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System 7 Tune-Up 1.1.1 Feature Summary (7/93)

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Article Change History

07/08/93 - REVISED and RETITLED

- Title changed to version 1.1.1 and information from similar articles added to the discussion.

09/24/92 - REVIEWED

- For technical accuracy.

TOPIC

This article describes the changes made to System 7 with Tune-Up.

DISCUSSION

This version of System 7 Tune-Up addresses the problem of disappearing files and folders reported by some users running version 7.0 and 7.0.1. It also includes LaserWriter driver version 7.1.1.

LaserWriter 7.1.1 driver provides the following benefits:

- Support for the Personal LaserWriter NTR
- It fixes the bug that causes a compatibility problem between the current driver (7.1) and the LaserWriter Plus.
- A workaround for a bug in the LaserWriter IIf and IIg ROM that causes PostScript errors (under certain conditions) when printing TrueType.

Improved System Behavior In Low Memory Situations

- Fewer Memory Size Alerts

When you open an application, if the available memory is less than the application prefers, but more than its minimum requirement, the application will use the available memory. Memory size alerts such as "Application prefers 1024K of memory, 900K is available, do you want to open using available memory?" won't appear.

- Closed Applications Quit Automatically When More Memory Is Needed
Users commonly get into low memory situations by closing a document window without quitting the application, letting the application remain in memory. With the System 7 Tune-Up installed, the Finder offers to quit such applications automatically to make enough memory available when opening another application.
- Automatic Printing Without Quitting The Application
This helps when you choose "Print..." with background printing on, and there isn't enough memory available to use PrintMonitor. System 7 Tune-Up will print the document immediately, without making you quit the application.
- Reduced System Software Memory Consumption When AppleTalk Is Off
If you turn off AppleTalk with the Chooser and then restart, AppleTalk networking code won't be loaded into system memory. This frees up 100K to 125K, depending on the Macintosh model. If AppleTalk is turned on again with the Chooser, you must restart to use networking services.
- Reduced System Software Memory Fragmentation
As you open applications, desk accessories, and control panels, the amount of memory used by system software increases. Problems in the System 7.0 and 7.0.1 Memory and Process managers prevent some of that memory from being released when those programs quit. System 7 Tune-Up fixes those problems, so more memory is released when applications and desk accessories quit.

Performance Enhancements

- Faster LaserWriter Performance When Printing TrueType Fonts
LaserWriter driver version 7.1 doesn't download software or fonts to the LaserWriter IIf, IIg, IINT, and IINTX if the software or fonts are already in the printer's ROM. This speeds printing of both TrueType and Type 1 fonts. It also doesn't download TrueType software and fonts to the LaserWriter and LaserWriter Plus. Instead, it converts TrueType fonts to Type 1 format and downloads those.
- Faster StyleWriter Performance
StyleWriter driver version 7.2.2 is nearly twice as fast as version 7.1, because it was rewritten based on the Personal LaserWriter LS driver rather than the ImageWriter driver. Now StyleWriter users need the MS Word TrueType Printer INIT from Microsoft to print Microsoft Word documents correctly on the StyleWriter printer.
- Better Font Memory Management
TrueType software uses an area of system software memory to store the most recently used font images. System 7.0 and 7.0.1 clears this area out whenever any new file is opened. TrueType must then refill this memory, slowing performance (especially when printing). With the System 7 Tune-Up, the system clears this memory area only when a new font file is opened, increasing font performance in general and TrueType printing in particular.

- **Faster Chooser Performance**
Chooser 7.1 displays device names faster. Keyboard shortcuts in the Chooser also select devices more quickly. Improvements are most noticeable in network zones with many devices.
- **Faster Finder Copying Of Large Files**
System 7 Tune-Up improves the performance of Finder "move" and "duplicate" operations by up to 20% on files over 200K.

Bug Fixes

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- **Reduced Possibility Of Data Corruption With Shared Files**
A problem in System 7.0 and 7.0.1 makes it possible for File Sharing files to become corrupted when two or more users access the file simultaneously. File Sharing Extension 7.0.2 fixes this problem.
 - **Increased PrintMonitor Reliability**
System 7 Tune-Up makes Print Monitor more reliable and much less prone to crashes.
 - **Bitmapped Fonts In the System File Marked As Purgeable**
System 7 Tune-Up allows the Font Manager to unload certain fonts in the System 7.0 System File from system software memory when not in use.
 - **Aliases to the Trash**
System 7 Tune-Up fixes occasional strange behavior of aliases to the Trash.
 - **SCSI Manager**
With System 7.0 and 7.0.1, using serial communications devices during heavy File Sharing activity can cause the SCSI bus to become confused and seem busy when the bus is free. This causes the computer to hang. System 7 Tune-Up fixes this problem.
 - **Sleeping Keyboard**
At startup, the System 7 Tune-Up repeatedly resets Apple Desktop Bus keyboards, preventing a problem in which some keyboards occasionally fail to wake up. System 7.0.1 includes this fix as well.

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