C *The Windows 3.1 Disks and Files*

This appendix contains information about the Windows 3.1 installation disks and tips for minimizing the amount of disk space that Windows takes on your system, beginning with removal of components through Windows Setup.

Contents of this appendix

1. Run Window Base Setup from Program Manager.

2. Double-click Remove Drive Window in Control Panel, select any drivers that you do not use, then choose Remove.

3. Use this utility to remove components of Windows you don't use.

The Windows 3.1 Installation Disk Set

The Windows 3.1 installation disks are available in 360K, 720K, 1.2 MB, and 1.44 MB sizes. See README.WRI on the Windows Resource Kit disk for a complete list of files that includes:

· The disk location for each Windows file, based on the disk format size.

· The expanded file size for each file.

· A description of the purpose of each file.

Minimizing the Windows "Footprint"

This section describes how to minimize the Windows "footprint," descreasing the amount of space that Windows takes on your hard disk. If you follow these steps, you can minimize the space that Windows takes on your hard disk to as low as 2.6 MB. For details about the files described here, see Chapter 3, "The Windows 3.1 Files."

Removing Windows Accessories, Drivers, and Fonts

If you want to remove files from Windows, begin with the Windows utilities, then remove unused drivers and fonts. The following steps will reduce the Windows footprint to about 5.6 MB.

To remove Windows components:

To remove unnecessary drivers:

3. Double-click the Printers icon in Control Panel, select any printers you don't use, then choose Remove.

These steps remove the references to the device driver or the printer driver, but the driver file may still exist on your disk. To

1. Run Control Panel from Program Manager and double-click
    the Fonts icon.

2. Select the fonts you don't use.

delete the files, run File Manager and delete the associated .DRV
file.

Also, some printers have related supporting files and help files.
For example, the HP Laserjet IIISi driver uses the font installer files
FINSTALL.DLL and FINSTALL.HLP. You can delete these files if you
remove that printer. For details about which .DRV files and support
files are associated with drivers and printers, see Chapter 3, "The
Windows 3.1 Files."

To remove unused fonts:

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3. Make sure the Delete Font File from Disk option is checked,
    and choose Remove.

4. When the dialog box prompt appears, choose Yes to remove
    the file.

Removing Other Files

After you complete the steps in the previous section, there are still
some files you can manually delete from Windows. These files are
grouped below by function. Be careful when deleting these files.
Pay attention to the side effects described in the notes.

Removing Other Accessories

After you use the Windows Setup program to remove the
accessories, other accessory files remain that can be deleted.
Deleting the following files will decrease the Windows footprint
by 565K.

Files for other accessories that can be removed

CLIPBRD.EXE   The Clipboard Viewer. Without this
                file, you cannot view the information stored on the
                Clipboard.
MSD.EXE   The files for the Microsoft Diagnostics tool.
MSD.INI
PIFEDIT.EXE The PIF Editor. If you delete this file, you cannot

edit or create program information files to support non-Windows applications.

PRINTMAN.EXE   The Windows Print Spooler. If you delete this file, Windows cannot spool your print jobs.

SYSEDIT.EXE   The System Files Editor.

TASKMAN.EXE   The utility that presents a list of running tasks when you press CTRL+ESC.

WRITE.EXE   The files for Windows Write.

WRITE.HLP

Removing Support for Standard Mode

If you run Windows in 386 enhanced mode, and never run Windows in standard mode, there are additional files you can delete. Deleting the following files will decrease the Windows footprint by 183K.

Files for standard mode support that can be removed

DOSX.EXE   The MS-DOS Extender.

DSWAP.EXE Standard mode support for swapping non-Windows applications.

KRNL286.EXE   The standard mode kernel for 80286 PCs and for 80386 and higher PCs with less than 2 MB of RAM.

WINOLDAP.MOD   The standard mode support for executing non-Windows applications.

WSWAP.EXE Standard mode support for swapping Windows applications.

*.2GR   The standard mode grabber file. The actual filename depends on the display driver installed. For example, for VGA.DRV, this file is VGACOLOR.2GR.

Note   Deleting any of the above files disables standard mode Windows.

Removing Support for 386 Enhanced Mode

If you run Windows only in standard mode, and never in 386 enhanced mode, you can delete additional files. Deleting the following files will decrease the Windows footprint by 781K.

Files for 386 enhanced mode support that can be removed

CGA40WOA.FON   The fonts for non-Windows applications.

CGA80WOA.FON

EGA40WOA.FON

EGA80WOA.FON

CPWIN386.CPL   The support file for the 386 Enhanced Mode icon in Control Panel.

DOSAPP.FON   The fonts that support sizable text in

	a window in 386 enhanced mode.
*.3GR	The 386 enhanced mode grabber file. The actual filename depends on the display driver installed. For example, for VGA.DRV, the grabber file is VGA.3GR.
*.386	Various 386 enhanced mode support drivers.
WIN386.EXE	The Windows Virtual Machine Manager.
WIN386.PS2	Support for PS2 architecture.
WINOA386.MOD	The 386 enhanced mode support for executing non-Windows applications.

Note   The above files will only be present on 80386 and higher PCs. Deleting any of the above files disables 386 enhanced mode Windows.

Removing Support for Non-Windows Applications

If you are running only Windows-based applications, and will never run non-Windows applications, you can delete the files that support these applications. Deleting the following files will decrease the Windows footprint by 250K.

Files for non-Windows application support that can be removed

*.PIF	Any PIFs can be deleted.
APPS.INF	The information file for building PIFs.
CGA40WOA.FON	Fonts for non-Windows applications.
CGA80WOA.FON	
EGA40WOA.FON	
EGA80WOA.FON	
*.2GR, *.3GR	The standard mode and 386 enhanced mode grabber files.The actual filenames depend on the display driver installed. For example, for VGA.DRV, the grabber files are VGACOLOR.2GR and VGA.3GR.
DOSAPP.FON	The fonts that support sizable text in a window in 386 enhanced mode.
DSWAP.EXE	Standard mode support for swapping non-Windows applications.
WINOLDAP.MOD	The standard mode support for executing non-Windows applications.
WINOA386.MOD	The 386 enhanced mode support for executing non-Windows applications.

Note   Deleting the above files will remove all support for non-
Windows– based applications, including the MS-DOS Prompt.

Removing Support for Help Files

You can delete the online help files. Deleting the following files
decreases the Windows footprint by 421K.

Files for the Windows Help system that can be removed

CONTROL.HLP   The help file for Control Panel.
SETUP.HLP   The help file for Windows Setup.
WINHELP.EXE   The Windows Help engine.

Note   If you delete WINHELP.EXE, you cannot access help from any
Windows applications.

Removing Miscellaneous Files

Several other files that you can remove are shown in the following table. Deleting these files will decrease the Windows footprint by 340K.

Miscellaneous files that can be removed

AUTOEXEC.WIN	Files created by Setup that contain suggested changes for CONFIG.WINCONFIG.SYS and AUTOEXEC.BAT.
BOOTLOG.TXT	The file that holds a log of files loaded during the Windows boot procedure.
EMM386.EXE	If you are not loading EMM386.EXE in CONFIG.SYS, and if you do not need EMS memory for non-Windows applications, you can delete this file.
MORICONS.DLL	A dynamic-link library that contains icons for many non-Windows applications.
MOUSE.INI	Mouse drivers.
MOUSE.SYS	You can delete any of these files that you are not loading in
MOUSE.COM	CONFIG.SYS or AUTOEXEC.BAT.
LMOUSE.COM	
RAMDRIVE.SYS	Support for a RAM drive in extended memory. You can delete this file if it is not loaded in your CONFIG.SYS file.
SETUP.TXT	The README file for Windows Setup.

Creating the Minimum Windows Footprint

By removing all of the following kinds of files, you can create the minimum Windows footprint. With this minimum footprint, Microsoft Windows will run only in standard mode, requiring 2.6 MB of disk space:

· Remove Windows components.
· Remove unnecessary drivers.
· Remove unused fonts.
· Remove other accessories.
· Remove 386 enhanced mode support.

- Remove non-Windows application support.
- Remove the Windows Help system.
- Remove miscellaneous files.