

## System Software Edition, April 1994

Spring is in the air, and the System Software Edition of the Developer CD is in your mailbox, featuring 120 Mb of new and revised system software, tools, utilities, and technical documentation. Of special interest are two new volumes of Inside Macintosh: IM—Networking, and IM—PowerPC System Software.

However, to fit this much new material on a disc that was already full we have had to temporarily move a few things. While new versions of QuickTime for Finland and Norway can be found in the “What’s New” folder on this disc, the rest of the QuickTime folder will be found on next month’s Tool Chest Edition. Also, Performa system software and Printer Drivers (except for LaserWriter 8.1.1) have been temporarily omitted, and will appear again on the next System Software Edition in July 1994 (as, hopefully, will the boot-everything System Folder I mentioned last month.)

Another new addition of interest this month is the Survey, located in the “CD Info” folder. It’s short, sweet, and no longer in HyperCard, so it’s much easier to fill out and send in. I love feedback, and I don’t get nearly enough, so please take a minute or three to let me know what you think of the Developer CD Series. Completed surveys can be sent to AppleLink DEV.CD, internet mail [dev.cd@applelink.apple.com](mailto:dev.cd@applelink.apple.com), or via SnailMail to:

Developer CD Series  
Apple Computer, Inc.  
3 Infinite Loop MS 303-4DP  
Cupertino, Ca. 95014 U.S.A.

This month’s new and revised material includes:

**AppleScript™ 1.1:** Contains the complete AppleScript Runtime package including

"Scriptable Text Editor", Script Editor, AppleScript and sample scripts.

**ASLM v1.1.1 SDK:** ASLM provides an API Shared Library support on the Macintosh, allowing you create and use dynamically linkable and loadable shared libraries.

ASLM 1.1.1 is a bug fix release for ASLM 1.1. It is binary compatible with ASLM 1.1 clients and shared libraries. They do not have to be rebuilt to use ASLM 1.1.1. Please see the "Change History" document for a list of changes and bug fixes.

**ColorSync™ 1.0.4:** ColorSync™, Apple's color-matching architecture for the Macintosh, is a system extension that enables consistent color across the system. The key components of ColorSync are the ColorSync extension, ColorSync System Profile control panel, and ColorSync Profiles for Apple's color monitors.

ColorSync 1.0.4 provides these new features:

- ColorSync functions are now separated into separate extension and control panel files
- ColorSync provides support for both 68K and PowerPC CPUs
- Profiles for new Apple products:
  - PowerBook 270C
  - Apple Multiple Scan 20
  - Apple Multiple Scan 17

**Developer Notes Update:** Hot off the shelf this month are two new Developer Notes. The first describes Apple's new family of Power Macintosh computers and gives third party developers the necessary technical information they need to design hardware peripherals and compatible software for these new PowerPC Processor-based Macintosh machines.

The second describes the new QuickTake 100 Digital Camera, a device that captures 24-bit color images which can be downloaded to either a Macintosh computer or a computer running Microsoft Windows. This note includes software information that is invaluable to developers for creating Macintosh or Windows applications that take advantage of the features of the QuickTake 100 camera. Hard copy versions of Developer Notes are also available through APDA.

**DiskFiller:** DiskFiller is a little utility that allows users to instantly fill any mounted disk. This is incredibly useful for testing low-disk-space conditions. You no longer have to duplicate file after file to fill your hard disk. It creates a file on the root level of the filled disk called "Filler". To free the space, the user can throw away the "Filler" file.

**Installer 4.0GM SDK:** Installer 4.0 provides a mechanism to install software to both 68K and PowerPC based Macintosh systems.

Features:

- Support for integrated decompression of files, resources, and fonts. This support uses the Atom Extender feature, which provides an open architecture for third-party compression/decompression services to help developers save money.
- Custom Install rules to provide run-time control over the Custom Install list. The scriptwriter now has the same control over the Custom Install interface as has been available in Easy Install.
- The Custom Remove feature is no longer hidden. Software removal is now an obvious feature and an integral part of the human interface.
- Users can select a target application folder. The scriptwriter can choose to allow the user to select a new or existing folder to install application files into.
- Support for very large files, resources and fonts. Large files and resources can be split across source disks and automatically joined by the Installer during installation.
- Files and resources can be compared by version number. The new Version Compare feature allows the scriptwriter to calculate version information for files and resources to correctly handle updating existing files and resources.
- Multiple target volume support. The system files can be placed on the boot disk and the application files can be placed on another disk.
- Installer 4.0 is modeless. If an error occurs such as low disk space the user can easily switch to the Finder to correct the problem without quitting the Installer.
- Ability to install onto the Installer's volume. The user can select the Installer's volume to install onto, with built-in checks for ensuring that no source file will be overwritten.
- Installations can be canceled when disk space is available. The "rollback" feature during "live" installation is now always available when enough disk space is available to save original files until the installation successfully completes.
- Target files can be determined at installation-time. The File Search Procedure feature allows the scriptwriter to use a code resource to specify zero, one or more files to act upon.

- Auto routing of fonts. The scriptwriter can write the script to install fonts into the “Fonts” folder under System 7.1 and if the target System version is pre-7.1 the fonts will automatically be routed to the System file.
- Easy merging of source file resources into a target file. The ResMerge Atom is available for merging all resources from a source file into a target file. This allows flexibility for developers distributing applications that contain both PowerPC and 68K code.
- Support for easily copying a folder. The Folder Atom is available for easily copying all files in a source folder to a target folder.
- Enhanced user interface. Available and requested disk space is shown in the window, as well as the ability to move and resize the window.
- Script controllable help window. A new help window provides ample area for the scriptwriter to add customize help PICTs.
- Runs most 3.1-3.4.x scripts. Virtually all 3.3 and newer scripts should run using Installer 4.0, and many 3.1 - 3.2 scripts should run as well
- Installer script debugger. The Installer Debugger helps scriptwriters to debug and test Easy and Custom rules while providing enhanced run-time error reporting.
- and much more... We’ve fixed numerous bugs and enhanced many other areas of the Installer application.

The licensing agreement for 4.0 is different than what was in place for Installer 3.4.x. Contact the Apple Software Licensing group for the specifics on licensing.

**MacsBug 6.5d6:** This is the latest non-final version of MacsBug, Apple's 68K object-level debugger. This version now supports machines with multi-bit displays, such as the PowerBook 165c and 180c. It has support for the Modern Memory Manager, which has been introduced with Macintosh on PowerPC. It now supports disassembling and breaking on selector-based A-Trap calls.

**Network SW Installer 1.4.2:** You can use this Network Software Installer to install the following networking products:

- Update to AppleTalk version 58.1.2
- Network Control Panel version 3.0.2
- AppleTalk Internet Router 2.0 (requires router installation disk)
- Update to EtherTalk version 2.5.6
- Update to Ethernet driver version 1.1 for the Apple Ethernet NB Card
- Update to Ethernet driver version 6.0.5 for the Apple EtherTalk NB Card
- Update to Ethernet driver version 1.1 for the Apple Ethernet NB Twisted-Pair Card
- Update to Ethernet driver version 1.1 for the Apple Ethernet LC Card
- Update to Ethernet driver version 1.1 for the Macintosh Quadra 700/900/950/800, Centris

610/650, built-in Ethernet port.

- Ethernet driver version 1.0.1 for the Macintosh Quadra 840AV and Centris 660AV
- Added support for Ethernet driver version 1.1 for the Apple Ethernet LC Twisted-Pair Card
- Added support for Ethernet driver version 1.1 for the Apple Ethernet CS

Twisted-Pair/Coaxial/AAUI Card

- Update to TokenTalk version 2.5.6
- Token Ring Control Panel version 1.0.1
- Token Ring driver version 2.5.2 for the TokenTalk NB and Token Ring 4/16 Cards

See the ReadMe file for details.

**Thread Manager Extension 2.0:** The Thread Manager is a System 7 Extension which allows applications to make use of multithreading within an application on 680x0 and PowerPC Macintosh platforms.

Thread Manager Features:

- The Thread Manager is supported by Apple Computer
- Is a real live Macintosh Toolbox Manager, with A-Traps and everything.
- Allows an application process to be broken into simple subprocesses that proceed concurrently in the same overall application context.
- Cooperative and Preemptive threads in 680x0 apps
- Cooperative threads only in PowerPC apps
- Easy-to-use™ programming interface

- Documentation is less than 2" thick
- Fast context switch times (does not BlockMove thread stacks like the old Threads library does)
- You can pass parameters on the stack (due to the above reason)
- Threads can have custom in/out context handlers
- Useful sample code provided
- Useful sample libraries provided
- Useful debugging tools provided
- Version 2.0 supports PowerPC applications!

Thread Manager 2.0 runs on Macintosh Plus through PowerPC based Macs under System 7 (7.0, 7.0.1, 7.1, etc.).

**Coming Next Month:** As well as a new Apple Style Guide and other things *inside*, the May Tool Chest CD should also feature a new *outside*. Stay tuned...

Alex Doshier  
Developer CD Leader