## Autoexec.bat and Config.sys information

The autoexec.bat and the config.sys were files created for MS-DOS and Windows 3.x as an easy solution of loading the files required for various devices as well as the operating system to properly run. These files are required for later revisions of MS-DOS and Windows 3.x to load. However, with newer versions of Windows are no longer needed.

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How to edit the files

## The auotexec.bat and the config.sys are edited by

How to edit the files

the MS-DOS command file Edit. To edit these files, type edit c:\autoexec.bat to edit the autoexec.bat file, or edit c:\config.sys to edit the config.sys file. If the mouse drivers are not loaded properly, the mouse will not work.

the sysedit command; to run this program, click Start, Run, and type sysedit. Remarking information

versions of Windows it is recommended that you use

If you have Windows 95, Windows 98, or later

### Remarking lines within the autoexec.bat or the

config.sys allows you to temporarily or permanently prevent a line from loading each time you boot the computer. To remark a line place "REM" in front of each line you want to skip. If you are encountering issues with a line in the

autoexec.bat it is highly recommended that you

remark the line instead of removing the line in case it needs to be placed back into the autoexec.bat. Getting additional memory

The below commands help your computer load programs

#### into memory more efficiently allowing you to have more memory for MS-DOS programs and games.

DOS=HIGH, UMB

Make sure you have the below three lines at the beginning of your config.sys file.

By placing the DOS=HIGH, UMB on the second line, this

DEVICE=C:\Windows\HIMEM.SYS

DEVICE=C:\Windows\EMM386.EXE NOEMS

can, in some cases, save memory because it is

loading DOS into upper memory before loading the

memory manager. Additionally, the first and third

lines cannot be loaded into high memory because these lines are the memory managers. Load all your devices in your config.sys and autoexec.bat into high memory. Autoexec.bat layout

#### @echo off SET SOUND=C:\PROGRA~1\CREATIVE\CTSND

look.

SET

SET BLASTER=A220 I5 D1 H5 P330 E620 T6 SET PATH=C:\Windows;C:\ LH C:\Windows\COMMAND\MSCDEX.EXE /D:123

Below is an example of how the autoexec.bat may

Command Explanation @echo off Tells DOS to read the lines but not echo them back to the screen. The set sound is telling the SOUND=C:\PROGRA~1\CREATIVE\CTSND

	directory.
SET BLASTER=A220 I5 D1 H5 P330 E620 T6	Tells the computer to set the sound blaster settings, which is a good line for game players. If you have this line in your autoexec.bat,

computer to send all sound events that the computer

you have all settings for your sound card. A220 =

port address "220",

I5 = IRQ 5, D1 =
DMA 1 usually being
the settings for

most sound cards.

SET PATH=C:\Windows;C:\	Sets the computer to look in the C:\Windows directory or the root if a command used at the prompt is not found.
LH C:\Windows\COMMAND\MSCDEX.EXE /D:123	Line used for the CD-ROM. If you have Windows 95+, the MSCDEX will always be in the C:\Windows\COMMAND. In Windows 3.x or DOS, this file is in either in C:\DOS or C:\Windows directory. The /D:123 is the name of the driver name that loads in upper memory; this can be anything, usually /D:MSCD0001. Keep in mind that this is not the driver, it is the name for the driver. If you change this line it needs to also be changed in the config.sys on your CD-ROM line. If the two are not the same, your CD-ROM drive will not load.
LH C:\MOUSE\MOUSE.EXE	Loads the mouse driver into memory. However, not all mice use the same drivers. Although the mouse may use mouse.exe it could also be "mouse.com" or "mouse.sys", which is loaded in the config.sys.
C:\DOS\SMARTDRV.EXE /X	Loads the smartdrive disk cache utility into memory. See the smartdrv command page for additional information about this utility.

DOS command to load DOSKEY into memory so when in DOS you can use it without having to load it.

MS-DOS command to

using Windows 3.x, this line will load

automatically when

**Explanation** 

between and after the =.

clear screen.

Used for users

Windows

booting the computer.

# DEVICE=C:\Windows\HIMEM.SYS

DOS=HIGH, UMB

FILES=30

Config.sys layout

**DOSKEY** 

**CLS** 

WIN

STACKS=0,0 **BUFFERS=20** 

DEVICE=C:\Windows\EMM386.EXE NOEMS

Below is an example of how the config.sys may look.

DEVICEHIGH=C:\Windows\COMMAND\ANSI.SYS DEVICEHIGH=C:\MTMCDAI.SYS /D:123 **Command** The Himem.sys line is an **DEVICE=C:\Windows\HIMEM.SYS** important
line; this
line allows

	line allows you to load drivers into high memory. If this line is not present, Windows 3.x will not load.
DOS=HIGH,UMB	Load DOS into high memory in an upper memory block. Note the location usually best placed after the HIMEM.SYS.
DEVICE=C:\Windows\EMM386.EXE NOEMS	The EMM386 line loads the extended memory manager. However, some older MS-DOS games have problems with extended memory and will not run without the NOEMS statement.
FILES=30	The files line allow Windows to load 30 files at the same time. However, going higher may decrease the computer's performance; 30 is found to work the best. Also, make sure that this line is all as one line and that there is not a space

		halted error message.
BUFFERS=20		Buffers line is to load buffers into memory allowing Windows to load memory.
DEVICEHIGH=	C:\Windows\COMMAND\ANSI.SYS	The ansi.sys line is a driver for DOS to allow you to have different colors and sizes and special characters at the DOS prompt.
DEVICEHIGH=	C:\MTMCDAI.SYS /D:123	The CD-ROM driver for the CD-ROM driver. The /D:123 represents the name of the driver, which in this case is named 123, however, can be named anything, usually MSCD0001. However, keep in mind that the /D:123 must be exactly the same in config.sys and autoexec.bat. If they are different, the CD-ROM will not work in MS-DOS.
LASTDRIVE=		Allows you to specify the last drive installed on the computer. It is not recommended this line be used unless you are using Windows 3.11 or earlier since later version of Windows will ignore this line.
FCBS=		Line used to specify the number of file control blocks for file sharing. Should only be used when programs require it, and today, is not used or required. FCBS can utilize between 1 and 255.
echnical sup	port	
Reference	Question	
Batch	Batch file information and related questions.	
<b>⊕</b> CH000007	Getting the mouse to work in MS-DOS	
<b>⊚</b> CH000210	As the computer boots I receive bad	
	How to get sound in MS-DOS.	
<b>⊚</b> CH000361	MS-DOS issues with Windows	
	MS-DOS issues with Windows ME.  Stack overflow system halted.	
<ul><li>CH000382</li><li>CH000425</li></ul>	Himem.sys missing or corrup	ot.
_	Himem.sys missing or corrug If your question is not list page, try our online forum.	sted on this

STACKS=0,0

The stacks

3.2 and was used to swap the stack whenever an asynchronous

hardware interrupt

line

occurred. Later in MS-DOS 3.3 the

STACKS=0,0 was added into the config.sys. In special

circumstances, this line was changed to STACKS=9,128.

The STACKS

statement

512. If a

has a range

of 8-64, 32-

higher value

is entered,

you will

FATAL:

stack

Internal

failure,

system

receive a

line was first used in MS-DOS