SP,HL"
,249
11860 r$=LEFT$(c$,2):GOSUB 11610
11870 IF f=2 AND MID$(c$,3,2)="("THEN n$=MID$(c$,5):GOSUB 11500:I
F z<>-1 THEN z1=INT(z/256):z2=z-z1*256:POKE adr,42:POKE adr+1,z2:P
OKE adr+2,z1:adr=adr+3:GOTO 12550
11880 IF f<>-1 AND MID$(c$,3,2)="("THEN n$=MID$(c$,5):GOSUB 11500
:IF z<>-1 THEN z1=INT(z/256):z2=z-z1*256:POKE adr,237:POKE adr+1,f
*16+75:POKE adr+2,z2:POKE adr+3,z1:adr=adr+4:GOTO 12550
11890 IF f<>-1 AND MID$(c$,3,1)="("THEN n$=MID$(c$,4):GOSUB 11500:
IF z<>-1 THEN z1=INT(z/256):z2=z-z1*256:POKE adr,f*16+1:POKE adr+1
,z2:POKE adr+2,z1:adr=adr+3:GOTO 12550
11900 r$=c$:GOSUB 11540
11910 IF f<>-1 THEN n$=MID$(c$,INSTR(c$,"")+1):GOSUB 11460:IF z<>
-1 THEN POKE adr,6+f*8:POKE adr+1,z:adr=adr+2:IF i THEN POKE adr-1
,d:POKE adr,z:i=0:adr=adr+1:GOTO 12550 ELSE GOTO 12550
11920 IF f<>-1 THEN r$=MID$(c$,INSTR(c$,"")+1):f1=f:GOSUB 11540:I
F f<>-1 THEN IF f=6 AND f1=6 THEN er=6:GOTO 13680 ELSE POKE adr,64
+f1*8+f:adr=adr+1:GOTO 12550
11930 IF LEFT$(c$,3)="A("THEN n$=MID$(c$,4):GOSUB 11500:IF z<>-1
THEN z1=INT(z/256):z2=z-z1*256:POKE adr,58:POKE adr+1,z2:POKE adr+
2,z1:adr=adr+3:GOTO 12550

```

```

11940 IF LEFT$(c$,1)=""("THEN n$=MID$(c$,2):GOSUB 11500 ELSE 12530
11950 c$=MID$(c$, INSTR(c$, ",")+1):IF c$=""OR z=-1 THEN 12530
11960 z1=INT(z/256):z2=z-z1*256
11970 IF LEFT$(c$,1)="A"THEN POKE adr,50:POKE adr+1,z2:POKE adr+2,
z1:adr=adr+3:GOTO 12550
11980 r$=c$:GOSUB 11610
11990 IF f=2 THEN POKE adr,34:POKE adr+1,z2:POKE adr+2,z1:adr=adr+
3:GOTO 12550
12000 IF f<>-1 THEN POKE adr,237:POKE adr+1,f*16+67:POKE adr+2,z2:
POKE adr+3,z1:adr=adr+4:GOTO 12550
12010 GOTO 12530
12020 n$=MID$(c$,5):GOSUB 11750:IF z<0 OR z>7 THEN 12530 ELSE b=z
12030 r$=MID$(c$, INSTR(c$, ",")+1):GOSUB 11540:IF f<>-1 THEN POKE a
dr,203:IF i=-1 THEN POKE adr+1,d:POKE adr+2,70+b*8:i=0:adr=adr+3:G
OTO 12550 ELSE POKE adr+1,64+b*8+f:adr=adr+2:GOTO 12550
12040 GOTO 12530
12050 anz=2:RESTORE 12060:GOSUB 11670:IF f<>-1 THEN 12550
12060 DATA CCF,63,CPL,47
12070 anz=4:RESTORE 12080:GOSUB 11690:IF f<>-1 THEN 12550
12080 DATA CPDR,237,185,CPD,237,169,CPIR,237,177,CPI,237,161
12090 IF LEFT$(c$,3)<>"CP "THEN 12130
12100 r$=MID$(c$,4):GOSUB 11540:IF f<>-1 THEN POKE adr,184+f:adr=a
dr+1:GOTO 12550
12110 n$=r$:GOSUB 11460:IF z<>-1 THEN POKE adr,254:POKE adr+1,z:ad
r=adr+2:GOTO 12550
12120 GOTO 12530
12130 IF LEFT$(c$,5)<>"CALL "THEN 12530
12140 n$=MID$(c$,6):GOSUB 11500:IF z<>-1 THEN z1=INT(z/256):z2=z-z
56*z1:POKE adr,205:POKE adr+1,z2:POKE adr+2,z1:adr=adr+3:GOTO 1255
0
12150 b$=MID$(c$,6):n$=MID$(c$, INSTR(c$, ",")+1):GOSUB 11710:GOSUB
11500:IF f<>-1 AND z<>-1 THEN z1=INT(z/256):z2=z-256*z1:POKE adr,1
96+b*8:f:POKE adr+1,z2:POKE adr+2,z1:adr=adr+3:GOTO 12550
12160 GOTO 12530
12170 anz=2:RESTORE 12180:GOSUB 11670:IF f<>-1 THEN 12550
12180 DATA DAA,39,DI,243
12190 IF LEFT$(c$,4)<>"DEC "THEN 12220
12200 r$=MID$(c$,5):GOSUB 11610:IF f<>-1 THEN POKE adr,11+f*16:adr
=adr+1:GOTO 12550
12210 GOSUB 11540:IF f<>-1 THEN POKE adr,5+f*8:adr=adr+1:GOTO 1255
0 ELSE 12530
12220 IF LEFT$(c$,5)<>"DJNZ "THEN 12530
12230 n$=MID$(c$,6):GOSUB 11460:IF z<>-1 THEN POKE adr,16:POKE adr
+1,z:adr=adr+2:GOTO 12550 ELSE 12530
12240 anz=5:RESTORE 12250:GOSUB 11670:IF f<>-1 THEN 12550
12250 DATA EI,251,"EX AF,AF",8,"EX DE,HL",235,"EX (SP),HL",227,EX
X,217
12260 ANZ=2:RESTORE 12270:GOSUB 11690:IF f<>-1 THEN 12550 ELSE 125
30
12270 DATA"EX (SP),IX",221,227,"EX (SP),IY",253,227
12280 anz=7:RESTORE 12290:GOSUB 11690:IF f<>-1 THEN 12550
12290 DATA IM 0,237,70,IM 1,237,86,IM 2,237,94,INDR,237,186,IND,23
7,170,INIR,237,178,INI,237,162
12300 IF LEFT$(c$,6)="IN A,("THEN n$=MID$(c$,7, INSTR(c$, ")")-7):GO

```

```

SUB 11460: IF z<>-1 THEN POKE adr,219:POKE adr+1,z:adr=adr+2:GOTO 1
2550
12310 IF LEFT$(c$,3)="IN "THEN r$=MID$(c$,4,INSTR(c$,"")-4):GOSUB
11540: IF f<>-1 AND MID$(c$,INSTR(c$,""),4)=",(C)"AND f<>6 THEN P
OKE adr,237:POKE adr+1,64+f*8:adr=adr+2:GOTO 12550
12320 IF LEFT$(c$,4)<>"INC "THEN 12530 ELSE r$=MID$(c$,5)
12330 GOSUB 11610: IF f<>-1 THEN POKE adr,3+f*16:adr=adr+1:GOTO 125
50
12340 GOSUB 11540: IF f<>-1 THEN POKE adr,4+8*f:adr=adr+1:GOTO 1255
0 ELSE 12530
12350 IF LEFT$(c$,7)="JP (HL)"THEN POKE adr,233:adr=adr+1:GOTO 125
50
12360 anz=2:RESTORE 12370:GOSUB 11690: IF f<>-1 THEN 12550
12370 DATA JP (IX),221,233,JP (IY),253,233
12380 IF LEFT$(c$,3)<>"JR "THEN 12410
12390 b$=MID$(c$,4):n$=MID$(c$,INSTR(c$,"")+1):GOSUB 11710:GOSUB
11460: IF f<>-1 AND f<4 AND z<>-1 THEN POKE adr,32+8*f:POKE adr+1,z
:adr=adr+2:GOTO 12550
12400 n$=b$:GOSUB 11460: IF z<>-1 THEN POKE adr,24:POKE adr+1,z:adr
=adr+2:GOTO 12550 ELSE 12530
12410 IF LEFT$(c$,3)<>"JP "THEN 12530
12420 b$=MID$(c$,4):n$=MID$(c$,INSTR(c$,"")+1):GOSUB 11710:GOSUB
11500: IF f<>-1 AND z<>-1 THEN z1=INT(z/256):z2=z-256*z1:POKE adr,1
94+8*f:POKE adr+1,z2:POKE adr+2,z1::adr=adr+3:GOTO 12550
12430 n$=b$:GOSUB 11500: IF z<>-1 THEN z1=INT(z/256):z2=z-256*z1:PO
KE adr,195:POKE adr+1,z2:POKE adr+2,z1::adr=adr+3:GOTO 12550 ELSE
12530
12440 IF LEFT$(c$,3)="NEG"THEN POKE adr,237:POKE adr+1,68:adr=adr+
2:GOTO 12550
12450 IF LEFT$(c$,3)="NOP"THEN POKE adr,0:adr=adr+1:GOTO 12550 ELS
E 12530
12460 anz=4:RESTORE 12470:GOSUB 11690: IF f<>-1 THEN 12550

```

```

12470 DATA OTDR,237,187,OTIR,237,179,OUTD,237,171,OUTI,237,163
12480 IF LEFT$(c$,3)<>"OR "THEN 12510
12490 n$=MID$(c$,4):GOSUB 11460:IF z<>-1 THEN POKE adr,246:POKE ad
r+1,z:adr=adr+2:GOTO 12550
12500 r$=n$:GOSUB 11540:IF f<>-1 THEN POKE adr,176+f:adr=adr+1:GOT
O 12550 ELSE 12530
12510 IF LEFT$(c$,8)="OUT (C),"THEN r$=MID$(c$,9):GOSUB 11540:IF f
<>-1 AND f<>6 THEN POKE adr,237:POKE adr+1,65+f*8:adr=adr+2:GOTO 1
2550
12520 IF LEFT$(c$,5)<>"OUT ("THEN 12530 ELSE n$=MID$(c$,6):GOSUB 1
1460:IF z<>-1 AND MID$(c$,INSTR(c$,""),3)="),A"THEN POKE adr,211:
POKE adr+1,z:adr=adr+2:GOTO 12550 ELSE 12530
12530 IF LEFT$(c$,1)=";"THEN 12550
12540 er=7:GOTO 13680
12550 IF i THEN POKE adr,d:adr=adr+1:i=0
12560 l(z1)=adr
12570 IF adr>-2163 AND adar<0 THEN er=9:GOTO 13680
12580 IF lbf THEN l$(1,lbs)=l$(1,lbs)+"&"HEX$(z1):lbf=0
12590 f=0:i=0:z1=z1+1:IF z1<=a THEN 10650 ELSE GOSUB 10940:IF sv T
HEN 13530 ELSE runf=-1:GOTO 10400
12600 IF LEFT$(c$,4)<>"AND "THEN 12650
12610 c$=MID$(c$,5):r$=c$:GOSUB 11540
12620 IF f<>-1 THEN POKE adr,160+f:adr=adr+1:GOTO 12550
12630 n$=c$:GOSUB 11460:IF z<>-1 THEN POKE adr,230:POKE adr+1,z:ad
r=adr+2:GOTO 12550
12640 GOTO 12530
12650 IF LEFT$(c$,4)<>"ADC "THEN 12720
12660 IF MID$(c$,5,3)="HL,"THEN 12700
12670 c$=MID$(c$,7):r$=c$:GOSUB 11540:IF f<>-1 THEN POKE adr,136+f
:adr=adr+1:GOTO 12550
12680 n$=c$:GOSUB 11460:IF z<>-1 THEN POKE adr,206:POKE adr+1,z:ad
r=adr+2:GOTO 12550
12690 GOTO 12530
12700 r$=MID$(c$,8,2):GOSUB 11610:IF f<>-1 AND ii=0 THEN POKE adr,
237:POKE adr+1,74+f*16:adr=adr+2:GOTO 12550
12710 GOTO 12530
12720 c$=MID$(c$,5):IF LEFT$(c$,2)<>"A,"THEN 12750
12730 r$=MID$(c$,3):GOSUB 11540:IF f<>-1 THEN POKE adr,128+f:adr=a
dr+1:GOTO 12550
12740 n$=r$:GOSUB 11460:IF z<>-1 THEN POKE adr,198:POKE adr+1,z:ad
r=adr+2:GOTO 12550 ELSE 12530
12750 r$=MID$(c$,4,2):GOSUB 11610:IF LEFT$(c$,3)="HL,"AND ii=0 THE
N POKE adr,9+16*f:adr=adr+1:GOTO 12550
12760 IF f=2 AND ii=0 THEN 12530
12770 IF ii THEN adr=adr-1
12780 IF f<>-1 AND LEFT$(c$,2)="IX"AND ii<>2 THEN POKE adr,221:POK
E adr+1,9+16*f:adr=adr+2:GOTO 12550
12790 IF f<>-1 AND LEFT$(c$,2)="IY"AND ii<>1 THEN POKE adr,221:POK
E adr+1,9+16*f:adr=adr+2:GOTO 12550
12800 GOTO 12530
12810 IF LEFT$(c$,4)<>"POP "THEN 12830
12820 r$=MID$(c$,5,2):GOSUB 12840:IF f<>-1 THEN POKE adr,193+f*16:
adr=adr+1:GOTO 12550 ELSE 12530
12830 IF LEFT$(c$,5)<>"PUSH "THEN 12530 ELSE r$=MID$(c$,6,2):GOSUB

```

```

12840:IF f<>-1 THEN POKE adr,197+f*16:adr=adr+1:GOTO 12550 ELSE 1
2530
12840 GOSUB 11610:IF f<>-1 AND f<>3 THEN RETURN
12850 IF r$="AF"THEN f=3:RETURN ELSE f=-1:RETURN
12860 IF LEFT$(c$,4)="RET "THEN b$=MID$(c$,5):GOSUB 11710:IF f<>-1
THEN POKE adr,192+f*8:adr=adr+1:GOTO 12550
12870 anz=4:RESTORE 12880:GOSUB 11690:IF f<>-1 THEN 12550
12880 DATA RETI,237,77,RETN,237,69,RLD,237,111,RRD,237,103
12890 anz=5:RESTORE 12900:GOSUB 11670:IF f<>-1 THEN 12550
12900 DATA RET,201,RLA,23,RLCA,7,RRA,31,RRCA,15
12910 IF LEFT$(c$,4)="RST "THEN n$=MID$(c$,5):GOSUB 11750:z=z/8:IF
z>=0 AND z<=7 AND INT(z)=z THEN POKE adr,199+z*8:adr=adr+1:GOTO 1
2550
12920 IF LEFT$(c$,4)<>"RES "THEN 12950
12930 n$=MID$(c$,5):GOSUB 11750:IF z<0 OR z>7 THEN 12530 ELSE b=z
12940 r$=MID$(c$, INSTR(c$,"")+1):GOSUB 11540:IF f<>-1 THEN POKE a
dr,203:IF i=-1 THEN POKE adr+1,d:POKE adr+2,134+b*8:i=0:adr=adr+3:
GOTO 12550 ELSE POKE adr+1,128+b*8+f:adr=adr+2:GOTO 12550 ELSE 125
30
12950 r$=MID$(c$,4):GOSUB 11540:IF f<>-1 AND LEFT$(c$,3)="RL "THEN
POKE adr,203:IF i THEN POKE adr+1,d:POKE adr+2,22:adr=adr+3:i=0:G
OTO 12550 ELSE POKE adr+1,16+f:adr=adr+2:GOTO 12550
12960 IF f<>-1 AND LEFT$(c$,3)="RR "THEN POKE adr,203:IF i THEN PO
KE adr+1,d:POKE adr+2,30:adr=adr+3:i=0:GOTO 12550 ELSE POKE adr+1,
24+f:adr=adr+2:GOTO 12550
12970 r$=MID$(c$,5):GOSUB 11540:IF f<>-1 AND LEFT$(c$,4)="RLC "THE
N POKE adr,203:IF i THEN POKE adr+1,d:POKE adr+2,6:adr=adr+3:i=0:G
OTO 12550 ELSE POKE adr+1,f:adr=adr+2:GOTO 12550
12980 IF f<>-1 AND LEFT$(c$,4)="RRC "THEN POKE adr,203:IF i THEN
POKE adr+1,d:POKE adr+2,14:adr=adr+3:i=0:GOTO 12550 ELSE POKE adr+
1,8+f:adr=adr+2:GOTO 12550 ELSE 12530 ELSE 12530
12990 IF LEFT$(c$,3)="SCF"THEN POKE adr,55:adr=adr+1:GOTO 12550
13000 IF LEFT$(c$,4)<>"SET "THEN 13030
13010 n$=MID$(c$,5):GOSUB 11750:IF z<0 OR z>7 THEN 12530 ELSE b=z
13020 r$=MID$(c$, INSTR(c$,"")+1):GOSUB 11540:IF f<>-1 THEN POKE a
dr,203:IF i=-1 THEN POKE adr+1,d:POKE adr+2,198+b*8:i=0:adr=adr+3:
GOTO 12550 ELSE POKE adr+1,192+b*8+f:adr=adr+2:GOTO 12550 ELSE 125
30
13030 IF LEFT$(c$,4)<>"SBC "THEN 13070 ELSE IF LEFT$(c$,7)="SBC HL
,"THEN 13060 ELSE IF LEFT$(c$,6)<>"SBC A,"THEN 12530
13040 r$=MID$(c$,7):GOSUB 11540:IF f<>-1 THEN POKE adr,152+f:adr=a
dr+1:GOTO 12550
13050 n$=r$:GOSUB 11460:IF z<>-1 THEN POKE adr,222:POKE adr+1,z:ad
r=adr+2:GOTO 12550 ELSE 12530
13060 r$=MID$(c$,8):GOSUB 11610:IF f<>-1 AND ii=0 THEN POKE adr,23
7:POKE adr+1,66+f*16:adr=adr+2:GOTO 12550 ELSE 12530
13070 IF LEFT$(c$,4)<>"SUB "THEN 13110
13080 IF LEFT$(c$,6)="SUB A,"THEN r$=MID$(c$,7)ELSE r$=MID$(c$,5)
13090 GOSUB 11540:IF f<>-1 THEN POKE adr,144+f:adr=adr+1:GOTO 1255
0
13100 n$=r$:GOSUB 11460:IF z<>-1 THEN POKE adr,214:POKE adr+1,z:ad
r=adr+2:GOTO 12550 ELSE 12530
13110 r$=MID$(c$,5):GOSUB 11540:IF f<>-1 AND LEFT$(c$,4)="SLA "THE
N POKE adr,203:IF i THEN POKE adr+1,d:POKE adr+2,38:i=0:adr=adr+3:

```

```

GOTO 12550 ELSE POKE adr+1,32+f:adr=adr+2:GOTO 12550
13120 IF f<>-1 AND LEFT$(c$,4)="SRA "THEN POKE adr,203:IF i THEN P
OKE adr+1,d:POKE adr+2,46:i=0:adr=adr+3:GOTO 12550 ELSE POKE adr+1
,40+f:adr=adr+2:GOTO 12550
13130 IF f<>-1 AND LEFT$(c$,4)="SRL "THEN POKE adr,203:IF i THEN P
OKE adr+1,d:POKE adr+2,62:i=0:adr=adr+3:GOTO 12550 ELSE POKE adr+1
,56+f:adr=adr+2:GOTO 12550 ELSE 12530
13140 r$=MID$(c$,5):GOSUB 11540:IF f<>-1 THEN POKE adr,168+f:adr=a
dr+1:GOTO 12550
13150 n$=r$:GOSUB 11460:IF z<>-1 THEN POKE adr,238:POKE adr+1,z:ad
r=adr+2:GOTO 12550 ELSE 12530
13160 c$=MID$(c$,4):IF LEFT$(c$,2)="B "THEN n$=MID$(c$,3):GOSUB 11
460:IF z<>-1 THEN POKE adr,z:adr=adr+1:GOTO 12550
13170 IF LEFT$(c$,2)="W "THEN n$=MID$(c$,3):GOSUB 11500:IF z<>-1 T
HEN z1=INT(z/256):POKE adr,z-256*z1:POKE adr+1,z1:adr=adr+2:GOTO 1
2550
13180 IF LEFT$(c$,2)<>"S "THEN 13220
13190 n$=MID$(c$,3):GOSUB 11500:IF z=-1 THEN er=4:GOTO 13680
13200 FOR f=adr TO adr+z:POKE f,0:IF f>43900 THEN er=9:GOTO 13680
13210 NEXT f:adr=adr+z:GOTO 12550
13220 IF LEFT$(c$,2)<>"M "THEN 12530
13230 c1=INSTR(c$,CHR$(34)):c2=INSTR(c1+1,c$,CHR$(34))
13240 IF c1=0 OR c2=0 THEN er=4:GOTO 13680
13250 c$=MID$(c$,c1+1,c2-c1-1)
13260 FOR f=1 TO LEN(c$):p=ASC(MID$(c$,f,1)):POKE adr,p:adr=adr+1:
NEXT:GOTO 12550
13270 a$=MID$(a$,6):r1=VAL(a$)
13280 r=INSTR(a$,""):IF r>0 THEN r2=VAL(MID$(a$,r+1))ELSE r2=0
13290 r=INSTR(r+1,a$,""):IF r>0 THEN r3=VAL(MID$(a$,r+1))ELSE r3=
0
13300 IF r1=0 THEN r1=10
13310 IF r2=0 THEN r2=VAL(a$(1))
13320 IF r3=0 THEN r3=10
13330 IF r3*a>2^16-1 THEN PRINT"Improper argument":GOTO 10400
13340 IF r1<r2 THEN FOR f=a TO 1 STEP-1:IF VAL(a$(f))<r2 THEN 1335
0 ELSE NEXT:GOTO 13360 ELSE 13360
13350 IF r1<VAL(a$(f))THEN PRINT"Improper argument":GOTO 10400
13360 FOR f=1 TO a:z$=LEFT$(a$(f),INSTR(a$(f),CHR$(3))-1):z=VAL(z$
)
13370 IF z<r2 THEN 13400
13380 x$=STR$(r1)
13390 a$(f)=MID$(x$,2,LEN(x$)-1)+MID$(a$(f),INSTR(a$(f),CHR$(3))):
r1=r1+r3
13400 NEXT:GOTO 10400
13410 k1=INSTR(a$,CHR$(34)):k2=INSTR(k1+1,a$,CHR$(34))
13420 IF k2=0 THEN 10390
13430 k3=INSTR(a$,""):IF k3<k2 THEN 10390
13440 name$=MID$(a$,k1+1,k2-k1-1)
13450 IF MID$(a$,k3+1,1)<>"L"THEN 13510
13460 OPENOUT name$
13470 PRINT#9,a
13480 FOR f=1 TO a:PRINT#9,a$(f):NEXT f
13490 CLOSEOUT
13500 GOTO 10400

```



```

13510 IF MID$(a$,k3+1,1)<>"C" THEN 10390
13520 sv=-1:IF a=0 THEN 10400 ELSE 10600
13530 IF ada<0 THEN ada=ada+2^16
13540 IF adr<0 THEN adr=adr+2^16
13550 SAVE name$,b,ada,adr-ada+1
13560 PRINT"Der Machine Code muss"STRING$(4,8)CHR$(22)CHR$(1)"____
"CHR$(22)CHR$(0)" mit 'LOAD "CHR$(34)name$CHR$(34)","zrs"' geladen
werden.":GOTO 10400
13570 a$=MID$(a$,5):k1=INSTR(a$,CHR$(34)):k2=INSTR(k1+1,a$,CHR$(34
))
13580 IF k2=0 THEN 10390
13590 name$=MID$(a$,k1+1,k2-k1-1)
13600 ERASE a$:DIM a$(1000)
13610 OPENIN name$
13620 INPUT#9,a
13630 FOR f=1 TO a:LINE INPUT#9,a$(f):NEXT f
13640 CLOSEIN
13650 GOTO 10400
13660 IF NOT runf THEN PRINT"Kein Code im Speicher":GOTO 10400
13670 CALL VAL(MID$(1$(0,1),2)):GOTO 10400
13680 z=0:ON er GOSUB 13710,13720,13730,13740,13750,13760,13770,13
780,13790,13800,13810
13690 IF z THEN f=z1:GOSUB 10510
13700 GOTO 10030
13710 PRINT"Command missing":RETURN
13720 PRINT"Label too long":RETURN
13730 PRINT"ORG missing":RETURN
13740 PRINT"Type mismatch":z=-1:RETURN
13750 PRINT"END missing":RETURN
13760 PRINT"Invalid command":z=-1:RETURN
13770 PRINT"Unknown command":z=-1:RETURN
13780 PRINT"Label already defined":z=-1:RETURN
13790 PRINT"Machine Code too long":RETURN
13800 PRINT"Label not defined":z=-1:RETURN
13810 PRINT"Improper argument":z=-1:RETURN
13820 IF INKEY(58)<>-1 THEN ende=-1:RETURN
13830 WHILE INKEY(60)<>-1:WEND:RETURN

```