



GS/OS

#1: Contents of System Software Distribution Disks

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This Technical Note describes the contents of the disks System.Disk and System.Tools and the minimum files necessary to boot GS/OS starting with System Software 5.0.

Changes since January 1991: Now describes System Software 6.0. Changed the title to not reflect disk names.

This Note gives a description of each of the files in the Apple IIGS System Software 6.0 package. This package includes six disks: Install, SystemTools1, SystemTools2, Fonts, synthLAB and System.Disk. System Software 6.0 requires at least 1 MB of memory, one 3.5" drive and another storage device (either a second 3.5" drive or a larger capacity device). 2 MB of memory and a hard disk are highly recommended.

System.Disk is a pre-configured boot disk for floppy-based users. Because all the files on System.Disk appear on other disks in the 6.0 set, they are only listed and not described a second time.

Contents of Install

ProDOS

Every file system boots differently; the boot blocks for ProDOS disks look for a file name ProDOS. This is that file. It is the GS/OS file system stub necessary to start the boot process.

System

The directory containing most of the GS/OS files.

CDevs

The directory containing all Apple IIGS Control Panel Devices (CDevs) required for installing 6.0.

General

Allows setting of general system parameters.

RAM

Controls the size of the RAM disk and the GS/OS Disk Cache.

SetStart

Lets you choose which application to boot into.

Desk.Accs

The directory containing all the classic and new desk accessory files to be loaded at boot time.

ControlPanel

The New Desk Accessory which allows users to control almost all system parameters and choose printers and file servers.

Drivers

The directory containing all device drivers needed by GS/OS and the Toolbox (including the Print Manager and MIDI Tools).

AppleDisk3.5

The Apple 3.5 Drive device driver for GS/OS. Also drives SuperDrives connected to the Apple II SuperDrive interface card.

AppleDisk5.25	The driver for Apple 5.25" disk drives, including Disk II drives and Apple UniDisk 5.25 drives. This driver is required for GS/OS to recognize 5.25" disk drives. In 6.0, it is up to 300% faster than in earlier versions of system software.
Console.Driver	The text screen and keyboard device driver for GS/OS.
SCSI.Manager	The GS/OS SCSI Manager, the supervisory driver that arbitrates hardware-level usage of Apple's Apple II SCSI cards.
SCSIHD.Driver	The GS/OS driver for SCSI hard disks. This driver is required for GS/OS to recognize SCSI hard disks.
UniDisk3.5	The GS/OS driver for UniDisk 3.5 drives. This driver is required for proper operation of UniDisk 3.5 drives. Using the UniDisk with GS/OS without this driver eventually corrupts media.
Error.Msg	A compiled file containing all error messages required by GS/OS. This file is separate from the GS.OS file to provide easier support for localization.
Fonts	The directory containing all system fonts to be used.
FastFont	This makes Shaston 8 text drawing much faster.
FSTs	The directory containing the file system translators to be loaded at boot time.
Char.FST	The character device FST.
Pro.FST	The ProDOS FST.
GS.OS	The remainder of GS/OS.
GS.OS.Dev	The GS/OS Device Manager and associated core routines. Separate from GS.OS for speed reasons.
P8	The ProDOS 8 operating system.
SetStart.data	An invisible file created by the SetStart Control Panel, indicating which application the system should boot into. On this disk, this points to the Installer.
Start	The boot program. If this file exists, GS/OS always launches it upon booting. Under 6.0, this program usually reads the SetStart.data file and launches the indicated application.
Start.GS.OS	The file containing the GLoader and GQuit routines. It loads the files GS.OS and GS.OS.Dev, which contain the rest of the operating system.
System.Setup	The directory containing all the initialization files to be executed at boot time.
Resource.Mgr	The Resource Manager. This is an initialization file; the design of the Resource Manager requires it to be present even when an application has not specifically loaded it. The system does not boot if this file is not present.
Sys.Resources	A file containing system resources, available to the system software and to applications.
Tool.Setup	A required file that loads files which contain all the patches to tools in ROM for ROM levels 01 (TS2) and 03 (TS3). Tool.Setup would attempt to load TS1 if executed on a machine with ROM level 00, but GS/OS does not boot on such a machine, therefore, TS1 is not included. Tool.Setup also contains patches common to both ROM 1 and ROM 3.

	TS2	Patches to ROM tools for ROM 1.
	TS3	Patches to ROM tools for ROM 3.
Tools		The directory containing tool files for all tools not in ROM.
	Tool014	Window Manager .
	Tool015	Menu Manager.
	Tool016	Control Manager.
	Tool018	QuickDraw Auxiliary.
	Tool019	Print Manager.
	Tool020	LineEdit.
	Tool021	Dialog Manager.
	Tool022	Scrap Manager.
	Tool023	Standard File.
	Tool027	Font Manager.
	Tool028	List Manager.
	Tool034	TextEdit.
Icons		The directory containing all the Finder's old-style icon files as well as new Desktop database files and file type descriptors.
	FType.Apple	The file type names used by the Finder (on all systems).
Installer		The Apple IIGS Installer program. This program makes use of scripts found in the Scripts directory on this disk to install parts of the system, as well as third-party applications, without the user needing to copy individual files.
Scripts		This directory contains all the scripts for the Installer. On launch, the Installer looks in its parent directory for the Scripts directory and the scripts it contains. It also reads MessageCenter message #1.
	A2.RAMCard	Script to install the driver for the Apple II Memory Expansion Card (the slot-based, or "slinky" card).
	Adv.Disk.Util	Script to install the Advanced Disk Utility program.
	Apple.Bowl	Script to install the Apple Bowl game.
	Apple.MIDI	Script to install the Apple MIDI Interface driver and tool set.
	AppleDisk5.25	Script to install the 5.25" disk driver for GS/OS.
	AppleShare	Script to install AppleShare.
	AppleShare3.5	Script that creates an 800K or 1440K GS/OS startup disk which contains AppleShare.
	Archiver	Script to install Archiver, the new GS/OS-based backup program.
	Aristotle.Patch	Script to install a change to Aristotle for easier class transition.
	ATImageWriter	Script to install the ImageWriter printer driver for the Print Manager, as well as the files necessary to work with AppleTalk.
	ATImageWriterLQ	Script to install the ImageWriter LQ printer driver for the Print Manager, as well as the files necessary to work with AppleTalk.
	Calculator	Script to install the Calculator new desk accessory.
	Card6850.MIDI	Script to install the 6850-based MIDI Interface card driver.

CDROM	Script to install the High Sierra FST as well as the SCSI Manager and SCSI CD-ROM driver for GS/OS.
CloseView	Script to install the CloseView NDA, which makes the screen more legible to some visually-impaired users.
DCImageWriter	Script to install the ImageWriter printer driver for the Print Manager, as well as the files necessary to connect it to a serial port.
DCImageWriterLQ	Script to install the ImageWriter LQ printer driver for the Print Manager, as well as the files necessary to connect it to a serial port.
DOS3.3.FST	Script to install the read-only DOS 3.3 file system translator.
Easy.Access	Script to install the EasyAccess init, which provides sticky keys and keyboard mouse to ROM 1 users.
Epson	Script to install the Epson printer driver for the Print Manager, as well as the parallel card driver.
Fonts	Script to install the minimum suggested font set.
Fonts.Max	Script to install all fonts provided with System 6.0.
Fonts.Std	Script to install the standard font set.
HFS.FST	Script to install the Hierarchical File System (HFS, used on the Macintosh) file system translator.
Inst.Sys.Min	Script to install a minimal GS/OS system on an 800K volume. Note that this is different than 5.0.x's "Inst.Sys.Min" script, the 6.0 version of which is in the file named "AppleShare3.5".
Inst.SysF.NoFin	Script to install a minimal GS/OS system, without the Finder, on a given destination volume.
Instal.Sys.File	Script to install a complete System Software 6.0 configuration, including new features, on a given destination volume.
LaserWriter	Script to install the LaserWriter printer driver for the Print Manager, as well as the files necessary to work with AppleTalk.
Local.Net.Boot	Script to create a 3.5" floppy disk with minimal system software that boots into a server selection program (the network "Start" program from SystemTools2).
MediaControl	Script to install the Media Control toolset and all Media Control drivers supplied with System 6.0.
MediaCtrl.CDSC	Script to install the Media Control toolset and the drivers to work with the Apple CD SC drive.
MediaCtrl.P2000	Script to install the Media Control toolset and the drivers to work with the Pioneer 2000 series laserdisc players.
MediaCtrl.P4000	Script to install the Media Control toolset and the drivers to work with the Pioneer 4000 series laserdisc players.
Namer	Script to install the printer Namer Control Panel. Namer II (a ProDOS 8 application) is not included with System 6.0.
Pascal.FST	Script to install the read-only Apple II Pascal file system translator.
Quick.Logoff	Script to add a quick logoff feature to AppleShare.

SCSI.Hard.Disk	Script to install the SCSI Manager and SCSI hard disk driver for GS/OS.
SCSI.Scanner	Script to install the SCSI Manager and SCSI scanner driver for GS/OS.
SCSI.Tape	Script to install the SCSI Manager and SCSI tape driver for GS/OS.
Server.Sys.File	Script to install System Software 6.0 on an AppleShare File Server.
Sounds.All	Script to install all sounds provided with System Software 6.0 into the "System:Sounds" folder of the designated volume.
StyleWriter	Script to install the StyleWriter printer driver for the Print Manager, as well as the files necessary to connect it to a serial port.
Teach	Script to install the application Teach, which displays and edits Teach files, text files, AppleWorks files, MacWrite files and Installer scripts.
UniDisk3.5	Script to install the UniDisk 3.5 driver for GS/OS.
VideoKeyboard	Script to install the Video Keyboard new desk accessory, which allows users to type by using the pointing device instead of the keyboard.
VideoMix	Script to install the latest versions of the Apple II VideoMix software and tools.

Contents of SystemTools1

Icons	Additional icons for the Finder. This folder is currently empty.
System	A directory containing additional parts of the system software.
Finder	The Apple IIGS Finder, version 6.0.
CDevs	Directory with additional Control Panel Devices.
DirectConnect	Allows selection of direct-connected printers.
Keyboard	Sets keyboard parameters.
Modem	Controls modem port settings.
Monitor	Sets 40-column or 80-column mode, monochrome or color mode, and the color of text, text background, and borders.
Printer	Controls printer port settings.
Slots	Allows selection of slot settings and startup slot.
Sound	Sets user preference for sound pitch and volume. Also allows the user to assign digitized sounds to events that happen while using the computer.
Time	Sets the internal clock's time and display format and optionally tracks Daylight Savings Time.
Desk.Accs	Directory with additional desk accessories.
CDRemote	An updated version of the CD Remote new desk accessory which ships with the AppleCD SC.
FindFile	A new desk accessory that finds files on volumes GS/OS can read.
Calculator	A calculator new desk accessory.
Drivers	Directory with additional device drivers for GS/OS and the Toolbox.

	A2.RAMCard	The GS/OS driver for slot-based memory expansion cards. This driver is not required to use these cards with GS/OS, but it does provide a substantial speed improvement.
	Apple.MIDI Card6850.MIDI	The Apple MIDI Interface driver for the MIDI Tools. The driver for 6850-based MIDI interface cards for the MIDI Tools.
	Epson ImageWriter ImageWriter.LQ	The Epson® printer driver for the Print Manager. The ImageWriter driver for the Print Manager. The ImageWriter LQ driver for the Print Manager. Starting with System Software 5.0.3, this driver uses all the capabilities of the ImageWriter LQ.
	Modem Parallel.Card	The modem port driver for the Print Manager. A driver for some parallel printer interface cards for the Print Manager. This driver works with the Apple Parallel Interface Card, as well as several other parallel interface cards.
	Printer SCSI.Manager	The printer port driver for the Print Manager. The GS/OS SCSI Manager, the supervisory driver that arbitrates hardware-level usage of Apple's Apple II SCSI cards.
	SCSICD.Driver	The GS/OS driver for the AppleCD SC drive. This driver is required for GS/OS to recognize CD-ROM drives.
	SCSIScan.Driver	The GS/OS driver for the Apple Scanner or OneScanner. This driver is required for GS/OS to recognize Apple's scanners.
	SCSITape.Driver	The GS/OS driver for the Apple Tape Backup 40SC. This driver is required for GS/OS to recognize Apple's now-discontinued Tape Backup 40 SC.
Fonts	StyleWriter	The StyleWriter driver for the Print Manager.
		Directory with additional fonts
	Courier.09	9-point Courier font.
	Courier.10	10-point Courier font.
	Courier.12	12-point Courier font.
	Courier.14	14-point Courier font.
	Courier.18	18-point Courier font.
	Courier.20	20-point Courier font.
	Courier.24	24-point Courier font.
	Geneva.10	10-point Geneva font.
	Geneva.12	12-point Geneva font.
	Geneva.14	14-point Geneva font.
	Geneva.16	16-point Geneva font.
	Geneva.18	18-point Geneva font.
	Geneva.20	20-point Geneva font.
	Geneva.24	24-point Geneva font.
	Helvetica.9	9-point Helvetica font.
	Helvetica.10	10-point Helvetica font.
	Helvetica.12	12-point Helvetica font.
	Helvetica.14	14-point Helvetica font.
	Helvetica.18	18-point Helvetica font.
	Helvetica.20	20-point Helvetica font.
	Helvetica.24	24-point Helvetica font.
	Shaston.16	16-point Shaston font.
	Times.09	9-point Times font.

	Times.10	10-point Times font.
	Times.12	12-point Times font.
	Times.14	14-point Times font.
	Times.18	18-point Times font.
	Times.20	20-point Times font.
	Times.24	24-point Times font.
	Venice.12	12-point Venice font.
	Venice.14	14-point Venice font.
	Venice.24	24-point Venice font.
FSTs		Directory with additional File System Translators.
	DOS.3.3.FST	The DOS 3.3 FST, which allows GS/OS to access 5.25" disks formatted in DOS 3.3 format. This FST is read-only; it only performs read operations.
	HS.FST	The High Sierra FST, which allows GS/OS to access CD-ROM discs formatted in the international standard High Sierra or ISO 9660 formats. This FST is read-only; it only performs read operations.
	HFS.FST	The HFS FST, which allows GS/OS to read and write any disk in the Macintosh's HFS format.
	Pascal.FST	The Apple II Pascal FST, which allows GS/OS to access any disk formatted in Apple II Pascal format. This FST is read-only; it only performs read operations.
Tools		Directory with additional tools.
	Tool025	Note Synthesizer.
	Tool026	Note Sequencer.
	Tool029	ACE Tools.
	Tool032	MIDI Tools.
Adv.Disk.Util		The Advanced Disk Utility program which allows for partitioning of SCSI hard disks, as well as erasing, initializing, and zeroing volumes or partitions.
BASIC.System		The ProDOS 8 BASIC command interpreter.

Contents of SystemTools2

Icons		Additional icons for the Finder. This folder is currently empty.
AppleTalk		This directory contains additional AppleTalk files and utilities for AppleShare and AppleTalk.
	Boot.Driver	A driver for AppleShare that GS/OS loads before the other drivers are loaded and which remains resident in memory after the boot process is finished. Installed on servers by the Installer script Server.Sys.File.
	Display.0	An update to the Aristotle program installed by the "Aristotle.Patch" script.
	QuickLogoff	An initialization file used to add a quick logoff feature to AppleShare.
	Start	The AppleShare startup program which is installed instead of the standard Start program on AppleShare volumes. It allows the user to log on and then launches the server startup program for the user's machine.

System	A directory containing additional parts of the system software.
CDevs	Directory with additional Control Panel Devices.
AppleShare	Allows users to choose and log onto AppleShare file servers.
FolderPriv	Allows users to set default folder privileges on AppleShare file server volumes.
MediaControl	Allows users to set up the Media Control tool set and the drivers they wish to use.
Namer	Allows users to rename AppleTalk-based ImageWriter, ImageWriter LQ and LaserWriter printers.
NetPrinter	Allows users to choose AppleTalk-based ImageWriter, ImageWriter LQ and LaserWriter printers.
Desk.Accs	Directory with additional desk accessories.
MediaControl	A new desk accessory that's like a "super" remote control for all devices the Media Control toolset can control.
VideoKeyboard	A new desk accessory that allows users to type with the pointing device instead of with the keyboard.
VideoMix	An updated version of the VideoMix new desk accessory which ships with the Apple II Video Overlay Card.
Drivers	Directory with additional device drivers for GS/OS and the Toolbox.
AppleTalk	The AppleTalk port driver for the Print Manager. It works with either serial port when configured for AppleTalk.
ATalk	The main AppleTalk GS/OS driver.
ATP1.ATROM	AppleTalk protocols to patch the IIGS ROM.
ATP2.ATRAM	AppleTalk protocols not in ROM.
IWEM	PostScript® program which allows a LaserWriter emulate an ImageWriter. A user can load it into the LaserWriter with the LaserWriter Control Panel, and it is automatically invoked when printing through the slot associated with AppleTalk.
LaserWriter	The LaserWriter driver for the Print Manager. This driver works with any LaserWriter with PostScript. It does not work with the LaserWriter IIGS or Personal LaserWriter LS. This driver doesn't always print color patterns correctly to PostScript Level 2 printers, such as the LaserWriter IIfx, LaserWriter IIGS or Personal LaserWriter NTR.
Media.Control	Drivers for the Media Control toolset
AppleCDSC	Media Control driver for the Apple CD SC drive.
Pioneer2000	Media Control driver for the Pioneer 2000 series of laserdisc players.
Pioneer4000	Media Control driver for the Pioneer 4000 series of laserdisc players.
SCC.Manager	The GS/OS supervisory driver that arbitrates hardware-level usage of the serial communications controller in the Apple IIGS.

Fonts	Directory with additional fonts. Currently, this directory on this disk is empty.
FSTs	Directory with additional file system translators.
AppleShare.FST	The AppleShare FST which allows GS/OS to access AppleShare file servers.
Sounds	A folder with sounds provided for the new Sound Control Panel. The file names are fairly self-explanatory; the sounds are not described here.
Ahh	
Doorbell	
Droplet	
Eastern	
Frog	
PipeOrgan	
Quack	
SimpleBeep	
Sosumi	
Swish	
Trumpets	
Whoosh	
System.Setup	Directory with additional initialization files.
AppleIIVOC.INIT	An initialization file used by the Apple IIGS Video Overlay Card tool set.
ATInit	The AppleTalk initialization file.
ATResponder	The AppleTalk Responder, used for AppleTalk network management.
CloseView	A new desk accessory (installed by an init) that magnifies the screen to make it more visible to some users with visual impairments.
EasyAccess	An initialization file that brings Sticky Keys and Keyboard Mouse to ROM 1 users.
EasyMount	An initialization file that creates file server aliases in the Finder.
Tools	Directory with additional tools.
Tool033	VideoMix toolset (for the Video Overlay Card).
Tool038	Media Control toolset.
Archiver	A GS/OS based backup and restore program.
Teach	A simple editor that uses TextEdit to display and edit text files, Teach files, Installer scripts and AppleWorks and MacWrite documents.
Read.Me	Last-minute news and information about the System Software. Read with Teach.
Shortcuts	A Teach file with time-saving system tips and information.

Contents of Fonts

Goodies	A directory with files that are only related to system software in the vaguest sense.
Apple.Bowl	A GS/OS conversion of an old Apple II bowling game.
Read.Me	Documentation on Apple Bowl.
Icons	Additional icons for the Finder.
AppleBowl.Icon	The icon for the Apple Bowl game.
System	A directory containing additional parts of the system software.
Fonts	Additional fonts.
Courier.27	27-point Courier font.
Courier.28	28-point Courier font.
Courier.30	30-point Courier font.
Courier.36	36-point Courier font.
Courier.42	42-point Courier font.
Helvetica.27	27-point Helvetica font.
Helvetica.28	28-point Helvetica font.
Helvetica.30	30-point Helvetica font.
Helvetica.36	36-point Helvetica font.
Helvetica.42	42-point Helvetica font.
Helvetica.48	48-point Helvetica font.
Helvetica.60	60-point Helvetica font.
Helvetica.72	72-point Helvetica font.
Helvetica.96	96-point Helvetica font.
Times.27	27-point Times font.
Times.28	28-point Times font.
Times.30	30-point Times font.
Times.36	36-point Times font.
Times.42	42-point Times font.
Times.48	48-point Times font.
Times.60	60-point Times font.
Times.72	72-point Times font.
Times.96	96-point Times font.

Contents of synthLAB

synthLAB	The synthLAB application, a demonstration sequencer for the MIDI Synth toolset.
Tool035	MIDI Synth toolset.
MIDI	The MIDI Control Panel. Lets you choose a MIDI driver.
Seq.and.Instr	A directory containing demonstration sequences (files that end in “.seq”), wave forms (files that end in “.wav”) and sound banks (files that end in “.bnk”) for use with synthLAB and MIDI Synth. The files are only listed; their sound is not described here.
Synth.bnk	
Synth.seq	
Synth.wav	
Bee.seq	

Capri.seq
Combo.bnk
Combo.wav
Demo.bnk
Demo.wav
Fugue.seq
Midsummer.seq
Orch.bnk
Orch.wav
Piano.bnk
Piano.wav
Rhythm.seq
Sonata.seq

Reference

A Teach document with the electronic manual for synthLAB.

Contents of System.Disk

Files are only listed here; they are described earlier in this Note where they first appeared.

ProDOS

System

Start.GS.OS
GS.OS
Error.Msg
GS.OS.Dev
FSTs
 Pro.FST
 Char.FST
Drivers
 AppleDisk3.5
 AppleDisk5.25
 Console.Driver
System.Setup
 Tool.Setup
 TS2
 TS3
 Resource.Mgr
 Sys.Resources
Desk.Accs
 ControlPanel
CDevs
 Printer
 Time
 Start
Tools
 Tool014
 Tool015
 Tool016
 Tool018
 Tool019
 Tool020
 Tool021

This is the Finder, not the SetStart program or the AppleShare program.

Tool022
Tool023
Tool025
Tool027
Tool028
Tool034
Fonts
P8
Icons
Ftype.Apple
BASIC.System

Minimum GS/OS System Disk Requirements

The following files are required for GS/OS to boot from a local disk. This list does not address files needed by the Finder or the IIGS Toolbox. Those files only required in certain circumstances are noted as such. Those files that may be excluded **only** when disk space or memory limitations make it **absolutely** necessary are marked with asterisks (*).

ProDOS System

Start.GS.OS
GS.OS
GS.OS.Dev
Error.Msg
FSTs

Pro.FST

*HS.FST

Required for High Sierra or ISO 9660 discs.

Char.FST

*AppleShare.FST

Required to use AppleShare file servers

*DOS3.3.FST

Required to use DOS 3.3 disks

*Pascal.FST

Required to use Apple II Pascal disks

*HFS.FST

Required to use HFS disks

Drivers

*AppleDisk3.5

Required for Apple 3.5 Drives or SuperDrives.

*AppleDisk5.25

Required for 5.25" drives.

*UniDisk3.5

Required for UniDisk 3.5 drives.

*SCSI.Manager

Required for SCSI devices.

*SCSIHD.Driver

Required for SCSI hard disks.

*SCSICD.Driver

Required for AppleCD SC drives.

*SCSIScan.Driver

Required for Apple scanners.

*SCSITape.Driver

Required for Apple Tape backup.

Console.Driver

*ATalk

Required for AppleTalk (including AppleShare).

*ATP1.ATROM

Required for AppleTalk (including AppleShare).

*ATP2.ATRAM

Required for AppleTalk (including AppleShare).

*SCC.Manager

Required for AppleTalk (including AppleShare).

System.Setup

Tool.Setup

TS2

TS3

Resource.Mgr

Sys.Resources

CDevs		
	*AppleShare	Required for selecting AppleShare file servers.
	*NetPrinter	Required for choosing printers.
	*DirectConnect	Required for choosing printers.
	*General	
	*RAM	Should always be included if space allows. Provides the only way to set the size of the GS/OS Disk Cache.
Desk.Accs		Required for desk accessories; any desk accessories should be installed in this directory.
	*ControlPanel	Required if you ship any Control Panels (CDevs).
	*Start	Must be present for GS/OS to boot or some other file that GS/OS can boot into must be present in its place.
Tools		Required for any of the RAM-based tools; any RAM-based tools should be installed in this directory.
Fonts		Required for the Font Manager.
	*FastFont	This makes Shaston 8 text drawing much faster and should be included unless absolutely impossible.
	*P8	Required for ProDOS 8.
*BASIC.System		Required for AppleSoft BASIC.

Further Reference

- *GS/OS Reference*
- Apple IIGS Technical Note #100, VersionVille

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