



# *Mac OS Release Strategy*

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# Mac OS Strategy

## ***Make complex technology easy to use***



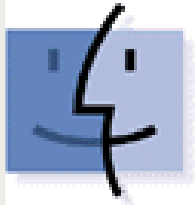




- Make the Internet part of the OS
  - Build on flexible component-based technology
- Extend multimedia leadership
  - Audio, Video, 3D, VR, Video Conferencing
- Advance the total user experience
  - Improve productivity and efficiency
- Continuously improve the OS
  - through regularly scheduled Mac OS releases



# Mac OS Release Strategy

- **Regularly scheduled Mac OS releases**
  - Major reference releases every six months beginning January 1997
  - 2-3 disk system updates between releases
- **Integrate latest core technologies**
  - Apple does system integration not customer
  - Enables developer to better plan, test, & implement
- **Deliver compelling technologies from Mac OS 8 sooner**

# Mac OS Roadmap

1 9 9 6		1 9 9 7		1 9 9 8	
Mac OS Releases					
 System 7.5 Version 7.5.3		 Harmony July '97		 Jan '98	
Updates					
	 System 7.5.5 Update	 March update	 October update	 Etc.	



# System 7.5.5 Update

## ***Continuous Improvement Model***

- Improved Virtual Memory
  - Better performance for launching & booting
- Universal System Folder, 2-3 disk model
- Clear version naming scheme
- Addresses pressing customer issues
  - Bug fixes for type 11 error, floppy use on DOS compatible, floppy formatting, sound applications, Open Transport support on 5400/6400



Mac OS

***Harmony***



# Harmony

- **System 7-based**
  - Excellent backward compatibility
- **CPU support:**
  - 32-bit clean '030, '040, PPC, incl. compatibles
- **Default installs**
  - OpenDoc & Cyberdog , QD3D, QTVR, QT 2.5, Apple System Profiler ('040 and up), CFM 68K, & MP software



# Harmony

- **Changes to Finder**
  - Bigger RAM footprint (~ 50K)
  - Will break patches to jump tables!
- **No 24-bit support** - special case the code
- **Modern Memory Manager** - always on
- **VM** - default is on
  - Physical + 1M, 16M minimum
  - affects multimedia apps, Photoshop, RAM Doubler





# Harmony

- **Open Transport-only**
  - Compatibility layers available, but with a speed hit
  - future improvements only in Open Transport
- **Large volume support - up to 2 terabytes**
  - be ready for large volumes, create fewer files



# Harmony

- **APPCs - new with Harmony**
  - Load init code at startup, auto-routed to CP folder, they launch as app, design HI as Control Panel
- **Removing “Macintosh” for licensees**
  - About this Computer..., Mac OS Easy Open, Mac OS Guide, no more “Welcome to Macintosh”
- **Memory control panel**
  - fixed the pop-up menu’s appearance
  - fixed conflict between RAM disk & Virtual Memory



# Harmony & the Internet

## ***Easy Internet access***

- Brings Live Object Internet links to applications and the desktop
  - URLs are double-clickable items in the Finder
  - Powerful built-in email services with Cyberdog
- **Simplified Internet set-up & access**
  - TCP/IP, PPP, and Apple Remote Access by default
- **Standards support**
  - SMTP, FTP, HTML, JPEG, GIF w/Cyberdog



# Configuration & Ease-of-Use Improved

*New ways to work better and faster*

- **LaserWriter 8.4.1** - less modal, more flexible
- **Easier, better install**
  - New Installer technology - unified step-by-step process
  - Forces running DFA, promotes hard disk driver update
- **More effective system management**
  - Extensions Manager improves control & organization
    - Provides information about files - CCI™ resource
    - Can group as package - uses 'vers' 2 resource

## Install Mac™ OS



**IMPORTANT** Please perform all four steps below to ensure successful installation.

✓ 1.

### Read before you install

Click the button at the right to read important information about using this program to upgrade your system software.



✓ 2.

### Update disk drivers

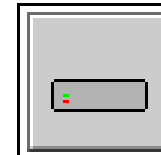
Click the button at the right to use Drive Setup or HD SC Setup to update your hard disk driver programs.



3.

### Select disk

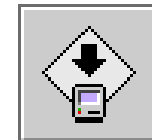
Use the button at the right to select the disk where system files will be installed.



4.

### Select installations

Click the button at the right to start installing your new software.

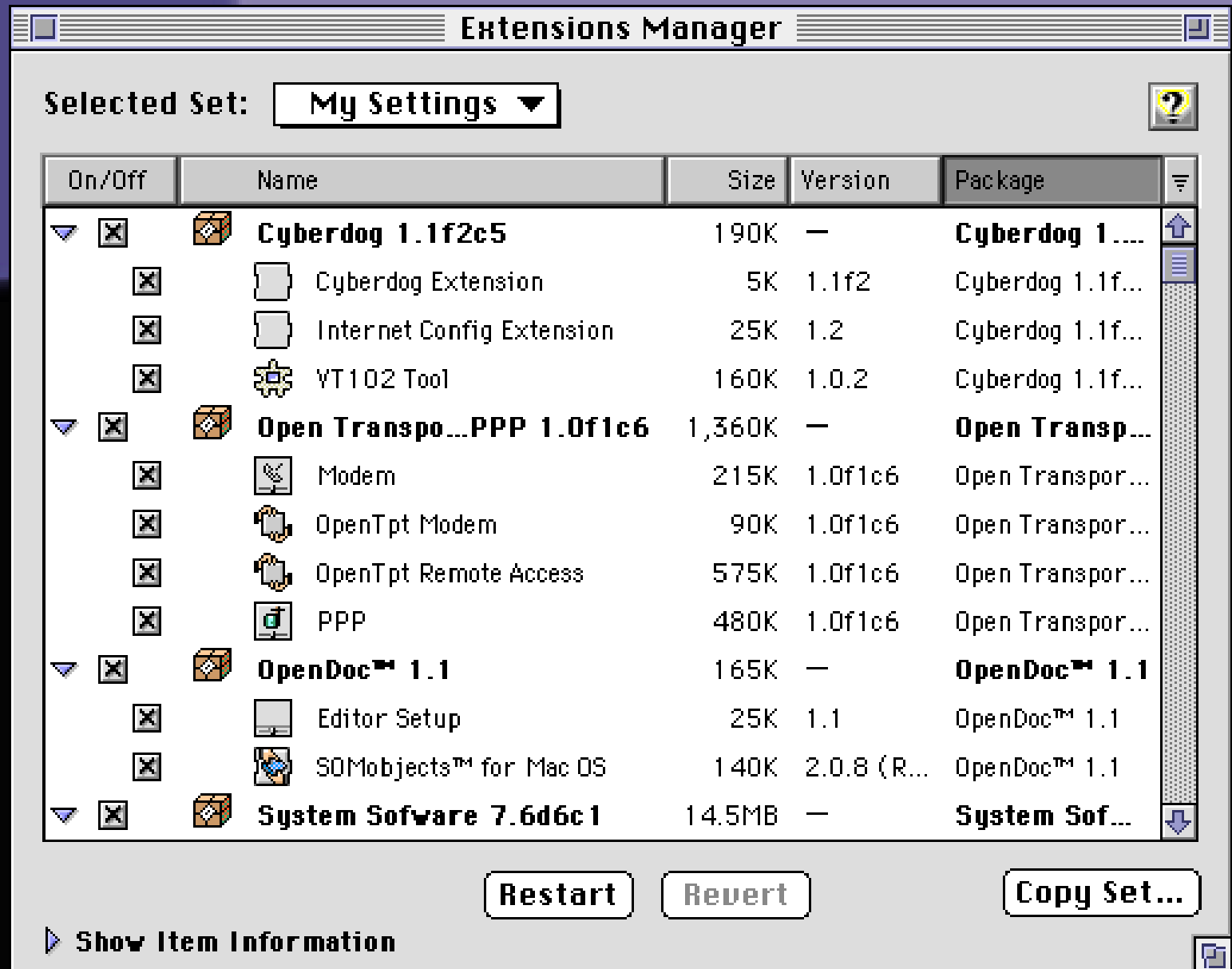


New Installer technology provides a unified step-by-step interface to simplify installation



Mac OS

# *Mac OS Install Demo*



New Extensions Manager helps organize, control, and better understand extensions



Mac OS

# ***Extensions Manager Demo***





# Improved Launch Times with VM

***Tests run on 7200/75 and 8100/80***

- Microsoft Word launches up to 45% faster
- Photoshop launches up to 50% faster
- Painter launches 15% to 30% faster
- Varies by system, VM setting, and app



# OpenDoc & Live Objects



- **Universal component-software technology**
  - Multiplatform: Mac OS, Windows, OS/2, AIX
  - Standards-based and endorsed by OMG
- **Mix and match software components**
  - Extend app functionality w/simple drag-&-drop
- **Live Objects brand & seal**
  - ensures compatibility between components





# State-of-the-art Multimedia



- Latest QuickTime technologies
  - For digital video, music, 3D graphics, & speech
  - QuickTime 2.5, QuickDraw 3D 1.0.6, QuickTime VR viewer, PICT, GIF, JPEG, TIFF, Draw, Button, Audio, etc.
- Expanded multimedia content support
  - within OpenDoc-aware documents & apps



# Improved PC Interoperability

- Open, view, & save Windows 95, Windows 3.x, & DOS files
- Open Mac OS & Windows files without the original application
- Read and write to PC-formatted floppies, Syquest cartridges, & SCSI drives
- Long filename support should arrive in July



# What's in Harmony

- Improvements from System 7.5.5
- New Installer Technology
- Extensions Manager 4.0
- Finder 7.5.6
- Open Transport 1.1.1
- LaserWriter 8.4.x
- Desktop Printing 2.0
- ColorSync 2.1
- Apple Guide 2.1
- CD-ROM Setup 5.3
- PC Exchange 2.1.1
- QuickDraw 3D 1.0.6
- QuickTime 2.5
- OpenDoc 1.1.1
- Cyberdog 1.2
- Live Objects Essentials
- DataViz MacLink Plus 8.1
- Text to Speech
- ARA 2.1
- Energy Saver 2.0.3
- Apple System Profiler 1.1
- TCP/IP 1.1
- MP Support
- Control Strip 1.3.1



Mac OS

***Tempo***



# Tempo

## ***July 1997 Mac OS release***

- Feature set is subject to change
- System 7-based
  - Builds on Harmony & update
  - Excellent backward compatibility
- Latest versions of core technologies
- Continue to improve reliability & stability
- Supports 68040 & PowerPC
  - Exception: any 68030 w/PowerPC or 68040 upgrade card



# Productivity and Efficiency

## ***Deliver visible Mac OS 8 user value***

- **New appearance**
  - Grayscale appearance of Mac OS 8
  - Several applications now implement spec
- **Improved Color Picker**
  - Apple Crayon, HTML, & CMYK pickers as well as an eye-dropper tool
- **Assistants Simplify Complex Tasks**
  - Not a replacement for control panels interface
  - Internet Setup Assistant
    - First time internet configuration





# Internet Integration

- **Easy Internet setup and configuration**
  - Include key connectivity tools
  - Internet Setup Assistant and Apple Internet Connection Kit (AICK) library
- **Built-in communication & info access**
  - Cyberdog 2.0: Enhanced web browser
  - Mac OS Runtime for Java (a.k.a. MRJ)
- **Pervasive access**
  - Finder level e-mail and browser access points



# Performance

- Performance tuning where it counts most
  - More PowerPC native code
  - I/O throughput
  - System startup time
  - Application launch time



# Additional enhancements

- **Additional OpenDoc integration**
  - Auto-routing of Editors
  - OpenDoc documents in Recent Documents folder
- **PowerPC Platform (PPCP/CHRP) support**
- **Hard drive allocation block size**
- **DVD volume support**



# Finder 8.0

## ***Evolution of the Mac OS 8 Finder***

- Multi-threaded: perform tasks concurrently
- PowerPC native: improved performance
- New navigation & info management features
- New menu items
  - Find Original, Move to Trash, etc.
- Contextual menus
- and many more...



Mac OS

***For more info  
contact...***