



# Tech Info Library

## Mac OS 7.6.1 Update Read Me (5/97)

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TOPIC -----

This article is the About Mac OS 7.6.1 Update Read Me file.

DISCUSSION -----

Mac OS 7.6.1 Update Overview and Installation.

Who can use Mac OS 7.6.1 Update?  
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Mac OS 7.6.1 Update improves the reliability of Mac OS computers. If you are using a system software version prior to Mac OS 7.6, you must upgrade to Mac OS 7.6 before you install this update. Additionally, some newer PowerBooks, introduced after Mac OS 7.6, cannot use this update. To see if your computer can use this update, see "How Do I Know What Version of System Software I Have?" below.

**IMPORTANT:** Do not install this update if you have a Macintosh Performa 4400 or a Power Macintosh 4400, 5500, 6500, 7300, 8600, or 9600 series computer. You can obtain Mac OS 7.6 and Mac OS Update 7.6.1 through the Mac OS Up-To-Date program. If you have a PowerBook 3400, you need to download the Mac OS 7.6.1 Update for the PowerBook 3400. For more information, see the Mac OS Up-To-Date Web site at <<http://www.macos.apple.com/macos/releases/fulfillment.html>> or call 800-335-9258.

How do I know what version of system software I have?  
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To find out what system software version your computer is using, follow these steps:

- 1) Make sure you are in the Finder. (To switch to the Finder, open the Application menu, marked with an icon in the upper-right corner of your screen, and choose Finder.)

2) Open the Apple menu, located at the upper-left corner of your screen.

- If the first item in the Apple menu is called About This Computer, choose this item from the menu. In the box that appears, check the words in the upper-right corner. If you see the word "Enabler" under the line that reads "System Software 7.6," you cannot install this update. If you see "PowerBook 3400 1.0," then you need to download the Mac OS 7.6.1 Update for the PowerBook 3400. If the update is not currently available, it should be available soon. If there is no text between the line that reads "System Software 7.6" and the copyright notification, you can proceed with the installation.
- If the first item in the Apple menu is called About This Macintosh, you have an earlier version of system software. You must upgrade to Mac OS 7.6 before you can install this update.

What's included in the Mac OS 7.6.1 Update?

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After you install the Mac OS 7.6.1 Update, you should notice improved stability, as well as the following fixes and enhancements:

- Nearly all Type 11 errors eliminated  
Type 11 errors force you to restart the computer without saving your work. Most of these errors are now properly classified as Type 1 or Type 2 errors, which cause the active application to quit, but do not force you to restart the computer. Type 11 errors occur while using "native" applications used by computers with PowerPC processors.

IMPORTANT : When you get an error that forces a program to quit, you should still save your work in other open programs and restart the computer.

- Type 112 errors eliminated  
Type 112 errors, which occurred when using some multimedia applications, have been eliminated.
- CFM-68K Runtime Enabler included for computers with 68030 and 68040 processors  
Computers with 68030 and 68040 processors can now use programs that require the CFM-68K Runtime Enabler. The CFM-68K Runtime Enabler is a system extension which allows application programs to share code resources. Because of a problem with this extension, it was not included with Mac OS 7.6. This problem has been fixed.

Apple products that use the CFM-68K Runtime Enabler include OpenDoc, the LaserWriter 8.4 driver, Apple Telecom software 3.0 and later, and the Apple Media Tool. Applications from other companies that require the CFM-68K Runtime Enabler include America Online 3.0 and Internet Explorer 3.0. (If you continue to experience problems with non-Apple programs that use the CFM-68K Runtime Enabler, contact the manufacturer.)

- Improved compatibility with serial devices when using Performa 5400 and 6400 and PowerBook 3400 computers

Equipment connected to the serial port now communicates correctly with these computers. (Previously, some devices using the serial port were not recognized by these computers if the devices were connected when the computer started up.)

- Infrared problems fixed on PowerBook 1400 and 3400 computers  
The computer no longer freezes if the infrared window is blocked when the computer is starting up or transferring files.
- Improved reliability when using large QuickTime files, or using QuickTime in low-memory situations  
Application programs that use QuickTime files work more reliably when working with large files and when using QuickTime files in low-memory situations.
- Printing improved for Performa and Power Macintosh 5400 and 6400 series computers using non-Apple printers over LocalTalk networks  
Performa and Power Macintosh 5400 and 6400 computers now print at an acceptable speed on non-Apple printers over a LocalTalk network. (Previously, printing was very slow.)
- Video applications recognize that MPEG is installed  
Video applications, including the Apple Video Player, now correctly recognize when MPEG software or hardware is installed.
- Storage PC Cards no longer require a utility program to appear on the desktop  
PC Cards used for storage now appear on the desktop when inserted. A mounting utility program is no longer required.
- Only two low-battery messages displayed on PowerBooks before computer shuts itself down  
Only two low-battery messages are displayed, instead of three, before the computer shuts itself down. The first message appears approximately two to four minutes before shutdown. The second occurs approximately ten seconds before shutdown.
- PowerBook 1400 computers now wake from sleep faster  
When you wake the computer, there is less of a delay before the screen appears.
- Contrast and brightness controls work as expected on PowerBook 1400 computers  
The screen will get brighter or show more contrast when the plus (+) controls are pressed. Previously, the functionality of the plus (+) and minus (-) controls were reversed on PowerBook 1400 computers.
- On the PowerBook 3400, the CD-ROM drive works correctly if inserted when the computer is on  
The removable CD-ROM drive now appears correctly on the desktop if it is inserted in the expansion bay while the computer is on.
- New version of Apple System Profiler

IDE-based CD-ROM drives, such as the built-in CD-ROM drive for the PowerBook 1400, are now listed in the Apple System Profiler window.

- New version of AppleVision software  
A new version of AppleVision software improves reliability on computers that currently use AppleVision monitors.
- Graphics acceleration software works correctly with a universal System Folder  
Graphics acceleration software now works correctly when used with a universal System Folder. Additionally, the Graphics Accelerator extension and the Graphics Accelerator 2 extension have been merged into the ATI Graphics extension.
- New version of Apple Video Player  
Video-capture and TV tuner PC Cards now work correctly on PowerBook 3400 computers. Additionally, all computers can use the AppleScript scripting language to automate tasks in Apple Video Player.
- Settings in Energy Saver control panel are saved properly  
Changes made to automatic startup and shutdown settings are now saved.
- Large files copied between IDE hard disks sometimes crashed the system  
Files over 1 MB can now be copied between two IDE hard disks without causing a system crash.
- Better performance when using video-capture expansion cards and ATI accelerators  
Video capture is faster on computers when using video-capture PCI expansion cards with ATI graphics accelerators.

Besides the bug fixes provided by Mac OS 7.6.1 Update, several of the bug fixes and features that have been previously released as extensions are now part of the OS. You may notice that these extensions have been removed from the Extensions folder. After installing the Mac OS 7.6.1 Update, you will no longer need these extensions in your Extensions folder.

- 54xx/64xx Update version 1.0
- 54xx/64xx Update version 1.1
- 7.5.5 SCSI Server Update
- Assistant Toolbox
- PCI Network Legacy Layer version 1.0
- PCI Network Legacy Loader version 1.0
- PowerBook 1400 ATA Flash
- PowerBook 1400 PMU Updater

- PowerBook VM Tuner for OS 7.6
- PowerMac Format Patch
- PowerPC Interrupt Extension

For additional technical information, see the Mac OS 7.6.1 Update Technote. You can find it at the Apple Developer World site at <http://devworld.apple.com/dev/technotes.shtml>.

#### Known problems with Mac OS 7.6.1

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- Monitors Control Panel is not included in "Mac OS 7.6.1 base" and "Mac OS 7.6.1 all" extension manager sets  
If you have a computer that does not have the Monitors & Sound control panel and you select the "Mac OS 7.6.1 base" or "Mac OS 7.6.1 all" extension manager sets, you will also need to select the Monitors Control Panel.

#### Known problems with Mac OS 7.6 not fixed with this update

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- Connectix Speed Doubler disabled when Mac OS 7.6.1 is installed  
There is a problem using Speed Doubler versions 1.3.1 and earlier and version 2.0 with Mac OS 7.6. If you use one of these Speed Doubler versions, it will be disabled after you install Mac OS 7.6.1 Update. Connectix is aware of this problem and is providing a free update. For more information, see the Connectix Web site at <http://www.connectix.com>, or call 800-839-3632.
- Versions of several Apple software products compatible with computers with 68030 and 68040 processors that require the CFM-68K Runtime Enabler not included with Mac OS 7.6  
Because of a problem with the CFM-68K Runtime Enabler, the extension and compatible versions of several Apple software products (such as OpenDoc, the LaserWriter 8.4 driver, Apple Telecom software 3.0 and later, and the Apple Media Tool) were not included with Mac OS 7.6. The CFM-68K Runtime Enabler problem has been fixed and computers with 68030 and 68040 processors can now use programs that require this extension. The latest version of this software is available on "Apple SW Updates" on the Internet <http://www.info.apple.com>, America Online (keyword: AppleComputer), and CompuServe (GO APLSUP). To get a list of authorized mirror sites on the Internet, access the following URL: <http://support.info.apple.com/ftp/mirrors.html>
- LaserWriter 8.3.4 results in an error message when you print to a file and then drag the resulting file to a desktop printer  
If you use the LaserWriter 8.3.4 driver to print to a file and then drag the resulting file to a desktop printer, you get a message stating that the print library is missing. To work around this problem, update your LaserWriter software to LaserWriter 8.4.1. This software is available on "Apple SW Updates" on the Internet <http://www.info.apple.com>, America Online (keyword: AppleComputer), and CompuServe (GO APLSUP). To get a list of authorized mirror sites on the Internet, access the following

URL: <<http://support.info.apple.com/ftp/mirrors.html>>

- After you install Mac OS 7.6.1 Update, the easy install option no longer works for reinstalling Mac OS 7.6

Once you have installed Mac OS 7.6.1 Update, you can no longer use the easy install option for reinstalling Mac OS 7.6 (installers cannot update over newer versions of software). You must use the clean install option to reinstall Mac OS 7.6. Specific components can be installed using the custom install option.

- Notes on Custom Installs

If you perform a custom install of a component from your Mac OS 7.6 CD (or floppy) and already have system 7.6.1 running on your system, you may notice the following warning dialog: "The file <name of the component> already on <name of your hard drive> is newer than what you are about to install. Click Newer to keep the Newer file, Older to replace that file, or Cancel to stop installation." You should pick Newer.

IMPORTANT: After the Mac OS 7.6 install finishes installing the selected components, you should then reinstall the Mac OS 7.6.1 Update to ensure that the components you just installed are up-to-date.

- Installing QuickDraw GX for use with a non-Apple printer

If you want to use QuickDraw GX with a non-Apple printer, you need to obtain a QuickDraw GX printer driver or remove QuickDraw GX. If QuickDraw GX is installed, you will not be able to use your non-Apple printer without a GX driver. Contact your printer vendor for details. (Turning off QuickDraw GX in the Extensions Manager will solve this problem.)

- Using the QuickDraw GX Installer when Adobe Acrobat is installed

If you use the QuickDraw GX Installer to either install or remove QuickDraw GX and your computer has Adobe Acrobat installed, Acrobat will display a message about missing fonts each time the computer is restarted. Reinstall or turn off Acrobat to stop the warning message. (Turning off QuickDraw GX in the Extensions Manager will not solve the problem.)

- Video Startup extension and Apple Video Player improperly installed by Mac OS 7.6

Mac OS 7.6 improperly installs the Video Startup extension and the Apple Video Player application on Macintosh TV. You should throw the Apple Video Player application and the Video Startup extension in the trash. If these components are present, the Mac OS 7.6.1 Update will update them to newer versions which still do not work on Macintosh TV.

- 3D images cannot be viewed with OpenDoc 3DMF Viewer 1.0.1 with QuickDraw 3D 1.5 or 1.5.1 installed

If QuickDraw 3D 1.5 or 1.5.1 is installed, a message about insufficient memory appears when attempting to place a 3D image in an OpenDoc document. Increasing the viewer's memory size with the Get Info command in the File menu does not solve the problem. To use the 3DMF Viewer,

install an earlier version of QuickDraw 3D.

- Internal speaker on Power Macintosh 5500 and 6500 computers remains muted after disconnecting external speakers  
If the external speakers are connected when the computer starts up and then disconnected, the internal speakers remain muted. To work around this problem, restart the computer after disconnecting the external speakers. The internal speaker should work normally.
- Adjusting the volume by pushing the Buttons on the front of the Macintosh LC575 will not register on the Monitors and Sound Control Panel  
If you use the front bezel button to change volume on a Macintosh LC575 the change in volume will not register on the "Computer System Volume" slider in the Monitors and Sound control panel. You will only have the Monitors and Sound Control Panel on a LC575 if you have and AppleVision Monitor or are running a universal system.
- Macintosh customers with the DayStar Digital 040 cards will need to do the following:  
If you use the DayStar Digital 040 card, you will have to first remove the card, then install Mac OS 7.6.1 Update, and then reinstall the DayStar Digital 040 card
- Two system folders when no desktop printer is selected  
If you notice two active system folders on your hard drive, create a desktop printer to work around this problem. To create a desktop printer select the Chooser in the Apple Menu, select any printer, and then press the Create button.

Before you install

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Use the Disk First Aid application program before you install the Mac OS 7.6.1 Update to check your hard disk for problems. Disk First Aid comes on the Mac OS 7.6.1 Update, Disk 1 disk and on the Disk Tools disk that came with your computer. Follow these steps:

- 1) Insert the Mac OS 7.6.1 Update, Disk 1 disk into the floppy disk drive.
- 2) Double-click the Disk First Aid icon to open it.
- 3) Click the icon for the disk you are installing software on.
- 4) Click Verify.
- 5) If Disk First Aid tells you your disk appears to be OK, choose Quit from the File menu. If Disk First Aid reports problems with your hard disk, see the manual that came with your computer.

NOTE: If you have a problem using Disk First Aid, see the manual that came with your computer.

Installing Mac OS 7.6.1 Update

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Before you install Mac OS 7.6.1 Update, you should have at least 10 MB of disk space temporarily available on your hard disk. It is very important that you follow these steps in order to install Mac OS 7.6.1 Update:

- 1) Open the Extensions Manager control panel.
- 2) Choose "Mac OS 7.6 Base" from the Sets pop-up menu. (This choice will only appear if you are using Mac OS 7.6. If it does not appear, you need to upgrade to Mac OS 7.6 before installing this update.)
- 3) If you have third-party peripheral devices that are required for installation and that require an extension, turn those extensions back on. (Examples include video drivers, drivers for alternative input devices, network card drivers, and drivers for removable media drives, such as CD-ROM drives.)
- 4) Restart your computer.
- 5) Insert the Mac OS 7.6 Update, Disk 1 disk into the floppy disk drive.
- 6) Double-click the Installer icon to open it.
- 7) After you read the licensing agreement, click Agree to continue with the installation.
- 8) Make sure that the destination disk indicated on the screen is the disk that contains Mac OS 7.6. If the wrong disk name appears, click the Switch Disk button until the correct disk name appears.
- 9) Click Install.
- 10) Follow the instructions on the screen. On-screen messages tell you when you need to insert the other disks.
- 11) When the installation is complete, click Restart to restart your computer.
- 12) Use the Extensions Manager to turn on additional extensions.
- 13) To use the extensions you turned on, restart the computer. (If you encounter problems, choose "Mac OS 7.6.1 Base" from the Sets pop-up menu, restart your computer, then turn on other extensions one at a time to determine if one of them is causing the problem.)
- 14) After you install Mac OS 7.6.1 Update, you may want to restart your Macintosh while holding the command ( ) and option key. This will rebuild the desktop on your Macintosh and ensure that no Icons are generic.

IF YOU CANNOT INSTALL THIS UPDATE SUCCESSFULLY: If you have trouble installing this update, try choosing "All Off" from the pop-up menu in Step 2. If you failed to run the Disk First Aid application program, follow the steps in



"Before you install," then follow the steps for installing Mac OS 7.6.1 Update.

#### Updating a universal System Folder

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A universal System Folder can be used to start up any computer that can use Mac OS 7.6.

Only some users need a universal System Folder. You might want to create a universal System Folder if you

- start up different computer models using removable media or an external startup disk
- want to simplify support of multiple users by giving all users the same System Folder

The universal System Folder will not contain

- the Password Security control panel
- ATI 3D Accelerator, ATI MPEG Accelerator, ATI YUV Accelerator, and ATI 6500 Graphics Extension
- ATI Graphics Accelerator 1.2.2 (ATI Graphics Accelerator 1.1.4 is installed in the universal System Folder)
- the Infrared control panel, IrDALib, and IRLanScannerPPC
- the CDStrip control strip module
- the TV/FM 1.5.3

If you are responsible for only one computer, you shouldn't need to create a universal System Folder.

- 1) Start with a universal System Folder created by the Install Mac OS program (available on the CD or floppy disks that came with Mac OS 7.6).
- 2) Update your universal System Folder by installing Mac OS 7.6.1 Update.

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