



1990 Worldwide Developers Conference

Apple IIGS
System Software Update



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Apple II GS System Software Update

GS/OS

GS/OS Topics

- Device and file system independence
- Compatibility issues
- New Goodies!

Device and File System Independence

- GS/OS can use any device via
 - Loaded drivers
 - Generated drivers
- GS/OS can use any file system*
 - * With the appropriate File System Translator.
 - ProDOS
 - AppleShare
 - More to come...

Compatibility Issues

- Don't assume anything about file system
 - Filename limitations
 - Volume size limitations
 - Directory structure
- Use Class 1 strings whenever possible
 - More flexible than Pascal or C strings
 - Not any harder to use than Pascal or C strings
- Refer to GS/OS Tech Note #4 for details

New Goodies!

- Memory usage improved in next release
 - Memory is less fragmented
- New Apple II High Speed SCSI Card
 - 1 Mb transfer rate on IIGS, .5 Mb on //e
 - Conforms to ANSI SCSI standard
 - New SCSI.Manager, SCSIHD.Driver, SCSICD.Driver shipped with card
 - SCSI.Scan.Driver, SCSTape.Driver available from APDA



Apple II Forever!



Jim Mensch

Apple II System Software
Engineer



Apple IIGS System Software Update

Apple IIGS ToolBox

Apple IIGS ToolBox Overview

- Provides tools for programmers
- Supports standard Apple human interface
- Allows *non-standard* human interfaces
- Many tools in ROM

Apple IIGS ToolBox Philosophy

- Provide Support for common functions used most often by desktop programs
- Easy to use
- Small and fast
- Allow developers to write their programs

Apple IIGS ToolBox Desktop Tools

- Windows/Menus/Controls (WCM)
 - Standard *and* Custom
 - Taskmaster: the time saver
 - Work as a well-oiled unit
- QuickdrawII
- Apple IIGS Memory Manager

Apple IIGS ToolBox Overview

- Non-Desktop tools (and some Raving)
- Sound: check out MIDISynth
- Math and drawing support
- Misc tools (and misc tools)

Some Apple IIGS ToolBox Futures

- Listen to developer suggestions
- Make Taskmaster do more
- Increase speed as much as possible within reason
- Maybe add an animation tool or two



Tea for II
(and Apple II for tea!)



Jim Merritt

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Appl. and Utilities Group
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Apple IIGS System Software Update

Applications, Utilities,
and Universal Access

Applications, Utilities, and UA

- GS Finder 1.3
- Graphic Control Panel NDA 1.0
- GS Installer 1.1
- Universal Access: Video Keyboard

GS Finder 1.3

Network Awareness and Much More!

- Full, fast Apple desktop in color
- AppleShare support
- Interface enhancements (e.g., Icon Info)
- GS/OS support (e.g., rsrc. files, UC/lc names)
- For developers: messages, custom icons

GS Control Panel NDA 1.0

Visual, Convenient, Extensible

- User stays in desktop environment
- Provides shell and services for CDEVs
- Primary CDEVs included on System Disk
- Developers provide custom CDEVs

GS Installer 1.1

Convenience for Users *and* Developers

- Multiple updates at one time
- Updates to or from network volumes
- Fewer disk-swaps on single-drive systems
- Update scripts may include caution alerts
- Removal of files older than specified date
- Developers may write installation scripts

Universal Access

Anyone Can Play!

- Universal Access
 - Ability, disability depend on point-of-view
 - Ensure access through many I/O methods
- Video Keyboard: UA product #1 (more soon)
 - Full keyboard on-screen, use any pointer
 - Survives across applications
 - Beta version available through APDA



II Infinitum!