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10 REM          Data64
20 REM          by Ian C Sharpe
30 REM (c) Computing with the Amstrad
40 REM ----- CPC Only -----
50 MODE 2:DEFINT d:d0=0:d1=0:d2=0
60 ln=190:GOTO 90
70 c(m)=ASC(MID$(a$,k+m,3))-59:RETURN
80 PRINT"ERROR in LINE";ln:END
90 FOR a=850 TO &A6 STEP 18:READ a$
100 ch=0:FOR i=0 TO 8:j=i*2:k=i*3
110 FOR m=1 TO 3:GOSUB 70:ch=ch+c(m)
120 NEXT:p=a+j
130 IF c(1)>15 OR c(2)>63 OR c(3)>63 THEN
N 80
140 POKE p+1,c(1)*16+((c(2) AND 60)/4)
150 POKE p,c(3)+((c(2) AND 3)*64):NEXT
160 k=27:m=1:GOSUB 70:m=2:GOSUB 70
170 IF ch<>c(1)*64+c(2) THEN 80
180 ln=ln+10:NEXT
190 DATA AvXHoA;XaJr`Jr\;<iAVxHo<;<YEc
200 DATA @VX>s<EOz>jA>sM<G;HoM;DY@VXCZ
210 DATA >s>ER;<ZF<ZF<ZF>tJEKJ=ZF=ZFAg
220 DATA GUL<Cv>sN<C;@vXHo?;PQJ;yGi_De
230 DATA GgzGgzGgzGSz<Cv;;y<CN;>D;;;Dm

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240 INPUT"Start address: ",sa
250 INPUT" End address: ",ea
260 INPUT" File name: ",of$
270 INPUT"First line no: ",ln
280 INPUT" Step: ",st
290 OPENOUT of$:ln=ln-st:q$=CHR$(34)
300 n=st:GOSUB 580:st$=n$
310 n=ln+2*st:GOSUB 580:sb$=n$
320 n=ln+3*st:GOSUB 580:el$=n$
330 n=ln+4*st:GOSUB 580:gt$=n$
340 n=ln+14*st:GOSUB 580:ln$=n$
350 IF sa=88000 THEN m=&7FFF ELSE m=sa-1
360 GOSUB 560:PRINT#9,"MEMORY &";HEX$(m)
;":ln=";ln$;":GOTO ";gt$
370 GOSUB 560:PRINT#9,"c(m)=ASC(MID$(a$,
k+m,3))-59:RETURN"
380 GOSUB 560:PRINT#9,"PRINT";q$;"ERROR
in LINE";q$;":ln:END"
390 GOSUB 560:PRINT#9,"FOR a=&";HEX$(sa)
;" TO &";HEX$(ea);" STEP 18:READ a$"
400 GOSUB 560:PRINT#9,"ch=0:FOR i=0 TO 8
:j=i*2:k=i*3"
410 GOSUB 560:PRINT#9,"FOR m=1 TO 3:GOSU
B ";sb$;":ch=ch+c(m)"
420 GOSUB 560:PRINT#9,"NEXT:p=a+j"
430 GOSUB 560:PRINT#9,"IF c(1)>15 OR c(2
)>63 OR c(3)>63 THEN ";el$

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440 GOSUB 560:PRINT#9,"POKE p+1,c(1)*16+
((c(2) AND 60)/4)"
450 GOSUB 560:PRINT#9,"POKE p,c(3)+((c(2
) AND 3)*64):NEXT"
460 GOSUB 560:PRINT#9,"k=27:m=1:GOSUB ";
sb$;":m=2:GOSUB ";sb$
470 GOSUB 560:PRINT#9,"IF ch<>c(1)*64+c(
2) THEN ";el$
480 GOSUB 560:PRINT#9,"ln=ln+";st$;":NEX
T"
490 FOR a=sa TO ea STEP 18:GOSUB 560
500 op$="DATA ":ch=0
510 FOR i=0 TO 16 STEP 2
520 at=a:id=i:GOSUB 600:NEXT
530 POKE &45,ch MOD 256:POKE &46,ch\256
540 at=&45:id=0:f=1:GOSUB 600:PRINT#9,op
$
550 NEXT:CLOSEOUT:END
560 ln=ln+st:n=ln:GOSUB 580
570 PRINT#9,n$;" ";:RETURN
580 n$=STR$(n):n$=RIGHT$(n$,LEN(n$)-1)
590 RETURN
600 CALL &50,at+id,@d2,@d1,@d0
610 IF f=0 THEN op$=op$+CHR$(d2)
620 op$=op$+CHR$(d1)+CHR$(d0)
630 ch=ch+d2+d1+d0-177
640 f=0:RETURN

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