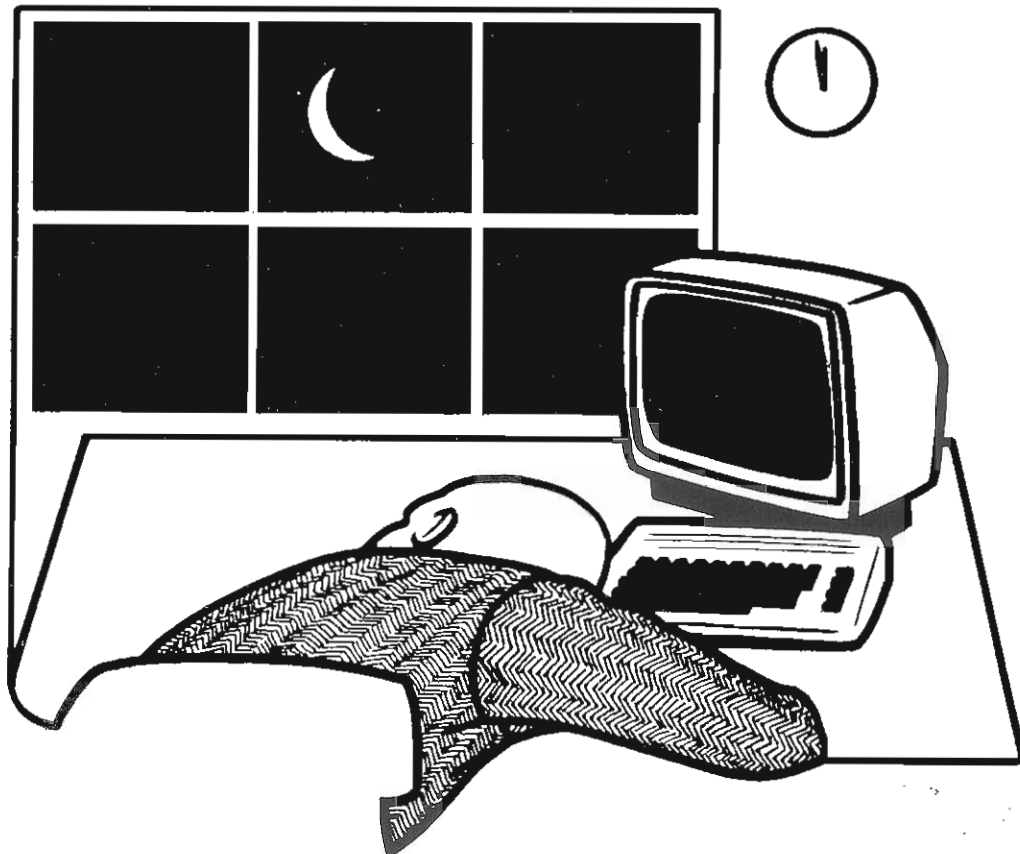


# Midnite Software Gazette

The First Independent U.S. Magazine for users of Commodore brand computers.

Includes The PAPER



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**Databases:** A complete multi-keyed fixed-record-length data base manager. Sort or select (using all relational operators: =, >, <, AND, OR, NOT, wild card) on any field, perform computations on numeric fields. Any operation can be performed on all, or only selected records. All fields completely user-definable. Can be used for any number of tasks, including accounting, mailing lists, inventory control, record, tape, or book cataloging, expense account maintenance, or as an electronic rolodex. Even if you use your Commodore for nothing else, this program alone might justify its expense.

**Word Processor:** A full-featured menu-driven word processor including: very fast file commands, screen editing, text locating and full control over margins, spacing, paging, indentation, and justification. "... well done and highly functional... Provides an excellent alternative to the high priced word processors... this is an excellent buy. Highly recommended." — Midnite Software Gazette. "Provides good basic features." — Compute's Gazette.

**Copycalc:** An electronic spreadsheet. Turns your Commodore into a visible balance sheet; includes screen editor. "Excellent program for budgeting, estimating, or any math-oriented use... well worth the money. Highly recommended." — Midnite Software Gazette.

Also included: **ReportGen, ReportMerge** (interface W/P with Database to create form letters, statements, invoices, mailing labels, other reports.); **Baseball Statistician** (compiles batting statistics for a baseball league); several W/P utilities, including **Index** (indexes W/P's text files); several Database utilities, including **DBmerge** (facilitates multi-file database applications.), and **DBstat** (analyzes D/B files); a programming utility, **ASCII**, which converts text files (program listings) into program files; also **Checkbook; Inventory; Paper Route; Loan Analysis; Breakeven Analysis; Depreciation; Labeler; File Copier;** more.

Versions of the package are available for every Commodore computer having a minimum of 10k RAM. All programs will support tape, disk, and printer. Price includes documentation and shipping; Calif. residents add 6%. Add \$3 for credit card, CDD, 8050 disk, or cassette orders (cassette not available for Plus4™ and 16™.) No personal checks from outside USA. This ad is the catalog; a sampling of program output is available for \$2.

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\*\*For best results an eight voice polyphonic instrument is recommended. QRS Music disks will also operate with the Passport MIDI Interfaces for the Commodore and Apple II+ and Apple IIe.

The appearance of the MIDI on home organs and synthesizers opens up a whole new future for music. QRS Player Piano Rolls from 1900 to present day were performed by late great artists from Scott Joplin, Fats Waller, and George Gershwin to contemporary artists like Liberace, Peter Nero, and others. The QRS library (which spans over 85 years and contains over 10,000 songs) is being converted to floppy disk that are available for popular microcomputers.

THE COMMODORE 64 and 128, plus the APPLE IIc packages are now available for only \$49.95. This includes a MIDI interface and a six song sample disk with CLASSICAL, CONTEMPORARY, SHOW MUSIC, and even RHAPSODY IN BLUE played by the composer GEORGE GERSHWIN in 1927. All you need is a MIDI equipped instrument\*\*, the MIDI MAGIC interface, and your computer. For information about other supported computers, the QRS Music Disk Catalog, other MIDI products, and CASIO MIDI instruments, call or write:

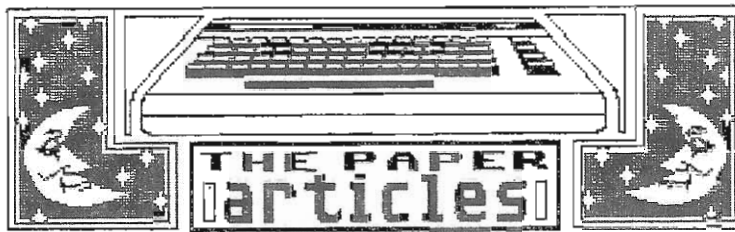
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### PROGRAM LOAD ADDRESS FIX

Robert W. Baker  
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Taking a Basic program created on an older PET or CBM system and loading it on a VIC-20, C-64, or C-128 is no sweat; each of the newer systems automatically relocates a Basic program when loading it into memory. That is, unless the load command has a comma-one (",1") at the end to tell Basic not to relocate the program. When a comma-one appears at the end of a load command, the program is loaded exactly where the default load address in the disk directory or tape file header points.

Taking Basic programs the other way isn't as easy; the older systems cannot relocate programs when being loaded and the comma-one has no meaning to the older versions of Basic. If you know where the program is going to load you can POKE a new address in the start of Basic pointer. Actually you normally only have to change the upper byte of the pointer since all the machines usually start Basic programs on an even memory page boundary. Thus, you only have to POKE a new value into location 41 to change the start of Basic.

Besides changing the starting address of Basic, you'll also have to POKE a zero value in the first byte of the starting page. Then issue a CLR command to reset all Basic pointers using the new start of Basic pointer value.

To make things easier, you might want to create one of the following one line programs. This first program will change the start of Basic for a program saved on a Commodore-64 system:

```
10 POKE41,8:POKE8*256,0:CLR
```

The second program will do the same for programs saved on a Commodore-128 system in C-128 mode:

```
10 POKE41,28:POKE28*256,0:CLR
```

Run the first program if you want to load a program that comes from a C64; run the second to load a program coming from the C128.

Your PET or CBM will be set up to allow loading, listing and running the program without any further changes. That is assuming the program uses normal Basic commands compatible with your older PET or CBM and printer.

The only fly in the ointment is the differing start of Basic addresses depending on various graphics modes on the newer systems. The C128 moves the start of Basic from \$1C00 to \$4000 when the program uses bit-mapped graphics. Thus, you may wind up with a program that uses some non-standard load address.

To cover all cases, you may want to use this simply utility program that fixes the load address of any program file on disk. It actually changes the load address stored in the program file on the disk to the default load address for the older PET and CBM systems. Once the address is changed, the Basic program can be loaded on any Commodore system. The load address will be correct for the older PET and CBM systems, while the program will be relocated correctly on the newer VIC-20, C-64 and C-128 systems. Just remember to not use the comma-one when loading 'fixed' programs on the newer systems. One other advantage to using this utility rather than changing the start of Basic pointer is the ability to load much larger

programs into the older systems. When you change the start of Basic pointer you lose a considerable amount of memory. If the program being loaded is large enough, it might not fit after the start of Basic has been changed on a PET or CBM system. By changing the actual load address in the program file, the program starts loading at the bottom of memory allowing you to load the largest possible program the system can actually handle.

To use the Load Address Fixer utility, run the program and insert the disk containing the program file to be fixed. It might be a good idea to use a backup copy on a different disk in case something goes wrong. When prompted for the filename, enter the exact name of the program file you want to be fixed. The program will then search the disk directory for the specified file and change the default load address to the proper value for the PET and CBM systems. For convenience, if you enter an asterisk (\*) for the filename then ALL FILES on the disk will be fixed at the same time.

The program will run on all Commodore systems with 4040, 1541, or 1571 compatible disks. To make the program work on an 8050 drive, simply change the value of T from 18 to 39 in line 320 of the program. As usual, if you need a copy of this or any of my published programs on disk send \$5 to cover costs and I'll send a copy of the requested program. I'll supply the disk, mailer and postage. Alternately, watch the new "Ask The Experts" section on Quantum-Link for down loadable copies of simple utilities like this.

POSTSCRIPT: Bob informed us of two errors in last month's issue, #29.

The first is in the "1571 Notes," page 35. If a 1571 is connected to a C64, the drive will default to 1541 single sided mode. The drive can be placed into double-sided 1571 mode by printing 'U0>M1' to the command channel.

The second error occurs in the "C128/1571 Hints" article, page 34. The program checks the mode of the computer by POKEing a 0 to location 65280 and then PEEKing the same location. This is a non-zero value in ROM on the C64. This location is not, however, an unused RAM location on the C128. Rather, 65820 is a byte in the Memory Management Unit that selects the bank. POKEing a 0 to this location sets the bank to 15. The program works like it is supposed to; the notes were just a little off.

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```

100 rem      load address fixer
110 rem      by: robert w. baker
120 rem      15 windsor dr, atco, nj 08004
130 :
140 rem "g"=crsr down; "Q"=crsr up; "l"=crsr right; "}"=crsr left
160 rem "s"=home; "S"=clear home; "r"=reverse on; "R"=reverse off
180 :
190 print"sgg load address fixer qgg"
200 print"this program changes the load address"
210 print"of a program file saved on disk so it"
220 print"can be loaded into a pet or cbm system.qgg"
230 dim a$(256)
240 print"filename of program to be fixed:"
250 input"(*=all)]]].}}]";x$: if x$="." then end
260 if x$="*" then fl$=x$: goto 290
280 fl$=left$(x$+"",16):rem 16 shifted spaces
290 close 15: open 15,8,15,"i0": gosub 610
300 close 2: open 2,8,2,"#0": gosub 610
310 print"qok, searching disk directory...g":t=18:s=1:goto370
330 t=asc(a$(0)): s=asc(a$(1)):ift>0then370
350 if fl$="*" then 640
360 print"file not found!": goto 640
370 print#15,"ul:2,0,";t;s: gosub 610
380 for x=0 to 255: get#2,a$(x)
390 if a$(x)=" " then a$(x)=chr$(0)
400 next x: for x=2 to 226 step 32
410 ft=asc(a$(x)) and 7: n$=""
420 l=asc(a$(x+28))+(asc(a$(x+29))*256)
430 if ft=0 or l=0 then 600
440 for y=3 to 18: n$=n$+a$(x+y): next y
450 if fl$<>"*" then 490
460 if ft<>2 then 600
470 if asc(a$(x)) > 128 then 530:goto600
490 if fl$<>n$ then 600
500 if ft<>2 then print"not a program file!": goto 640
510 if asc(a$(x)) > 128 then 530
520 print"file is not properly closed!": goto 640
530 print"updating: ";n$:t=asc(a$(x+1)):s=asc(a$(x+2))
550 print#15,"ul:2,0,";t;s: gosub 610
560 print#15,"b-p:2,2": gosub 610
570 print#2,chr$(1);chr$(4);
580 print#15,"u2:2,0,";t;s: gosub 610
590 if fl$<>"*" then 640
600 next x: goto 330
610 input#15,en,em$,et,es: if en=0 then return
620 print"qrdisk error:R";en;" rtrk/sec:R";et;"/";es
630 print em$
640 close 2: close 15

```

