



Designed and Programmed by:

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CONFIGJR - A PCjr CONFIGURATION MANAGEMENT ASSISTANT PROGRAM

DESIGNED AND PROGRAMMED BY RICHARD G. CAMPBELL

IBM INTERNAL USE & IBM EMPLOYEE HOME USE ONLY!

I B M P C j r

DOCUMENT PREFACE

A special thank you to all of those who made suggestions and helped make this program possible. Although definition of all the various vendor software has been tested for valid syntax, it was not possible for me to actually use each and every possible configuration combination available in a live environment. Please send all questions and comments to myself at the address listed on the front page. Bugs will be fixed by the author "as time permits", requests for future enhancements are also welcomed. Although this program has been tested thoroughly and is believed to be error free, owners run it at their own risk.

PROGRAM OVERVIEW

CONFIGJR is a program written for PCjr owners with memory expansion sidecars and the corresponding VIDEO and VDISK device drivers required to make use of the additional memory. The various VIDEO drivers are used to "relocate" the video buffer down into low memory and to define its size. The various VDISK drivers are a set of optional software used to define a "virtual" disk using the PC's Random Access Memory to simulate an extra diskette drive. CONFIGJR serves as a configuration management assistant program which allows users to update their DOS configuration file, CONFIG.SYS, without the use of any line editor. Through a series of colorful menus, PCjr owners are supplied with a friendly means of updating and saving their chosen device driver definition. Additionally, CONFIGJR performs a series of checks to make sure the required files and memory are available prior to creating the new configuration file. An optional REBOOT function has also been provided, this function performs a warm ipl (CNTRL-ALT-DEL) which is required for the definition to take effect.

PROGRAM FEATURES

- * Updates CONFIG.SYS device drivers without the use of a line editor
- * Supports a variety of device drivers included with memory sidecars
- * Includes online help menu to assist all users in operating program
- * Automatically maintains a "backup" of CONFIG.SYS (uses CONFIG.BAK)
- * Optionally appends "constants" to new CONFIG.SYS (uses CONFIG.ADD)
- * Verifies required files are located on disk for configuration file
- * Verifies device driver definitions don't exceed memory limitations
- * Allows users to dynamically change the disk drive during execution
- * Allows users to choose between a pre-defined VDISK or entering one
- * Menu displays contents of the active CONFIG.SYS configuration file
- * Menu displays contents of the backup CONFIG.BAK configuration file
- * Menu optionally displays "current" size of VDISK upon user request

HARDWARE REQUIREMENTS

- * IBM PCjr with 256K of Memory and Color Display
(Can be used on any IBM PC with Color Display)

SOFTWARE REQUIREMENTS

- * Disk Operating System (DOS) Version 2.10 or Later

- * Video Device Driver (Included with Memory Sidecar)
 - PCJRMEM.COM (Copyright of IBM Corporation)
 - MEMORY.SYS (Copyright of Microsoft Corporation)
 - JRVIDEO.SYS (Copyright of Quadram Corporation)
 - JRVIDMA2.SYS (Copyright of Racore Corporation)

- * Vdisk Device Driver (Included with Memory Sidecar)
 - RAMDISK.COM (Copyright of IBM Corporation)
 - HIGHDISK.SYS (Copyright of Niels Christiansen - V0.86)
 - IMPDISK.SYS (Copyright of Impulse Corporation)
 - MEMORY.SYS (Copyright of Microsoft Corporation)
 - RAMDRIVE.SYS (Copyright of Quadram Corporation)
 - JDSKDMA2.SYS (Copyright of Racore Corporation)
 - VDISK.SYS (Copyright of IBM Corporation - DOS 3.XX)

FUTURE ENHANCEMENTS ?

- * Remove any hardcoded information from within program ...
- * Support additional vendor device drivers (as available) ...
- * Display the contents of CONFIG.ADD on a separate data menu ...

* Support separate parameters for given VDISK and VIDEO drivers ...

PROGRAM OPERATION HINTS

* Description of CONFIG.ADD file "append" feature

- Lines surrounded by (braces) are added to file before new lines
- Lines not surrounded by (braces) are added to file after new lines

Example CONFIG.ADD

(DEVICE=SAMPLE1.SYS) Must be followed by ENTER key (CRLF)
DEVICE=SAMPLE2.SYS Must be followed by ENTER key (CRLF)

Creates CONFIG.SYS

DEVICE=SAMPLE1.SYS
DEVICE=VIDEO.SYS Could be any available device driver
DEVICE=VDISK.SYS Could be any available device driver
DEVICE=SAMPLE2.SYS

- * CONFIGJR "disables" the blinking foreground attribute function of the color display during execution (it is reset upon termination). Since other IBM PC's use a different video display status port than a PCjr, CONFIGJR uses the ID code found in high memory to determine the right address. Therefore, any owners having the capability of modify the ID code (running in "PC" mode), should make sure they are in "PCjr" mode prior to executing CONFIGJR utility program (IE Racore ID Cartridge).
- * Owners using the stock PCjr keyboard may experience some difficulties in entering multiple keystrokes simultaneously. The proper method is to select a VIDEO option and hold down the appropriate "special" key, strike and release the Fn key, and strike and release a corresponding numeric function key. This holds true for all programs making use of the Fn11 - Fn40 multiple keystroke function on the IBM PCjr keyboard.
- * Owners not having room on their DOS disk to save the CONFIGJR command file can place it on a separate UTILITY disk. These users can insert their UTILITY disk to invoke CONFIGJR, then simply strike the "B" key to request CONFIGJR to change to a new disk drive and insert your DOS diskette when prompted. CONFIGJR supports either Floppy Diskettes or Fixed Disks and allows PCjr users to select any drive from "A" - "Z".
- * If you choose to update your CONFIG.SYS file without using the system reboot function, then CONFIGJR will return you to the "original" disk drive from which you invoked the program (each time CONFIGJR "leaves" a disk, it ensures the disk is returned to its "original" directory).

- * The menus make extensive use of colors throughout the program. GREEN indicates the specified component is available for use, RED indicates the specified component is un-available for use, and YELLOW indicates the specified component is un-available for use but should not impact any program function ("+" and "-" are also used as valid indicators).

- * If none of the function keys define the size you want for your VDISK, then choose the appropriate VIDEO definition along with the F10 VDISK option. This option allows users to select any size between 016K and 576K. Please note only numeric characters "0" - "9" should be input.

- * The data menus displaying the contents of file CONFIG.SYS and of file CONFIG.BAK hold a maximum of 10 lines and a maximum of 70 characters.

- * If CONFIGJR encounters a "fatal" error during processing, it's normal for the video display to be blinking while displaying error messages.

- * CONFIGJR uses a "temporary" file named CONFIG.TMP to process updates, users should avoid using that file name on disks updated by CONFIGJR.

MENU'S OVERVIEW 1 OF 3

C O N F I G J R V E R S I O N 2 . 0 0 P A R A M E T E R S

SYNTAX : CONFIGJR (D:) (/O) (ANY ORDER - THE FIRST OF EACH KIND IS USED)

D: IS CURRENT ACTIVE VDISK DRIVE LETTER (USED TO DISPLAY CURRENT SIZE)

/O IS SELECTED FROM OPTIONS SHOWN BELOW (USED TO SELECT DEVICE DRIVER)

DEFAULT : VIDEO DRIVER IS "PCJRMEM.COM" : VDISK DRIVER IS "RAMDISK.COM"

H		h	:	VIDEO DRIVER IS "PCJRMEM.COM"	:	VDISK DRIVER IS "HIGHDISK.SYS"
I		i	:	VIDEO DRIVER IS NOT A DRIVER	:	VDISK DRIVER IS "IMPDISK.SYS"
M		m	:	VIDEO DRIVER IS "MEMORY.SYS"	:	VDISK DRIVER IS "MEMORY.SYS"
Q		q	:	VIDEO DRIVER IS "JRVIDEO.SYS"	:	VDISK DRIVER IS "RAMDRIVE.SYS"
R		r	:	VIDEO DRIVER IS "JRVIDMA2.SYS"	:	VDISK DRIVER IS "JDSKDMA2.SYS"
V		v	:	VIDEO DRIVER IS "PCJRMEM.COM"	:	VDISK DRIVER IS "VDISK.SYS"
Z		z	:	SUPPORT FOR NON-PCJR SYSTEMS	:	VDISK DRIVER IS "VDISK.SYS"

OTHER : DISPLAYS THIS HELP MENU AND TERMINATES THE PROGRAM IMMEDIATELY!

MENU'S OVERVIEW 2 OF 3

IBM PCjr CONFIGURATION PROGRAM	HELP MENU	VERSION 2.00
KEYBOARD SUMMARY:		
SIMULTANEOUSLY HOLD DOWN THE SHIFT/CNTL/ALT WITH AN ASSOCIATED FUNCTION KEY TO OBTAIN THE DESIRED DOS VIDEO AND VDISK MEMORY CONFIGURATION DEFINITION		
SIMULTANEOUSLY HOLD DOWN THE SHIFT AND TAB KEYS TO RESTORE CONFIG.BAK FILE		
USE THE LEFT AND RIGHT ARROW KEYS TO PAGE THROUGH THE DATA AND HELP MENU'S		
USE THE UP AND DOWN ARROW KEYS TO ENABLE/DISABLE THE REBOOT "IPL" FUNCTION		
USE ANY ALPHABETIC KEY TO REQUEST A CHANGE TO THE CORRESPONDING DISK DRIVE		
USE THE ESCAPE KEY TO TERMINATE PROGRAM IMMEDIATELY (NO CHANGES ARE SAVED)		
ADDITIONAL DETAILS AND PROGRAMMING INFORMATION IS CONTAINED IN CONFIGJR.DOC		
"ESCAPE" TO EXIT!	<- DECREMENT PAGE	-> INCREMENT PAGE
"CONFIGJR D: /O"		

IBM PCjr CONFIGURATION PROGRAM	MAIN MENU	VERSION 2.00
SHIFT	16K VIDEO BUFFER	F1 NO VIRTUAL DISK
CTRL	32K VIDEO BUFFER	F2 064K VIRTUAL DISK
ALT	96K VIDEO BUFFER	F3 128K VIRTUAL DISK
" "	SCROLLS THROUGH DATA/HELP MENU'S	F4 192K VIRTUAL DISK
" "	ENABLES/DISABLES REBOOT FUNCTION	F5 256K VIRTUAL DISK
"SHIFT-TAB"	RESTORES CONFIG.BAK FILE	F6 320K VIRTUAL DISK
"ESC"	TERMINATES PROGRAM IMMEDIATELY	F7 384K VIRTUAL DISK
		F8 448K VIRTUAL DISK
		F9 512K VIRTUAL DISK
		F10 USER VIRTUAL DISK
DOS VERSION: 2.10	CURRENT DRIVE: A:	* PROGRAM INITIALIZED : "DEFAULTS" *
SYSTEM TYPE: PCjr	+ REBOOT ENABLED!	+ COMMAND.COM
MEMORY SIZE: 640K	+ PCJRMEM.COM	+ CONFIG.ADD
V-DISK SIZE: 128K	+ RAMDISK.COM	+ IBMBIO.COMh
	+ IBMDOS.COMh	+ CONFIG.BAK
		+ CONFIG.SYS

MENU'S OVERVIEW 3 OF 3

IBM PCjr CONFIGURATION PROGRAM	DATA MENU	VERSION 2.00
DEVICE=PCJRMEM.COM DEVICE=RAMDISK.COM /128 BUFFERS=4 FILES=16		
PCjr CONFIGURATION FILE CONFIG.SYS WAS LAST MODIFIED ON 04/23/86 AT 08:18:06		
"ESCAPE" TO EXIT! <- DECREMENT PAGE -> INCREMENT PAGE FILE: CONFIG.SYS		

IBM PCjr CONFIGURATION PROGRAM	DATA MENU	VERSION 2.00
DEVICE=JRBDRIIVE.BIN DEVICE=HIGHDISK.SYS 360 DEVICE=PCJRMEM.COM BREAK=ON		
PCjr CONFIGURATION FILE CONFIG.BAK WAS LAST MODIFIED ON 04/21/86 AT 10:28:08		
"ESCAPE" TO EXIT! <- DECREMENT PAGE -> INCREMENT PAGE FILE: CONFIG.BAK		

OPTION OVERVIEW 1 OF 4

DEFAULTS: (IBM)

VIDEO DRIVER: (LINE 1)

DEVICE=PCJRMEM.COM	-	016K VIDEO BUFFER
DEVICE=PCJRMEM.COM /E	-	032K VIDEO BUFFER
DEVICE=PCJRMEM.COM /C	-	096K VIDEO BUFFER

VDISK DRIVER: (LINE 2)

DEVICE=RAMDISK.COM /_1_	-	_1_ 016K TO 576K VIRTUAL DISK
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OPTION H: (HIGHDISK + IBM)

VDISK DRIVER: (LINE 1)

DEVICE=HIGHDISK.SYS _1_	-	_1_ 016K TO 576K VIRTUAL DISK
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VIDEO DRIVER: (LINE 2)

DEVICE=PCJRMEM.COM	-	016K VIDEO BUFFER
DEVICE=PCJRMEM.COM /E	-	032K VIDEO BUFFER
DEVICE=PCJRMEM.COM /C	-	096K VIDEO BUFFER

OPTION OVERVIEW 2 OF 4

OPTION I: (IMPULSE)

VIDEO DRIVER: (LINE 0)

NOT DEVICE DRIVER (EXTRARAM.EXE)

VDISK DRIVER: (LINE 1)

DEVICE=IMPDISK.SYS #_1_ - _1_ 016K TO 576K VIRTUAL DISK

OPTION M: (MICROSOFT)

VIDEO DRIVER: (LINE 0)

SEE THE VDISK ENTRY (MEMORY.SYS)

VDISK DRIVER: (LINE 1)

DEVICE=MEMORY.SYS /S:_1_ /V:_2_ /D_3_ - S:_1_ 016K TO 576K VIRTUAL DISK
- V:_2_ 002K TO 096K VIDEO BUFFER
(HARDCODED DIRECTORIES IS 64) - D:_3_ 004K TO 064K DIRECTORIES

OPTION Q: (QUADRAM)

VIDEO DRIVER: (LINE 1)

DEVICE=JRVIDEO.SYS	-	016K VIDEO BUFFER
DEVICE=JRVIDEO.SYS /E	-	032K VIDEO BUFFER
DEVICE=JRVIDEO.SYS /C	-	096K VIDEO BUFFER

VDISK DRIVER: (LINE 2)

DEVICE=RAMDRIVE.SYS _1_	-	_1_ 016K TO 576K VIRTUAL DISK
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OPTION R: (RACORE)

VIDEO DRIVER: (LINE 1)

DEVICE=JRVIDMA2.SYS	-	016K VIDEO BUFFER
DEVICE=JRVIDMA2.SYS /E	-	032K VIDEO BUFFER
DEVICE=JRVIDMA2.SYS /C	-	096K VIDEO BUFFER

VDISK DRIVER: (LINE 2)

DEVICE=MDSKDMA2.SYS /_1_	-	_1_ 016K TO 576K VIRTUAL DISK
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OPTION OVERVIEW 4 OF 4

OPTION V: (DOS + IBM)

VIDEO DRIVER: (LINE 1)

DEVICE=PCJRMEM.COM	-	016K VIDEO BUFFER
DEVICE=PCJRMEM.COM /E	-	032K VIDEO BUFFER
DEVICE=PCJRMEM.COM /C	-	096K VIDEO BUFFER

VDISK DRIVER: (LINE 2)

DEVICE=VDISK.SYS <u>1</u> <u>2</u> <u>3</u>	-	<u>1</u> 016K TO 576K VIRTUAL DISK
(HARDCODED SECTOR SIZE IS 512)	-	<u>2</u> 128K TO 512K SECTOR SIZES
(HARDCODED DIRECTORIES IS 064)	-	<u>3</u> 002K TO 064K DIRECTORIES

OPTION Z: (DOS)

VIDEO DRIVER: (LINE 0)

SUPPORT FOR NON-PCJR SYSTEMS

VDISK DRIVER: (LINE 1)

DEVICE=VDISK.SYS <u>1</u> <u>2</u> <u>3</u>	-	<u>1</u> 016K TO 576K VIRTUAL DISK
(HARDCODED SECTOR SIZE IS 512)	-	<u>2</u> 128K TO 512K SECTOR SIZES
(HARDCODED DIRECTORIES IS 064)	-	<u>3</u> 002K TO 064K DIRECTORIES
