Apple II Technical Notes



Developer Technical Support

GS/OS

#1: Contents of System Software Distribution Disks

Revised:

Revised by: Matt Deatherage

Written by: Matt Deatherage

July 2015

June 1992

November 1988

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 June 1992: Now describes System Software 6.0.3.

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 6.0.3 package. This package includes six 3.5" disks (Install, SystemTools1, SystemTools2, Fonts, synthLAB and System.Disk), or a single-disk Live.Install. System Software 6.0.3 requires at least 1 MB of memory, and either one 3.5" drive and another storage device, or a storage interface such as the CFFA3000 or SPVHD capable of mounting multiple disk images or partitions. 2 MB of memory and a hard disk or other internal mass storage 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 6.0.3 set, they are only listed and not described a second time.

Contents of Live.Install

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.

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.

Archiver BASIC.System CLOCK.PATCH

Developers

Installer

Scripts

Install

Goodies

Apple.Bowl

Read.Me

Icons

FType.Apple

Installer

MIDI

ProDOS

Read.Me

Reference

Scripts

A2.RAMCard

Adv.Disk.Util Apple.Bowl

Apple.MIDI

AppleDisk5.25

AppleShare AppleShare3.5

Archiver

Aristotle.Patch

A GS/OS based backup and restore program. The ProDOS 8 BASIC command interpreter

An AppleSoft BASIC application that will patch the ProDOS 8 ThunderClock driver to handle a new span of years.

This directory contains the customized Installer and script for the use of software developers.

The customized Installer application for software developers.

Home to the customized Installer's Install script. The customized Install script for developers.

A directory with files that are only related to system software in the vaguest sense.

A GS/OS conversion of an old Apple II bowling

Documentation on Apple Bowl.

The directory containing all the Finder's old-style icon files as well as new Desktop database files and file type descriptors.

The file type names used by the Finder (on all

systems).

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.

The MIDI Control Panel. Lets you choose a MIDI

driver.

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.

Last-minute news and information about the System

Software. Read with Teach.

A Teach document with the electronic manual for

synthLAB.

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.

Script to install the driver for the Apple II Memory Expansion Card (the slot-based, or "slinky" card). Script to install the Advanced Disk Utility program.

Script to install the Apple Bowl game.

Script to install the Apple MIDI Interface driver and tool set.

Script to install the 5.25" disk driver for GS/OS.

Script to install AppleShare. Script that creates an 800K or 1440K GS/OS startup

disk which contains AppleShare.

Script to install Archiver, the new GS/OS-based

backup program.

Script to install a change to Aristotle for easier class

transition.

Epson

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 Calculator new desk accessory.

Script to install the 6850-based MIDI Interface card

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.

Script to install the Epson printer driver for the Print

Manager, as well as the parallel card driver.

FindFile Script to install the FindFile NDA, which finds files

on volumes GS/OS can read.

Fonts Script to install the minimum suggested font set.

Fonts.Max Script to install all fonts provided with System 6.0.3.

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 6.0.3 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 6.0.3

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 6.0.3.

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.P4200 Script to install the Media Control toolset and the

drivers to work with the Pioneer 4200 series

laserdisc players.

MSDOS.FST Script to install the read-only MS-DOS file system

translator.

Namer Script to install the printer Namer Control Panel.

Namer II (a ProDOS 8 application) is not included

with System 6.0.3.

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.

RAM5 Script to install the RAM5 disk driver.

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 6.0.3 on an

AppleShare File Server.

Sounds.All Script to install all sounds provided with System

Software 6.0.3 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.

synthLAB Script to install the application synthLAB, which

plays synthesized music files, and a set of sample

sequences and instruments.

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.

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.

Svnth.bnk

Synth.seq

Synth.wav

Bee.seq

Capri.seq

Combo.bnk

Combo.way

Demo.bnk

Demo.way

CDevs

Fugue.seq Midsummer.seq Orch.bnk Orch.wav Piano.bnk Piano.wav Rhythm.seq Sonata.seq

Shortcuts A Teach file with time-saving system tips and

information.

synthLAB The synthLAB application, a demonstration se-

quencer for the MIDI Synth toolset.

System The directory containing most of the GS/OS files.

The directory containing a set of Apple IIGS Control Panel Devices (CDevs) useful in the Live.Install

environment.

AppleShare Allows users to choose and log onto AppleShare file

servers

DirectConnect Allows selection of direct-connected printers.

FolderPriv Allows users to set default folder privileges on

AppleShare file server volumes.

General Allows setting of general system parameters.

Keyboard Sets keyboard parameters.

MediaControl Allows users to set up the Media Control tool set and

the drivers they wish to use.

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.

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

orinters.

Printer Controls printer port settings.

RAM Controls the size of the RAM disk and the GS/OS

Disk Cache.

SetStart Lets you choose which application to boot into.

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 The directory containing all the classic and new desk

accessory files to be loaded at boot time.

Calculator A calculator new desk accessory.

CDRemote An updated version of the CD Remote new desk

accessory which ships with the AppleCD SC.

ControlPanel The New Desk Accessory which allows users to

control almost all system parameters and choose

printers and file servers.

FindFile A new desk accessory that finds files on volumes

GS/OS can read.

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

Drivers The directory containing all device drivers needed by

GS/OS and the Toolbox (including the Print Manager

and MIDI Tools).

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 The Apple MIDI Interface driver for the 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.

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.

Card6850.MIDI The driver for 6850-based MIDI interface cards for

the MIDI Tools.

Console.Driver The text screen and keyboard device driver for

GS/OS.

Epson The Epson® printer driver for the Print Manager. ImageWriter The ImageWriter driver for the Print Manager.

ImageWriter.LQ 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.

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 IISC or Personal LaserWriter LS. This driver doesn't always print color patterns correctly to PostScript Level 2 printers, such as the LaserWriter IIf,

LaserWriter IIg 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
Modem Parallel.Card	laserdisc players. 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
Printer RAM5	parallel interface cards. The printer port driver for the Print Manager. The GS/OS driver for a RAM disk using system memory.
SCC.Manager	The GS/OS supervisory driver that arbitrates hardware-level usage of the serial communications
SCSI.Manager	controller in the Apple IIGS. 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.
SCSIHD.Driver	The GS/OS driver for SCSI hard disks. This driver is required for GS/OS to recognize SCSI hard disks.
SCSIScan.Driver	The GS/OS driver for the Apple Scanner or OneScanner. This driver is required for GS/OS to
SCSITape.Driver	recognize Apple's scanners. 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.
StyleWriter UniDisk3.5	The StyleWriter driver for the Print Manager. 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
Error.Msg	this driver eventually corrupts media. 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.
Finder	The Apple IIGS Finder, version 6.0.3.
FinderExtras	Directory to contain extensions to the Finder's
Fonts	functionality. The directory containing all system fonts to be used.
Courier.09	9-point Courier font.
Courier.10	10-point Courier font.
Courier.12	12-point Courier font.
Courier.14 Courier.18	14-point Courier font.
Courier.20	18-point Courier font. 20-point Courier font.
Courier.24	24-point Courier font.
Courier.27	27-point Courier font.
Courier.28	28-point Courier font.
Courier.30 Courier.36	30-point Courier font. 36-point Courier font.
Courier.42	42-point Courier font.
FastFont	This makes Shaston 8 text drawing much faster.
Font.Lists	A file used internally by Font Manager to track
Geneva.10	installed fonts. 10-point Geneva font.

C 12	10
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.
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.
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.
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.
Venice.12	12-point Venice font.
Venice.14	14-point Venice font.
Venice.24	24-point Venice font.
,	The directory containing the file system translators to
	be loaded at boot time.
AppleShare.FST	The AppleShare FST which allows GS/OS to access
rippiesitare.i s i	AppleShare file servers.
Char.FST	The character device FST.
DOS.3.3.FST	The DOS 3.3 FST, which allows GS/OS to access
DOS.3.3.131	5.25" disks formatted in DOS 3.3 format. This FST
HEC ECT	is read-only; it only performs read operations.
HFS.FST	The HFS FST, which allows GS/OS to read and
HC ECT	write any disk in the Macintosh's HFS format.
HS.FST	The High Sierra FST, which allows GS/OS to access
	CD-ROM discs formatted in the international

FSTs

MSDOS.FST

Pascal.FST

Pro.FST

GS.OS GS.OS.Dev

P8 Sounds

> Ahh Doorbell Droplet Eastern Frog PipeOrgan Ouack SimpleBeep Sosumi Swish **Trumpets** Whoosh

Start

Start.GS.OS

System.Setup

AppleIIVOC

ATInit

ATResponder

CloseView

EasyAccess

EasyMount

Resource.Mgr

standard High Sierra or ISO 9660 formats. FST is read-only; it only performs read operations.

The MS-DOS FST, which allows GS/OS to access any disk formatted in the MS-DOS's FAT12 format. This FST is read-only; it only performs read operations.

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.

The ProDOS FST.

The remainder of GS/OS.

The GS/OS Device Manager and associated core routines. Separate from GS.OS for speed reasons.

The ProDOS 8 operating system.

A folder with sounds provided for the new Sound Control Panel. The file names are fairly selfexplanatory; the sounds are not described here.

The boot program. If this file exists, GS/OS always launches it upon booting. Under 6.0.3, this program usually reads the SetStart.data file and launches the

indicated application.

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.

The directory containing all the initialization files to be executed at boot time.

An initialization file used by the Apple IIGS Video

Overlay Card tool set.

The AppleTalk initialization file.

The AppleTalk Responder, used for AppleTalk

network management.

A new desk accessory (installed by an init) that magnifies the screen to make it more visible to some

users with visual impairments.

An initialization file that brings Sticky Keys and

Keyboard Mouse to ROM 1 users.

An initialization file that creates file server aliases in

the Finder.

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
	Sys.Resources	present. A file containing system resources, available to the
	Tool.Setup	system software and to applications. 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
	TS2	3. Patches to ROM tools for ROM 1.
	TS3	Patches to ROM tools for ROM 3.
Tools	103	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.
	Tool025	Note Synthesizer.
	Tool026	Note Sequencer.
	Tool027	Font Manager.
	Tool028	List Manager.
	Tool029	ACE Tools.
	Tool032	MIDI Tools.
	Tool033	VideoMix toolset (for the Video Overlay Card).
	Tool034	TextEdit.
	Tool038	Media Control toolset.
Teach		A simple editor that uses TextEdit to display and edit text files, Teach files, Installer scripts and
Tool035		AppleWorks and MacWrite documents. MIDI Synth toolset.
Wharts.New		A Teach file that describes the new features in System Software 6.0.3.

Contents of Install

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

Icons

FType.Apple

Installer

ProDOS

Scripts

A2.RAMCard

Adv.Disk.Util

Apple.Bowl

Apple.MIDI

AppleDisk5.25

AppleShare

AppleShare3.5

Archiver

Aristotle.Patch

ATImageWriter

ATImageWriterLQ

Calculator

Card6850.MIDI

CDROM

CloseView

DCImageWriter

DCImageWriterLQ

DOS3.3.FST

Easy.Access

Epson

FindFile

Fonts

Fonts.Max

Fonts.Std

HFS.FST

Inst.Sys.Min

Inst.Sys.NoFin

Instal.Sys.File

LaserWriter

Local.Net.Boot

MediaControl

MediaCtrl.CDSC

MediaCtrl.P2000

MediaCtrl.P4200

MSDOS.FST

Namer

Pascal.FST

Quick.Logoff

RAM5

SCSI.Hard.Disk

SCSI.Scanner

SCSI.Tape

Server.Sys.File

Sounds.All

StyleWriter

```
synthLAB
      Teach
      UniDisk3.5
      VideoKeyboard
      VideoMix
System
      CDevs
             General
             RAM
             SetStart
      Desk.Accs
             ControlPanel
      Drivers
             AppleDisk3.5
             AppleDisk5.25
             Console.Driver
             SCSI.Manager
             SCSIHD.Manager
             UniDisk3.5
      Error.Msg
      Fonts
             FastFont
             Font.Lists
      FSTs
             Char.FST
             Pro.FST
      GS.OS
      GS.OS.Dev
      SetStart.data
      Start
      Start.GS.OS
      System.Setup
             Resource.Mgr
             Sys.Resources
             Tool.Setup
             TS2
             TS3
      Tools
             Tool014
             Tool015
             Tool016
             Tool018
             Tool019
             Tool020
             Tool021
             Tool022
             Tool023
             Tool027
             Tool028
```

Tool034

Contents of SystemTools1

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

```
Adv.Disk.Util
Icons
System
      CDevs
             DirectConnect
             Keyboard
             Modem
             Monitor
             Printer
             Slots
             Sound
             Time
      Desk.Accs
             Calculator
             CDRemote
             FindFile
      Drivers
             A2.RAMCard
             Apple.Midi
             Card6850.MIDI
             Epson
             ImageWriter
             ImageWriter.LQ
             Modem
             Parallel.Card
             Printer
             RAM5
             SCSI.Manager
             SCSICD.Driver
             SCSiScan.Driver
             SCSITape.Driver
             StyleWriter
      Finder
      Fonts
             Courier.09
             Courier.10
             Courier.12
             Courier.14
             Courier.18
             Courier.20
             Courier.24
             Geneva.10
             Geneva.12
             Geneva.14
             Geneva.16
             Geneva.18
             Geneva.20
             Geneva.24
             Helvetica.09
```

Helvetica.10

Helvetica.12 Helvetica.14 Helvetica.18 Helvetica.20 Helvetica.24 Shaston.16 Times.09 Times.10 Times.12 Times.14 Times.18 Times.20 Times.24 Venice.12 Venice.14 Venice.24 **FSTs** DOS3.3.FST HFS.FST **HS.FST** MSDOS.FST Pascal.FST **Tools** Tool025 Tool026 Tool029

Tool032

GS/OS

Contents of SystemTools2

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

```
AppleTalk
      Boot.Driver
      Display.0
      QuickLogoff
      Start
Archiver
CLOCK.PATCH
Icons
Read.Me
Shortcuts
System
      CDevs
             AppleShare
             FolderPriv
             MediaControl
             Namer
             NetPrinter
             Network
      Desk.Accs
             MediaControl
             VideoKeyboard
             VideoMiz
      Drivers
             AppleTalk
             ATalk
             ATP1.ATROM
             ATP2.ATRAM
             IWEM
             LaserWriter
             Media.Control
                   AppleCDSC
                   Pioneer2000
                   Pioneer4200
             SCC.Manager
      Fonts
      FSTs
             AppleShare.FST
      Sounds
             Ahh
             Doorbell
             Droplet
             Eastern
             Frog
             PipeOrgan
             Quack
             SimpleBeep
             Sosumi
             Swish
             Trumpets
             Whoosh
```

System.Setup
AppleIIVOC
ATInit
ATResponder
CloseView
EasyAccess

EasyMount

Tools

Tool033

Tool038

Teach

Whats.New

Contents of Fonts

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

Goodies

Apple.Bowl Read.Me

Icons

AppleBowl.Icon

System

Fonts

Courier.27

Courier.28

Courier.30

Courier.36

Courier.42

Helvetica.27

Helvetica.28

Helvetica.30

Helvetica.36

Helvetica.42

Helvetica.48

Helvetica.60

Helvetica.72

Helvetica.96

Times.27

Times.28

Times.30

Times.36

Times.42

Times.48

Times.60

Times.72

Times.96

Contents of synthLAB

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

BASIC.System **Icons** SL.Icons **MIDI** Reference Seq.and.Instr 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

synthLAB Tool035

Contents of System.Disk

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

```
BASIC.System
Icons
      Ftype.Apple
System
      CDevs
             Printer
             Time
      Desk.Accs
             ControlPanel
      Drivers
             AppleDisk3.5
             AppleDisk5.25
             Console.Driver
      Error.Msg
      Fonts
      FSTs
             Char.FST
             Pro.FST
      GS.OS
      GS.OS.Dev
      P8
      Start
                    This is the Finder, not the SetStart program or the AppleShare program.
      Start.GS.OS
      System.Setup
             Resource.Mgr
             Sys.Resources
             Tool.Setup
             TS2
             TS3
      Tools
             Tool014
             Tool015
             Tool016
             Tool018
             Tool019
             Tool020
             Tool021
             Tool022
             Tool023
             Tool025
             Tool027
             Tool028
             Tool034
```

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
                                          Required to use DOS 3.3 disks
              *DOS3.3.FST
              *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.
                                          Required for 5.25" drives.
              *AppleDisk5.25
              *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.
                                          Required for Apple Tape backup.
              *SCSITape.Driver
              Console.Driver
              *ATalk
                                          Required for AppleTalk (including AppleShare).
                                          Required for AppleTalk (including AppleShare).
              *ATP1.ATROM
                                          Required for AppleTalk (including AppleShare).
              *ATP2.ATRAM
              *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.
```

Developer Te	chnical	Support
--------------	---------	---------

July 2015

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

Epson is a registered trademark of Seiko Epson Corporation.

PostScript is a registered trademark of Adobe Systems, Incorporated.