DON [7/6/5/4/3/2/10 3=1=25 0=>24 (BWS 4= 6=> 6) blank S= 1=> bitmap on 06-17654372110 6= 1=>enable E.B.C.M 7 = 6+0 for raster =2= Scroll horizontally = 35 1340 07 38 collumns = 1= multicolor on 5 13 video off 2) unu sed. 6, to this punt van woord o DEOD Ida woord 01 and \$ % 11110000 STA & woord magh bit others our woord 1 and HITE Ida woord N=2 ORA % 0000 1111 STA woord. is bit 3 van woord een o of een! 1 da 9600000000 BIT woord 15 na or noordes = veld outrag = BEQ NUL data dec = EEN RTS SO ->817 NUL RTS 64-6 120-7 256-0 sorafgaande schrifte 1024-10 20407-11 4096:12.

= Scroll Wencerly

Invisible Disk Directory For VIC And 64

Kevin E. Gouah

If you have a VIC or 64 and a 1540 or 1541 disk drive, this utility program can be very helpful. Once loaded, a simple SÝS 828 will let you display your disk directory yet retain a program in memory.

The "Invisible Disk Directory Loader" is not really invisible. It only seems to be. A BASIC program POKEs the loader into the cassette buffer as machine language. Beginning at 828 (\$033C) and ending at 971 (\$03CB), the loader uses 144 bytes. A knowledge of BASIC is all you need to enter and use this program.

Using The "Invisible" Loader

If it were not for Jim Butterfield's article, "The Confusing Catalog" (COMPUTE!, March 1983), I probably would not have written the loader. I saw how easily he could load the disk directory from a program, as a file. Just OPEN 1,8,0,"\$0" input the bytes, do some manipulation, and there you have it. With the Invisible Directory Loader, you can display the directory and have any program in memory at the same time. You will no longer have to LOAD"\$",8 as a program. Just type SYS 828 and press RETURN. The directory of your disk scrolls onto the screen. Use the CTRL key to slow the scroll when listing programs, or press the space bar to stop the listing.

This program will also give you the number of blocks each file uses and the number of blocks free on your disk. The directory cannot be listed

on your printer.

You can also load and save cassette programs and not destroy the loader in the cassette buffer. This is because the loader also changes the start of the cassette buffer pointer at 178 (\$B2) for you. Where it used to be 60 (\$3C), it is now 204 (\$CC), thus the buffer now starts at 972 (\$03CC).

Loading Hints

After loading a program from cassette, you will get a load error. This can be remedied with POKE 45, PEEK (174): POKE 46, PEEK (175). This indicates to the VIC or 64 the end of your program or the

start of variables. Data files will not load properly with the Invisible Loader in place.

If you SYS 828 and your disk drive is not on, then nothing will happen. Turn the drive on and an error message appears on the screen. You must restore the VIC or 64 by pressing the STOP and RESTORE keys. Insert a disk, type SYS 828, RE-TURN, and there it is. If you do not have a disk in the drive, then the red light will flash. The screen will also scroll up with nothing on it. STOP/ RESTORE, insert a disk, and type SYS 828. Before running it, be sure to save a copy to your disk or cassette. Call it "DIR".

I use this disk utility more than any other. Rarely do I LOAD "\$", 8. I just load "DIR", 8 and run it and forget about it. It really seems invisible.

If you would rather not type in the program, I have the VIC version available. Send a blank cassette, an SASE mailer, and \$3 to:

24 Daisy Lane Wappingers Falls, NY 12590

Invisible Disk Directory

10 I=828 READ A:IF A=256 THEN 40 20 POKE I, A: I=I+1:GOTO 20 IF PEEK(65440)=135 THEN POKE 924,189:REM 40 IF PEEK(65440)=135 THEN PORE 32.
924 HOLDS 221 ON VIC, 189 ON 64
828 DATA 169,1,32,195,255,169,36
835 DATA 141,240,3,169,48,141,241 842 DATA 3,169,1,162,8,160,0 849 DATA 32,186,255,169,2,162,240 160,3,32,189,255,32,192 856 DATA 863 DATA 255,169,64,32,144,255,162 870 DATA 1,32,198,255,32,144,255 877 DATA 32,207,255,32,207,255,32 884 DATA 207,255,32,207,255,201,0 891 DATA 240,58,32,204,255,32,228 898 DATA 255,201,32,208,3,32,196 9Ø5 DATA 3,162,1,32,198,255,32 912 DATA 207,255,168,32,207,255,72 152,170,104,32,205,221,169 32,32,210,255,32,207,255 DATA 926 933 201,0,208,8,169,13,32 DATA 94Ø DATA 210,255,76,115,3,32,210 947 DATA 255,76,162,3,169,1,32 954 DATA 195,255,32,204,255,169,204 961 DATA 133,178,96,32,228,255,201 968 DATA 32,208,249,96,256