2 jr MEMORY PROGRAMS

These files will enable PCjr users to do things never before possible:

-You can configure a "high" RAMdisk (up to 512k) *AND* load Cartridge BASIC, use SCREEN 5 or 6, or do anything else you used to be able to do with CBASIC back when you only had 128k! [use RAMDRIVE.SYS file]

-You can run BASIC or BASICA *without* a cartridge (from disk) [see FIXBASIC.TXT file].

-You can configure you system in several *new* ways with a *replacement* for PCJRMEM.COM, JRCONFIG, or whatever memory driver you're now using. [use FIXMEMJR.SYS /G#]

-You can speed up graphics programs (not written in BASIC). [FIXMEMJR again!]

The use of all these files is fully explained in all the files herein. There are some "quirks" I'll point out here, tho, in case you're so anxious to get started that you read them too fast!

Organized by file:

> RAMDRIVE.SYS--This was *boon* for me because I have several statistics programs (written in BASIC) which used some 300k of data files. I had to load two sets of files separately to use them all into a 128k RD-- the maximum heretofore possible due to the way the Cartridge BASIC checks available memory.
>
> NOTES:--You do NOT use a memory-recognition driver (PCJRMEM.COM, JRCONFIG, etc.), because video memory STAYS at the high end of 128k.
>
> --You CANNOT "un-hook" the driver (to reconfigure with a command line-type memory driver)--you MUST reboot.
>
> --You CAN configure *any* size RAMdisk: 10k, 11k, 27k, etc., up to 512k!

> FIXMEMJR.SYS /G#--This driver is a replacement for PCJRMEM.COM, JRCONFIG, etc. There are three "switches": G1, G2 or G3 (explained in NOTES.DOC).
>
> NOTES:--You CAN use this driver with RAMDRIVE.SYS, but list this one first (before RAMDRIVE).
>
> --Contains a trap to prevent accessing Cartridge BASIC when memory greater than 256k (since it won't work too well anyway in graphics modes when video buffer is relocated).
>
> --Provides an option to set up a 128k video buffer, which "uses up" all SLOW low memory--thus enabling commercial (non-BASIC) graphics programs to run in high, presumably faster, memory.

These files and drivers are furnished (and written by) Jeff McKee, of Teledyne Corporation--IBM's subcontractor for construction of the PCjr. He has released these files to the public domain, and says: "ENJOY!"

Uploaded 7/30/87 by George Peters, 71330,200

Notes for FIXMEMJR.SYS and RAMDRIVE.SYS

The following is a brief description of FIXMEMJR.SYS and RAMDRIVE.SYS. This information will guide you in the installation and use of these programs.

Both of these programs are written in DEVICE DRIVER format and can only be installed through the use of a CONFIG.SYS file. The CONFIG.SYS file is a text file similar to the BATCH files used by DOS to execute several commands and/or programs by simply typing the name of the batch file. A description of the CONFIG.SYS file is covered in the DOS manual. This document assumes that you have a working knowledge of the CONFIG.SYS file.

The FIXMEMJR.SYS driver is used to re-arrange the memory map of the PCjr. The re-arranging will allow DOS and other applications to recognize and use any available memory above the 128KB boundary. The driver is installed by inserting the following line in the CONFIG.SYS:

```
DEVICE=FIXMEMJR.SYS
```

One note to remember, the FIXMEMJR.SYS driver should not be installed if any other memory recognition / relocation program is installed as this will reduce the amount of available memory and give you nothing in return.

There are also 3 command line switches that can be added to the above line that allow you to specify the amount of the video ram to set aside. These options are defined as:

```
DEVICE=FIXMEMJR.SYS /GX
```

where X is a number between 1 and 3. The number is referenced in the following table.

1 - 32KB video buffer
2 - 64KB video buffer
3 - First 128KB reserved for DOS and video.

Each of these options has advantages and disadvantages. Obviously the more video ram you set aside, the less program ram you have available. When no command line switch is specified, the video buffer size is 16KB. This is sufficient for word processors and similar applications packages. The 32KB buffer will allow the use of the extended graphics screens, ie 320x200 16 color, and 640x200 4 color. Option 3 will increase the speed of some programs as long as the memory above the 128KB is not as slow as the internal 128KB.

Also, since cartridge BASIC does not operate too well (graphics modes) when the video memory has been relocated, I installed a trap to prevent cartridge BASIC from being accessed when FIXMEMJR.SYS is installed.

The RAMDRIVE.SYS driver creates a RAMDISK that can be 10KB to 512KB in size. This driver must also be installed via the CONFIG.SYS file. The command line format is:

```
DEVICE=RAMDRIVE.SYS /size
```

One unique feature available with this program is that if no video relocation programs such as FIXMEMJR.SYS are installed, the ramdisk resides in the area above the 128KB boundary. The drawback to this feature is that if the video relocation program is installed after the ramdisk, the system will not operate properly. So be careful about this one. I say this because some video relocation programs can be installed at the DOS command level. If you currently use this type of program I strongly recommend you do not use the RAMDRIVE.SYS device driver.

--Jeff McKee