

Give your Expert Cartridge a boost with this handy routine

By R. Drummond

MEMORY RESTORER

A station *Expert Cartridge user!*

Have you ever tried to back-up a program, only to find half way through loading it, the computer suddenly resets or crashes?

Here is the solution to this aggravating problem: *Memory Restorer*.

terribly, some programs detect this change and cease loading. This problem can be overcome by restoring the memory to its original power-up state (alternate 32 byte blocks of 255 and 0).

How To Enter

Switch the computer on and off (or enter *Expert* and type 'N'), and then enter this line:

POKE 41,6 : POKE 40960 : NEW

This raises the bottom of the Basic memory, so that the restorer can be loaded in below it.

Now type in the Basic loader entitled "restore base" and RUN it. Correct any errors, and RUN it again.

When it is finished, you will be asked which device you wish the program to be saved to. Press '1' for tape or '2' for disk.

Well, that's 2. The Restorer should enable you to load some previously unLOADable programs, but it still does not guarantee success in loading.

If you have any problems or suggestions to make, please contact me through Your Commodore, or MEX, or on CompuNet (BCDI).

PROGRAM CONFIGURE

```

70 GO SUB *** BASIC ASSEMBLER &
  BASIC CONFIGURE (44 80FF) 100
  & ***
80 GO INPUT "NAME ASSEMBLER TO
  WHICH DEVICE?",E$
85 GO SUB #B100, V100, V100, #B000
  &
100 "B RESTORE FOR L1000 ROMS
  (L1, H1, L1, H1) (L1, H1) (L1, H1)
  L10
110 GO OF V10, L10 (H1, L1) (H1, L1)
  V10 (L1, H1) (L1, H1) (L1, H1)
120 GO NEXT L
130 "B POWER ON, 0- POWER ON, 0
  & GO PRINT "LOCAL, 0, 0, 0, 0, 0, 0"
  &
140 GO PRINT "0, 0, 0, 0, 0, 0, 0, 0, 0, 0"
  &
150 GO PRINT "0, 0, 0, 0, 0, 0, 0, 0, 0, 0"
  &
160 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
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170 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
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180 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
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190 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
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200 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
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210 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
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220 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
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230 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
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240 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
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280 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
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970 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
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980 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
  &
990 GO PRINT "100, 0, 0, 0, 0, 0, 0, 0, 0, 0"
  &

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How To Use

Program the *Expert* as normal and type 'N' to reset. Load *Memory Restorer* by typing:

LOAD "MEMORY RESTORER"
(add *X* for disk)

and then RUN it.

When instructed switch off the *Expert* and press reset. Now load the program to be copied, switch on the *Expert*, press RESTORE (press *ESM* if lights is lit), and save as normal type 'X' (program name).

How It Works

The 'N' command in the *Expert* clears the whole memory so that its computer is as efficient as possible. Unfor-

PROGRAM: RESTORE.BAS

```

01 10 A=2048:B=26:C=100
02 20 FORD=OTOS:E=0:FORF=OTOS:R
EADD
16 30 IFB<ODDQ>:SSSTHENPRINT"ERR
OR IN LINE":C=(D*10):END
07 40 FOKA+(D*B)+F,B=S+E+B:RFX
TF
38 50 READ:IFD<>:ETHENPRINT"ERR
OR IN LINE":C=(D*10)
02 60 NEXTD
70 100 DATA 16,8,188,7,158,50,4
8,54,537
40 110 DATA 54,58,82,87,88,43,0
,0,378
03 120 DATA 0,188,11,141,32,208
,141,33,738
0F 130 DATA 208,183,15,141,134,
2,183,23,851
08 140 DATA 141,34,208,188,128,
141,145,2,358
F5 150 DATA 32,68,228,180,0,188
,182,8,864
F4 160 DATA 153,0,4,200,132,34,
208,245,1038
12 170 DATA 180,0,188,73,8,153,
62,3,634
48 180 DATA 200,182,112,208,245
,76,52,3,1088
07 190 DATA 120,182,0,133,1,188
,0,133,725
FE 200 DATA 251,188,8,133,252,1
62,248,180,1383
14 210 DATA 187,188,0,145,251,1
38,132,63,1083
82 220 DATA 208,245,183,256,145
,251,138,18,1423
05 230 DATA 251,185,251,24,165,
189,133,251,1308
80 240 DATA 185,252,165,0,133,2
52,202,208,1317
04 250 DATA 222,185,252,201,132
,240,214,168,1595
9A 260 DATA 55,133,1,180,0,185,
128,3,665
78 270 DATA 153,80,4,200,132,32
,208,245,1114
2F 280 DATA 78,124,3,0,84,21,18
,14,340
75 290 DATA 32,83,21,16,5,18,20
,32,218
A1 300 DATA 78,70,70,48,32,80,1
8,5,400
0A 310 DATA 15,19,32,82,5,15,5,
80,801
83 320 DATA 48,32,32,32,0,68,24
,16,251
F8 330 DATA 5,18,20,32,77,5,13,
15,185
51 340 DATA 18,25,32,82,5,13,20
,15,216
0F 350 DATA 18,5,18,32,45,32,82
,67,239
87 360 DATA 68,48,32,43,57,68,8
5,32,389
7A 370 DATA 0,0,0,0,0,0,0,32,32
0A 380 DATA 228,255,201,48,240,
3,201,50,1233
E2 390 DATA 208,245,162,8,78,24
2,8,182,1111
53 400 DATA 1,183,1,180,0,32,18
5,255,807
79 410 DATA 183,15,162,18,160,3
,32,189,752
31 420 DATA 255,163,1,133,251,1
68,8,133,1119
85 430 DATA 252,169,251,182,218
,180,8,76,1296
6A 440 DATA 218,255,77,63,77,78
,82,89,844
03 450 DATA 32,82,83,83,84,78,8
2,69,580
22 460 DATA 82,0,0,0,0,0,0,82
80 500 PRINT"CLEIPRESS '1' TO
SAVE RESTORE TO TAPE,"
01 510 PRINT"SPC3IOR '2' TO SA
VE TO DISK."
19 520 SYS2272

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