



# Tech Info Library

## System 7.5 Update 2.0: What's New in This Update (3 of 3)(10/96)

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### TOPIC -----

This article contains one of several ReadMe documents installed with System 7.5 Update 2.0.

### DISCUSSION -----

This file is one of several Read Me files that describe System 7.5 Update 2.0. This three-part document provides details about the changes provided by this software update.

Another Read Me file, "Installing This Update," summarizes the enhancements of this update and gives instructions for installing the update.

In this document:

- Indicates a change made in System Update 2.0 (7.5.3)
- Indicates a change made in System Update 1.0 (7.5.1)

What's in this document (part 3 of 3)

- Changes for PowerPC-based models
- Changes for PowerBook and Duo models
- Changes for other 68K-based models
- Changes for PC cards
- Changes for AppleVision monitors
- Changes related to printing
- Changes related to networking
- Known problems and their workarounds
- Tips

Changes for PowerPC-based models

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- PowerPC-based computers with PCI slots now use the Monitors & Sound control panel to control monitor and sound settings instead of the Sound & Displays control panel. (System Update 2.0 removes Sound & Displays.) You can do a custom installation to install the Sound control panel if you need it for older applications. (The Monitors & Sound control panel works only on PCI-based computers.)

- Includes native SCSI (not on desktop 5200, 5300, 6200, and 6300 series computers).

- Fixes a SCSI Manager problem that would hang any PowerPC-based computer if a Sony or WangDAT DAT drive was used with Retrospect.

- Fixes a problem on desktop 5200, 5300, 6200, and 6300 series computers running QuickTime 2.1 that would prevent sound from being heard in Fusion Recorder's Record window until either a recording was started or the TV volume in the Sound control panel was unmuted.

- Includes both native and 68K versions of common Modern Memory Manager routines, improving performance of emulated applications by speeding up calls to common routines. (System software version 7.5 and 7.5.1 included only the native implementations, while system software version 7.5.2 included both native and 68K versions.)

- Includes a rewritten fixed-point math library to provide better performance for QuickDraw, other parts of the system, and all applications that use this library. Because QuickDraw and other parts of the System use this library extensively, installing this update will cause noticeable performance gains.

- PowerPC-based computers with PCI slots might have a different physical Ethernet address after you install this update. The update fixes a bug that caused an incorrect physical Ethernet address to be used in environments where TCP/IP addresses are obtained using BootP, DHCP, or RARP. To see the new Ethernet address after you install the update, open the File menu in the AppleTalk or TCP/IP control panel and choose Get Info. If you install the update and are no longer able to use your TCP/IP-based applications, contact your network system administrator.

- On PowerPC-based computers (including those with PowerPC Upgrade cards) running system software version 7.5 or 7.5.1, this update introduces the Native Resource Manager. This version of the Native Resource Manager is slightly newer than the version released with system software version 7.5.2. The System 7.5.2 Update file includes the same improved version of the Native Resource Manager.

- Reduces times to open applications on PowerPC-based computers with virtual memory turned on. System 7.5.2 (not 7.5 or 7.5.1) would significantly slow down while opening certain applications, such as Microsoft Excel version 5.0, if virtual memory was turned on. With Update 2.0 installed, launch times should be about the same whether or not virtual memory is turned on.

- Fixes a bug affecting plug-ins that import from an application. This problem existed in all PowerPC-based computers running system software versions 7.1.2,

7.5, 7.5.1, and 7.5.2. and was originally fixed by the CFM Updater extension (distributed with QuickDraw 3D). Update 2.0 deletes this extension, which is no longer needed.

- Fixes a bug in starting up from removable media with virtual memory on. (Although this bug was fixed in 7.5.2, it still exists in 7.1.2, 7.5, and 7.5.1 PowerPC computers.)

- Fixes problems with the DR Emulator. (The DR Emulator works only on PCI-based computers and the PowerBook 2300, 5300, and 500 upgrade.)

- Fixes a problem in certain IDE drives that resulted in cached data not being written to the disk at shutdown.

- Fixes anti-aliasing errors for Kanji Type 1 fonts.

- Fixes a problem that resulted in off-white often being drawn as white. (This effect, while generally subtle, was significant enough for some applications to merit a fix.)

- Fixes a crash problem (a Type 11 error) in Native QuickDraw; this error occurred when using Quark XPress v3.1.1 with system software versions 7.5 and 7.5.1. System 7.5.2 corrected this problem. If you still have Type 11 errors when using Quark XPress 3.3.1 with System 7.5.3 on a PowerPC-based computer, try upgrading to QuarkXPress 3.3.2.

- Fixes a problem in the Dialog Manager that caused some applications to crash after a dialog box was dismissed.

- Supports DayStar Turbo 601 cards in a Macintosh IIci or IIxi.

- If you use Microsoft Office 4.2.1, you need the extension "Office 4.2x Update For Power Mac," version 1.0.1, and the Microsoft Office Manager control panel, version 4.2.1b. You can download these files from the Internet. Download the MC1164.HQX and MOMPATCH.HQX "patch" (update) files from Microsoft. The patches are available on the Internet at

<ftp://ftp.microsoft.com/softlib/mslfiles>

- Includes changes to native QuickDraw which speed up operations such as scrolling, image filtering, and pattern and text drawing. ("Native QuickDraw" refers to time-critical portions of QuickDraw that have been native since the initial release of PowerPC-based computers.

- Updates video software, thus prevent video scrambling during computer startup.

Changes for PowerBook and PowerBook Duo models

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- Contains a new version of password security software. The version that shipped with the PowerBook 5300 and the PowerBook 190 computers could lock out international users since the software to handle international keyboards does

not load until after the password is requested during startup. If the password contained a character that was not available on a U.S. keyboard, it could not be entered and the computer could not finish starting up. The new version of the password security software fixes this problem.

- Fixes a problem in the Assistant Toolbox that caused the Assistant Toolbox to be incompatible with Open Transport.

- Fixes a problem that prevented PowerBooks and PowerBook Duos from going to sleep if SimpleText or certain other applications were running in the background.

- Fixes problems with the DR Emulator. (The DR Emulator works only on PCI-based computers and the PowerBook 2300, 5300, and 500 upgrade.)

- PowerBook Duo docks: Pressing the eject button automatically opens items in the Shutdown Items folder and shuts down the computer. No dialog box appears.

- PowerBook 500 models: Improves trackpad performance.

- PowerBook 150: Extends battery life by reducing power requirements during sleep mode. It also prevents the system from freezing when you repeatedly use the internal modem without restarting the computer.

- PowerBook 150: Eliminates the need for the PowerBook 150 Update system extension. Installing Update 2.0 automatically removes this extension from the Extensions folder (inside the System Folder).

- PowerBook 150: Fixes a problem that prevented the internal IDE disk from appearing on the desktop. The problem occurred if the internal IDE disk was selected as the startup disk, and the Command-Shift-Option-Delete keys were held during startup (to start up from an external hard disk).

Changes for other 68K-based models  
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- Quadra 900 and 950: Fixes a problem in the Sound control panel. Before this update, the External Line and Internal CD buttons in the Sound control panel were reversed, so that clicking the Internal CD button was interpreted as though the External Line button had been clicked (and vice-versa).

- Quadra 950: Fixes a problem with the Sound control panel. Before this update, clicking the Add button sometimes caused the computer to crash.

- Centris 660AV, Quadra 660AV, and Quadra 840AV: Includes Apple Video Player v.1.4, which replaces the Video Monitor application (which is no longer supported).

- Quadra 840AV, Quadra 660AV, and Centris 660AV: Includes new video software that prevents video scrambling during computer startup.

- Quadra 840AV, Quadra 660AV, and Centris 660AV: Fixes a problem in the Dialog Manager that caused some applications to crash after a dialog was dismissed.

- Performa 630, Quadra 630, and LC 630 with internal IDE drives: Fixes a problem that prevented the internal IDE disk from appearing on the desktop. The problem occurred if the internal IDE disk was selected as the startup disk, and the Command-Shift-Option-Delete keys were pressed during startup (to start up from an external hard disk).
- Quadra 700: Fixes a potential problem that could slow down the mouse or trackball.
- Quadra 840AV: Includes an updated Display Manager which ensures that a multi-sync monitor is set to the correct resolution when you restart the computer.

#### Changes for PC cards

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- Macintosh Easy Open version 1.1.1, which is installed with this update, fixes problems with cut and paste between Mac OS and PC applications on Mac OS-based computers with a PC card installed.
- Quadra 610 and Centris 610 computers with the 610 PC card installed receive PC Setup version 1.0.2 (software that was inadvertently not provided with the upgrade disks for System 7.5).

#### Changes for AppleVision monitors

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- If you use AppleVision software, use version 1.0.2 or later. Earlier versions of AppleVision are not compatible with System 7.5 Update 2.0.
- If you have a 1710AV monitor and a PCI-based computer, use AppleVision 1.0.4 and the Monitors & Sound control panel.
- If you have a 1710AV monitor and a non-PCI-based computer, use AppleVision 1.0.2, the Sound control panel, and the Monitors control panel.

#### Changes related to printing

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- Includes version 2.1.1 of the StyleWriter 1200 driver, which fixes a crash bug on System 7.5.2-capable computers.
- Includes the LaserWriter 8F (version 8.2.3F) driver, which supports all the fax options on the LaserWriter 16/600. The LaserWriter 8 (version 8.3.3) driver, which is also included in Update 2.0, does not support all these fax options.
- Supports QuickTime compressed images and ColorSync 2.0 through the LaserWriter 8 (version 8.3.3) driver.
- The LaserWriter 8 (version 8.3.3) and LaserWriter 8F (version 8.2.3) drivers contain fixes for two common printing problems found on PCI-based computers: freezing when trying to print to a printer that's busy, and freezing when trying

to print large documents or printing to LocalTalk-based printers.

- The LaserWriter 8F, version 8.2.3, printer driver provides the following enhancements (introduced in version 8.2):

- Improves the function of the Setup button in the Chooser; this button automatically looks for the selected printer, selects the appropriate PostScript Printer Definition (PPD) file, and configures the paper trays. (If you prefer to manually configure the PPD files and paper trays, you can do so by clicking the Setup button a second time.)

- Resets the destination in the Print dialog box to Printer instead of retaining the previous print job's destination. For example, if the previous destination was Fax, the destination automatically resets to Printer for the next job.

- Enables you to tab backwards through the fields in all print dialog boxes by pressing Shift-Tab.

Note: Installing the LaserWriter 8F version 8.2.3 printer driver removes the LaserWriter 8 Prefs file from your system. Thus, after you install, you need to set up your printer using the following steps:

1. Open the Chooser.
2. Click the LaserWriter 8 icon.
3. Click the printer you want to use.
4. Click the Setup button.

#### Changes related to networking

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On computers with 68030, 68040, or PowerPC processors, Easy Install automatically installs Open Transport networking software, which provides improved network flexibility and performance. Open Transport is available on all computers with 68030, 68040, or PowerPC processors except for the desktop 5200, 5300, 6200, and 6300 series computers. Open Transport will be active only if it was active before the update was installed (otherwise, classic AppleTalk is active). If your computer is not PCI-based, you can use the Network Software Selector (NSS) to switch between Open Transport and classic AppleTalk. You'll find the NSS utility in the Apple Extras folder after you install System 7.5 Update 2.0.

Switching from Open Transport to classic AppleTalk usually causes the network connection to revert to LocalTalk. After you switch networking software and restart your computer, you can use the Network control panel (classic AppleTalk) or the AppleTalk control panel (Open Transport) to reselect the desired network connection.

Depending on your system and networking needs, Open Transport may require 400K-1200K more RAM than classic AppleTalk. In many cases, you can reduce this amount by turning on Virtual Memory.

For more information, see the Open Transport Information folder, inside the Apple Extras folder.

Known problems and their workarounds

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- Apple Video Player displays an incorrect dialog box if it's opened on a computer that does not have video-in capability. Apple Video Player complains that the Video Startup extension was not installed properly instead of stating that video-in is required for this application to run.

- If, when you try to print, you see a message that your printing preferences are missing or damaged, open the Chooser and select a printer.

- Some versions of the LaserWriter driver (version 7.2 and earlier) and the QuickDraw GX printer drivers still have the problems that interfere with PCI-based computers trying to print on a busy printer or trying to print large documents. If you experience these problems, select the LaserWriter 8.3.2 driver from the Chooser.

- Two different control panels are named "Energy Saver." The older version worked by dimming the external screens of certain computers. The newer Energy Saver, which works differently, works only on PowerPC computers with PCI slots.

The universal System Folder that can be created by Update 2.0 contains only the newer Energy Saver. If your universal System Folder requires both versions of the Energy Saver, do the following:

1. Rename the newer Energy Saver.
2. Use Custom Install to install the older Energy Saver.

- The new minimum RAM disk size is 416K. If a smaller RAM disk exists during the installation of this update, it will be turned off and its contents lost when the computer is restarted. Therefore, before installing this update on a computer with a RAM disk smaller than 416K, move all the contents of the RAM disk to another disk.

- Digital audio recording and playback can occasionally "skip" if virtual memory is turned on. To reduce this skipping, turn off virtual memory.

- HyperCard version 2.3.3 or earlier does not record sound properly on computers with PCI slots. Other sound recording application programs, including SimpleSound and the Sound control panel, can record sounds that you can import and play within HyperCard 2.3.

- When used with SerialDMA, DOS Compatibility software will not be able to use hardware handshaking on the PC serial port.

- There is an incompatibility between AppleShare Workstation software version 3.6.1 and Connectix Speed Copy (part of Speed Doubler version 1.1 or earlier). Use the Extensions Manager to turn off Speed Copy before you install this update, and contact Connectix to get the latest version of Speed Doubler. (You can contact Connectix at <http://www.connectix.com>, 415-571-5100, or 800-950-5880.)

- If you have a PowerBook 190 with Open Transport active: If you are using the IR port and networking doesn't work after you restart the computer, try putting the computer to sleep and waking it up, or choose the printer/modem port and then switch back to the IR port.

- If you have a PCI-based Mac OS computer connected to a Novell Netware network: This update contains the Ethernet Compatibility extension version 1.0.3, which fixes a problem in the system shutdown code. To use this extension, you need to Custom Install the Ethernet Driver Update. A side effect of this fix is a two-minute delay in shutting down the computer.

- When using Drive Setup (version 1.0.4 or earlier) on some IDE hard drives, the "Update driver," "Customize volume," and "Test disk" options are dimmed. To use these options, back up all data on the IDE disk (onto another disk), and use Drive Setup to reinitialize the IDE disk.

- If you have a Macintosh Centris 660AV, Quadra 660AV, or Quadra 840AV, some system alert sounds may not play correctly with the alert volume turned down. To avoid the problem, keep the alert volume turned all the way up and adjust the Built-In system volume:

1. Open the Sound control panel.
2. Choose Volumes from the pop-up menu.
3. Adjust the volume.

- Speech version 1.4.1 can cause a Macintosh Plus (a model which does not support speech) to hang during startup. If your Macintosh Plus hangs during startup, do the following:

1. Restart the computer while holding down the Space bar.
2. When the Extensions Manager dialog box appears, turn off Speech.

- If your computer has a 68000 processor and the computer won't start up, try pressing the Shift key (to turn off extensions) while you restart. If there is a "Color StyleWriter 2000 CMM" file in your Extensions folder (inside the System Folder), take this file out of the Extensions folder and restart your computer. (To use the Color StyleWriter 2000 series printer, you need a 68020 or higher processor.)

#### Tips

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- Many LaserWriter LS users are unaware that this printer is supported by the LaserWriter 300 driver. To make this clear, future system releases will rename this driver to LaserWriter 300/LS. For now, you can either rename this driver or wait for a future release to do it for you. If you rename it, you must select the new name from the Chooser before you can print using this renamed driver.

- Recent-documents tracking (in Apple Menu Options) tracks all files that are opened—even those opened by an application as part of its launch sequence (such as drop-in filters used by desktop publishing packages). This tracking can significantly slow down the launching of these applications. To reduce this overhead you can:

- turn off "recent documents" tracking in the Apple Menu Options control panel
- turn off Apple Menu Options in the Extensions Manager

- This update resets all settings in the Apple Menu Options control panel to their default values. If you have made changes to Apple Menu Options, you will need to select them again after installing this update. If you have set Apple Menu Options to track more than ten items in any category, you may want to move



some of those aliases out of their folders before you install the update, which deletes all but the ten most recent items in each category.

Article Change History:

04 Oct 1996 - Removed keyword.

11 Jun 1996 - Corrected minor formatting error.

20 Mar 1996 - Added keyword.

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