

How to Install Mac OS 8 (D11E4):
Last revision 6/13/96

Please read these instructions carefully before installing Mac OS 8.

Warning: This is a Pre-Release operating system. BACK UP all information on all drives connected to a machine on which you plan to run Mac OS 8. You may experience disk corruption and data loss on this release.

You currently need two machines to boot Mac OS 8: one is a machine from the "Hardware Supported" list below, the other is a machine capable of running the Power Macintosh Debugger. The two machines must be connected via a serial cable. See "Debugger Instructions" below.

Note: Before installation, place a text file called "No Mac OS 8 Mount" on any drives that you don't want to have mounted while in Mac OS 8.

Late-Breaking News:

DO NOT click the "Setup" button when creating a desktop printer. Here are the steps to create a desktop printer in D11E4:

- 0) Before installing, remove any existing desktop printers
- 1) Click on the LaserWriter GX icon
==>You'll see a few benign asserts
- 2) Click on the printer of your choice
- 3) Click the "Create" button
- 4) When the "Setup" dialog comes up, hit CANCEL (this is the most important step).
- 5) You'll have to reboot for a desktop printer to show up correctly
- 6) Go print!

See the Printing release notes for more information.

Installation Instructions:

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- 1) Initialize a 250MB or larger drive using Drive Setup (see "Drive Setup Instructions" below), or another utility. We'll call this freshly initialized drive the "Mac OS 8 volume"
 - 2) Install (do not copy) a fresh System 7.5.x onto the Mac OS 8 volume
 - 3) Run the Mac OS 8 Installer script "Install Mac OS"; install onto the Mac OS 8 volume
 - 4) Set your startup disk to be the Mac OS 8 volume
 - 5) Put down the Caps Lock key
 - 6) Restart
==> You should boot into Mac OS 8

Drive Setup Instructions:

You should be able to install Mac OS 8 on a drive initialized by any software. We recommend using Drive Setup 2.0d5c2 which is included with the D11E4 build.

- 1) In the Drive Setup window, select your Mac OS 8 volume.
- 2) Click Initialize. You get the Initialize dialog: "Initializing will destroy all data...".
- 3) Click Custom Setup...in the Initialize dialog.

- 4) Select a Partitioning Scheme of 1 Macintosh HFS.
- 5) Click OK to go back to the Initialize dialog. In the lower status field, it should say:
"New Partitioning: 1 Macintosh HFS
Initialization Options: none"
- 6) Click Initialize.

Debugger Instructions:

To run Mac OS 8, you will need a debugging machine. This can be any Macintosh capable of running the Power Mac debugger connected to the Mac OS 8 machine via a serial cable. It does not have to be a PowerPC machine, any Macintosh with 7MB free RAM (Virtual Memory is OK) is sufficient.

There is currently no reliable way to run Mac OS 8 without the debugger at this time; however, you should be able to boot to Finder in most cases without a debugging machine connected.

The latest version of the Power Macintosh Debugger is 2.1d13.

The debugger should be set to Remote Host, and the Modem port. The serial cable needs to be in the modem port on the Mac OS 8 machine, and in either the modem or the printer port on the debugger machine. You can tell the debugger to always use either the modem or the printer port by setting "Target Preferences" under the Edit menu. Make sure that you aren't using the port for something else (such as a real modem, or AppleTalk).

When the debugger comes up, it asks you "Open which symbolics file?" You can hit cancel at this point and load .xSYM files later. If you don't have access to .xSYM files, you can still do assembly language debugging. To keep this dialog from appearing, choose "General Preferences..." from the Edit menu and deselect "Show open dialog at startup" in the "Other" section.

If you aren't interested in DebugStrs, you can keep the debugger from stopping for each DebugStr by choosing "Show Process Browser" from the Views menu. For each process where you want to disable DebugStrs, click to deselect the "Stop on DebugStr()" and "Stop on Debugger()" checkboxes. To keep the debugger from ever stopping on DebugStrs for any process, go to General Preferences under the Edit Menu. Click to deselect the "Set stop on Debugger()/DebugStr() default" checkbox under the "Process Control" heading.

- o To enter the Power Mac debugger during startup, hold down the option key on the Mac OS 8 machine while it starts up.
- o To enter the Power Mac debugger while running Mac OS 8, type command-shift-6 on the Mac OS 8 machine.
- o To enter MacsBug, type command-shift-7 on the Mac OS 8 machine (Note: MacsBug can be found in Bleeding Edge folder, D11E1:D11E1 MacsBug).
- o To force an NMI (non-maskable interrupt) into the Kernel, type command-<Power Key> on the Mac OS 8 machine.

- o To reboot your Mac OS 8 machine, hold down command and control and press the power key.

Troubleshooting:

The Screen Saver is off by default. To enable it, create a file called "Enable Screen Saver" and place it at the root level of your Mac OS 8 drive.

Your hard disk must be 250MB or greater. This requirement is fixed for DR1. After DR1 we will reevaluate this limitation.

It should not matter from which volume you booted System 7.5.x when you perform the Mac OS 8 install. You may be booted from the Mac OS 8 volume or another. Make sure you set the startup disk to be the Mac OS 8 volume and put the caps lock key down when booting into Mac OS 8.

Sometimes if you look at the Mac OS 8 volume just after installing, you'll see a folder called "%GLURG%" and no "Mac OS Folder". This is because the installer uses that temporary name during installation. If you close and reopen the Mac OS 8 volume's window, you should see the "Mac OS Folder".

You do not need to choose the "Update for Mac OS 8" menu item in Drive Setup 2.0d5c2 if you have initialized your drive with Drive Setup 2.0d5c2.

Hardware Supported:

NuBus-based Macintoshes: 6100/60, 6100/60AV (no AV functionality), 6100/66, 6100/66 AV (no AV functionality), 6100/66 DOS (no DOS functionality), 7100/66, 7100/66 AV (no AV functionality), 7100/80, 7100/80 AV (no AV functionality), 8100/80, 8100/100, 8100/100 AV (no AV functionality), 8100/110

Nu-Bus-based Performas: 6110CD, 6112CD, 6115CD, 6117CD, 6118CD

PCI-based Macintoshes: 7200/70, 7200/90, 7500/100, 8500/120, 9500/120, 9500/132

All Apple keyboards and mice are now supported!

Drives formatted with Drive Setup (other initialization software may work; if you have trouble, try reinitializing with Drive Setup 1.0.4 or later).

For builds up to and including DR1, the installer is set to ensure you have System 7.5 or later on a hard disk 250MB or greater.

Monitors connected to either built-in video or a card set to 256 colors (8-bit) or Thousands (16-bit).

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