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Macintosh System Software 6.0 Changes (part 3 of 4)

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Security: Everyone

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System File, Continued

New and Changed Resources

ptch	id = 0	TextEdit, no longer in all three PTCH files.
ptch	id = 1	Menu Manager, no longer in Plus & SE PTCH files.
ptch	id = 2	Notification Manager, new (see separate note).
ptch	id = 3	Sound Manager, new and improved.
PTCH	id = -1	Checks for missing patch resources at startup.
MBDF	id = 0	The id has been changed (was MBDF id=8).
vers	id = -2	New 'version' resource for files; see explanation below.
vers	id = -102	New 'version' resource for products; see explanation.

Removed Resources

PACK	id = 4	SANE, floating point package (now in all ROMs).
PACK	id = 5	SANE, elementary math functions (now in all ROMs).
PACK	id = 7	SANE, various conversion routines (now in all ROMs).
WDEF	id = 0	Window definition procedure (now in all ROMs).
DRVr	id = 9	AppleTalk, protocol package handler (now in all ROMs).
DRVr	id = 10	AppleTalk, transaction protocol handler (now in all ROMs).
NBPC	1 & 2	Now obsolete.

Version Resource

To avoid confusion, all system files are now version 6.0, with the exception of the Finder, which is 6.1. With System Software 7.0, ALL files will have the same version number. Other files in the System Software Update now contain "System Software Update 6.0" in the "Get Info" window as well as their logical version number.

The Finder now displays version information according to a file's 'vers' resources.

Fonts

New York 20, 24 and Geneva 20, 24 have been removed from the System on the Utility 1 disk to resolve space problems.

The Chooser

- The bug of not closing device files (except, of course, the current printer) has been fixed.
- Chooser now remembers the window position.
- Chooser now uses the Palette Manager.
- Chooser can now list sounds in the Suitcase files (below the System file).
- The scramble bug, if a cdev (Color) called _DrawDialog, was fixed.

Other Desk Accessories

- The Alarm Clock now remembers the window position. You can now set hours greater than 12 by typing if Alarm Clock was opened in 12-hour mode and then 24-hour mode was set (using the Control panel).
- The Calculator now remembers the window position.
- Find File now remembers the window position.
- Scrapbook now remembers the window position.

Installer Scripts and Resources

PTCH id = -1 is a new patch resource that checks if the machine you are starting up on has the proper PTCH resource(s) in the system file. If the proper patch code is not present, the user can't boot (a message will appear). This was designed specifically for use with MiniScripts (see below), so this patch is installed during MiniScript installation.

The bug of not deleting owned resources unless the owner was in the src file has been fixed.

Empty System files are now created on MFS disks too for installing on blank MFS disks.

The Installer now looks for a AppleShare server before blessed folder.

Font/DA Mover

Support for NFNTs and styled fonts has been added.

A confirmation alert was added for the Remove process.

Finder File

Disk Copy: when copying an entire 800K disk to another, the Finder now uses an "image" copy to create an exact duplicate of the original.

The name of the Print Catalog command has been changed to Print Directory.

The maximum number of windows can be set by changing the last word in the LAYO resource.

MultiFinder File

New Features

MultiFinder now copies the WDs of an application that calls _Launch and includes them in the AppParmHandle.

PrintMonitor is broken down into 5 segments, to allow it to perform in 72K instead of 78K.

Print Monitor now gives visual notification when printing has been stopped via the PrintMonitor window.

MultiFinder Fixes

Double-clicking on a document, when the application is already open, now opens the document. The user no longer sees "The application is already open." Including the resources 'mstr' #102 and 'mstr' #103 in an application allows you to override the default "File" and "Open..." strings respectively when MultiFinder searches for the open menu item. Resources 'mst#' #102 and #103 can be used instead, if necessary (for multiple languages). The Standard File package was patched to implement this.

Background notification support is added. See the section on Notification Manager.

There is a new bit (bit 9) in the SIZE resource, to allow an application to get mouse clicks in its front window during layer switches.

MultiFinder 6.0 does not work with pre System 4.2 files (notified through an alert box). This was done to save 3K on the System Disk.

Developers should be even more careful about fooling around with the enable flag for the Apple menu. In particular, applications are making assumptions that the second item is a dashed line, and then disabling it (often directly and not by calling `_DisableItem`) on the fly. The suggested way to do this is to set the flags correctly in the "Menu" resource for the Apple menu at compile time.

The menu bar Icon no longer inverts during shutdown.

The bug where an application in the foreground should not call `WaitNextEvent` with a sleep value > 50 is fixed.

The bug that would cause an application to crash when selecting a menu key for a pop-up menu has been fixed.

Mouse clicks no longer get lost.

Files opened by an application will be closed, even if the application crashes (MultiFinder monitors the files opened by each application and closes remaining files itself).

MultiFinder no longer crashes with applications that have no Apple menu, but do use hierarchical menus.

String list resources ('mst#',100) and ('mst#', 101) can be used instead of the old 'mstr' strings to override the names used when MultiFinder looks for the "Quit" menu item.

The old `_Launch` call, which applications still use (for example, in `Transfer...` menu items), now just switch to an application that is already running. As a consequence, trying to close the working directory of the launched application's resource file returns an error.

Applications no longer have to pass fake (de)activate events to DAs in their layers when they receive suspend/resume events.

Applications that have the MultiLaunch bit set will no longer lose their SIZE resource attributes if switch-launched from an application other than the Finder.

The "Out of Memory" alert no longer appears if a DA could not be found; a more appropriate message appears.

The clipboard is no longer lost when the user chooses Cut in the Edit menu. It turns out that this never worked!

Before, running two applications with the same name trashed the icon, in the Apple menu, of the launched application when quitting the other. This problem has been fixed.

Resource manager code that was causing crashes because of a bug in the MPW grow zone procedure has been fixed. The problem was that MPW was calling

_CloseResFile inside the grow zone Proc, which was getting called from _GetResource. This caused a reentrancy problem for the MultiFinder resource Manager patches.

Synthesized fonts are no longer being put in the application heap.

MultiFinder's temporary memory requests should be located higher in memory, and are thus less likely to pin down the system heap.

The icon in the menu bar is now exactly the same color as the text in the menu bar.

Background applications that crash before the first call to _GetNextEvent no longer crash the system.

DrawMenuBar will not do anything when called from an application that is in the process of being switched out. This significantly cuts down on menu bar flicker.

Drivers that are part of an application now get SystemTask time if the application gets background time.

MacroMaker no longer crashes with Print Monitor.

Applications that call _Launch on themselves no longer crash.

Mouse-moved events now show up more often. Is is still arguable as to whether they work correctly.

MultiFinder now handles the case where a background application has called _InitWindows, but has not yet called _GetNextEvent. In the past, it would quit or crash. Previously, _ExitToShell would return to the caller.

MultiFinder now calls _Sound Dead when an application quits. This fixes the bug where system beep stopped working.

The bug where despooling would never occur when background printing from a HyperCard script has been fixed.

The bug where booting on a Macintosh II with >1 bit depth and a large number of INITs would crash MultiFinder on startup has been fixed.

Continued

This article continued in "Macintosh System Software 6.0 Changes (part 4 of 4)".

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