# PRESTO PPC

# Installation Instructions for Quadra 605, LC, and Performa 470 series; LC and Performa 570 and 580 series; and Quadra, LC, and Performa 630 series

Items Packaged with the Sonnet Presto PPC Processor Upgrade Card:

- Presto<sup>™</sup> PPC processor upgrade card
- Presto PPC LC diskette
  Powered by Sonnet label

# CPU Remover Tool System Software Compatibility

• Mac<sup>®</sup> OS 7.5-8.5.

## Presto PPC Installation Overview

# Please review these instructions thoroughly before beginning the installation of the Presto PPC processor upgrade card.

Installing the Sonnet<sup>™</sup> Presto PPC processor upgrade card involves several steps, depending on the configuration of your system and software:

- Step 1: Update System Software for the PowerPC Processor Reinstall your current system software (System 7.5–Mac OS 8.1) as a universal system installation. This will insure that all necessary PowerPC<sup>™</sup> files and resources will be present in your System Folder. The following Presto PPC installation instructions provide a basic overview for installing a universal system. Since the installation process varies for each version of the Mac OS, we recommend you consult your original system software installation manual for detailed instructions. Apple<sup>®</sup> also provides PDF versions of most of their installation manuals at their web site.
- Step 2: Install the Presto PPC processor upgrade card Install the Sonnet Presto PPC card into your computer as instructed in the following Presto PPC installation instructions.
- Step 3: Update Applications to PowerPC (recommended) To take full advantage of the PowerPC processor, you may need to reinstall or upgrade your applications as PowerPC native. For further upgrade instructions, refer to your applications' documentation or contact the software manufacturers.
- Step 4: Upgrade to Mac OS 8.5 (optional) If you wish to upgrade to Mac OS 8.5, a PowerPC processor must be present and running in your computer.

*Note:* We recommend you make a backup of important information on your hard drive prior to installing new hardware or software. When handling computer products, you must take care to prevent components from being damaged by static electricity. Avoid carpeted areas, handle cards only by their edges, and avoid touching connector traces and component pins.

# Updating the System Software for the PowerPC Processor

Before upgrading your 68040-based Macintosh with the Presto PPC, you will need to update your system software as a universal system to take advantage of the PowerPC processor.

The following instructions outline the **basic** procedure for a universal system installation. For detailed instructions, consult your original system software installation manual since individual cases vary.

- 1. Insert the appropriate System Installer diskette or CD into the floppy disk drive or CD-ROM drive, turn on your computer, and doubleclick on the Installer's icon.
- 2. Locate the option for selecting System Software, and depending on the version of the Mac OS you are installing, select 'System for any Macintosh' or 'Universal System for any supported computer.
- 3. After the installation is complete, restart your computer.
- 4. After the computer finishes booting, open the Control Panels Folder (located inside the System Folder) and open the 601 Processor Upgrade control panel. Select 'On' and close the control panel.
- 5. Insert the Presto PPC LC diskette into the floppy disk drive. Double-click on the disk to open it. Select and drag Metronome from the floppy diskette onto the hard drive. After Metronome finishes copying to the hard drive, you may place it into the Apple Menu Items Folder (located inside the System Folder) for future convenience.

Metronome is a software utility that provides information about the new processor card once the upgrade has been completed.

6. Shut down your computer.



Software updates are available from the Sonnet web site at www.sonnettech.com. Sonnet Technologies Customer Service hours are Monday-Friday, 8am-5pm Pacific Time Customer Service Phone: I-949-472-2722 • E-mail: support@sonnettech.com

Sonnet Technologies, Inc., 15 Whatney, Irvine, California 92618-2808 USA • Tel: 1-949-587-3500 • Fax: 1-949-457-6350

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# Installing the Presto PPC – Quadra 605, LC, and Performa 470 Series

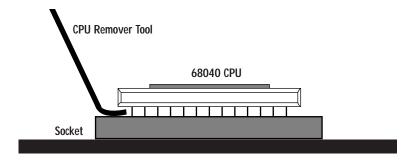
#### Note: European LC 475 Owners

Some European LC 475 machines require a replacement power supply in order to reliably use the Presto PPC. To check your power supply:

- 1. Remove the power cord and the case cover.
- 2. Locate the power supply on the right hand side of the machine.
- **3.** A specifications label should be visible on its top. The output for the unit at +5V (volts) should be 3.75A (amps) or greater.

If your power supply needs to be upgraded, contact an Apple service provider for a replacement. Once you have replaced the power supply, or have verified that it is the correct model, you may proceed with the installation.

- 1. The Presto PPC installs into the motherboard's CPU socket. For this reason, the Macintosh's original 68040 CPU must be removed using the CPU remover tool (CRT) packaged with the Presto PPC card.
- 2. Locate the 68040 CPU in the center portion of the machine.
- 3. Locate the PDS slot. If there is a PDS card already installed, remove it.
- 4. Insert the CRT between the 68040 CPU and the CPU socket. Lift the CPU out of the socket by slowly moving around the perimeter of the chip while gently pushing downward. Carefully remove the CPU from the socket, making sure not to bend any of the pins on the bottom of the chip and set it aside. You will install it onto the Presto PPC card in a later step.
- 5. Remove the Presto PPC processor upgrade card from the anti-static package, making sure to handle the card by the edges.

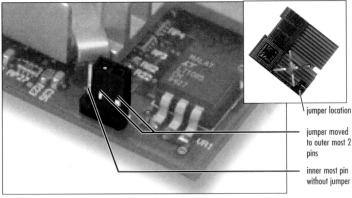


## **Preparing the Presto PPC Card**

#### 100 MHz Presto PPC only

You will need to move the clock jumper in order to have the card run at the appropriate clock speed.

• Move the jumper shown below, from the top two pins to the bottom two pins.

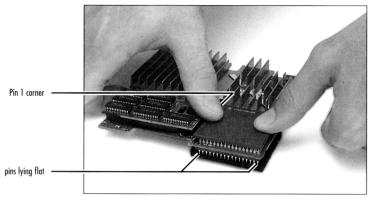


Moving the jumper on the Presto PPC Card

If the jumper is too stiff to remove by pulling, slide a fingernail under the jumper and carefully pry up on the plastic portion of the jumper.

## **Installing the Presto PPC Card**

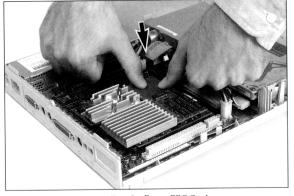
 Hold the Presto PPC card so that the pins on its underside are lying against a flat non-metallic surface. Align the 68040 CPU that was removed from the motherboard over the socket on the Presto PPC card, being sure that pin 1 on the CPU (denoted by ) mark on the top of the 68040 CPU) aligns with pin 1 on the socket (located near the innermost part of the Presto PPC card). Press over the center of the CPU and then repeat around the edges to ensure that it is fully and evenly seated.



Installing the 68040 onto the Presto PPC Card

2. Remove the protective foam from the Presto PPC card's pins and orient the Presto PPC card over the motherboard CPU socket as shown below. Be sure that the pins on the Presto PPC card align with the socket on the motherboard and then press down firmly over the CPU until it is fully seated.

Note: To properly align the **Presto PPC Card**'s pins over the motherboard CPU socket, your viewing angle should be from the far side of this photograph as shown.



Installing the Presto PPC Card

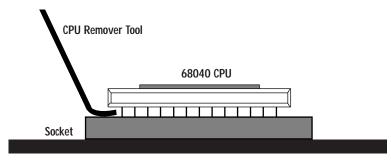
3. Replace the case cover and reattach all the cables you removed.

**Note:** If you would like to upgrade to Mac OS 8.5 please refer to the Presto PPC software installation instructions that are included. The Presto PPC LC diskette will also be required for this upgrade.

4

# Installing the Presto PPC – LC and Performa 570 and 580 Series

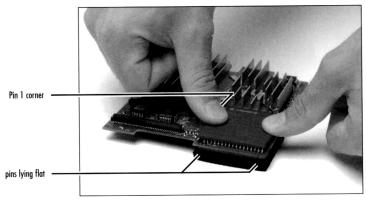
- 1. The Presto PPC installs into the motherboard's CPU socket. For this reason, the Macintosh's original 68040 CPU must be removed using the CPU remover tool (CRT) packaged with the Presto PPC card.
- 2. On the rear of the Macintosh, remove the two screws on the motherboard panel and carefully slide the logic board out of the Macintosh.
- 3. Locate the PDS slot. If there is a PDS card already installed, remove it.
- 4. Locate the 68040 CPU in the center portion of the machine
- 5. Insert the CPR between the 68040 CPU and the CPU socket. Lift the CPU out of the socket by slowly moving around the perimeter of the chip while gently pushing downward. Carefully remove the CPU from the socket, making sure not to bend any of the pins on the bottom of the chip and set it aside. You will install it onto the Presto PPC card in a later step.



**6.** Remove the Presto PPC processor upgrade card from the anti-static package, making sure to handle the card by the edges.

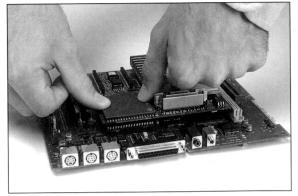
#### Installing the Presto PPC Card

Hold the Presto PPC card so that the pins on its underside are lying against a flat non-metallic surface. Align the 68040 CPU that was removed from the motherboard over the socket on the Presto PPC card being sure that pin 1 on the CPU (denoted by 1) mark on the top of the 68040 CPU) aligns with pin 1 on the socket (located near the innermost part of the Presto PPC card). Press over the center of the CPU and then repeat around the edges to ensure that it is fully and evenly seated.



Installing the 68040 onto the Presto PPC Card

2. Remove the protective foam from the Presto PPC's pins and place the foam directly beneath the motherboard's CPU socket during the installation for cushioning. Orient the Presto PPC over the motherboard CPU socket as shown below. Be sure that the pins on the Presto PPC align with the socket on the motherboard and then press down firmly over the CPU until it is fully seated.

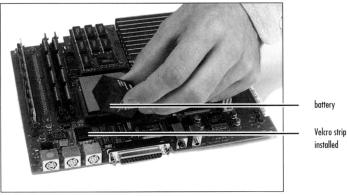


Installing the Presto PPC Card

3. Reinstall the battery cable and the cache daughter card.

4. Install the provided Velcro strip onto the chip on the motherboard as

shown below and then attach the battery to the Velcro.



Installing the battery and Velcro

5. Reinstall the motherboard into the computer. Reattach the upgrade panel and all the cables you removed.

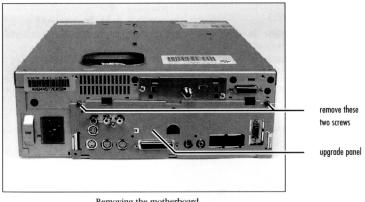
Note: If you would like to upgrade to Mac OS 8.5 please refer to the Presto PPC software installation instructions that are included. The Presto PPC LC diskette will also be required for this upgrade.

## Installing the Presto PPC - Quadra, LC, and Performa 630 Series

# **Preparing the Macintosh for installation**

1. On the rear of the Macintosh. remove the two screws on the motherboard

panel and carefully slide the motherboard out of the Macintosh.

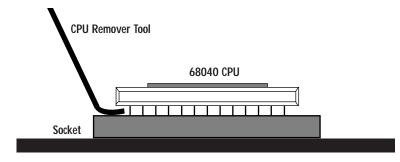


Removing the motherboard

- 2. Locate the PDS connector and remove any card that may be installed there.
- 3. Pull the battery away from its Velcro connection on the motherboard and set it to the side.

### **Removing the CPU Chip**

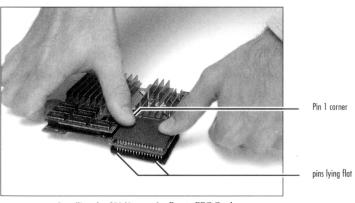
- 1. The Presto PPC installs into the motherboard's CPU socket. For this reason, the Macintosh's original 68040 CPU must be removed using the CPU remover tool (CRT) packaged with the Presto PPC card.
- 2. Locate the PDS slot . If there is a PDS card already installed, remove it.
- 3. Locate the 68040 CPU in the center portion of the machine.
- 4. Insert the CPR between the 68040 CPU and the CPU socket. Lift the CPU out of the socket by slowly moving around the perimeter of the chip while gently pushing downward. Carefully remove the CPU from the socket, making sure not to bend any of the pins on the bottom of the chip and set it aside. You will install it onto the Presto PPC card in a later step.



**5.** Remove the Presto PPC processor upgrade card from the anti-static package, making sure to handle the card by the edges.

#### Installing the Presto PPC Card

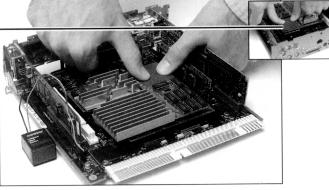
Hold the Presto PPC so that the pins on its underside are lying against
a flat non-metallic surface. Align the 68040 CPU that was removed from the
motherboard over the socket on the Presto PPC, being sure that pin 1
on the CPU (denoted by ) mark on the top of the 68040 CPU) aligns with
pin 1 on the socket (located near the innermost part of the Presto PPC).
Press over the center of the CPU and then repeat around the edges to ensure
that it is fully and evenly seated.



Installing the 68040 onto the Presto PPC Card

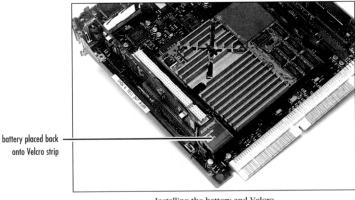
2. Remove the protective foam from the Presto PPC's pins and place the foam directly beneath the motherboard's CPU for cushioning. Orient the Presto PPC over the motherboard CPU socket as shown below. Be sure that the pins on the Presto PPC align with the socket on the motherboard and then press down firmly over the CPU until it is fully seated.

Note: To properly align the Presto PPC Card's pins over the motherboard CPU socket, your viewing angle should be from the rear of the motherboard.



Installing the Presto PPC Card

Attach the battery onto the Velcro strip on the motherboard. 3.



Installing the battery and Velcro

4. Reinstall the motherboard into the computer. Reattach the cover and all the cables you removed.

Note: If you would like to upgrade to Mac OS 8.5 please refer to the Presto PPC software installation instructions that are included. The Presto PPC LC diskette will also be required for this upgrade.

# Mac OS 8.5 Installation Instructions for the Sonnet Presto PPC Processor Upgrade Card

#### What You Need:



- Sonnet<sup>™</sup> Presto<sup>™</sup> PPC, DayStar<sup>™</sup> Digital PowerPro<sup>™</sup> 601 or PowerCard<sup>™</sup> 601, or Apple<sup>®</sup> Computer PowerPC<sup>™</sup> processor upgrade card.
- Sonnet Presto PPC diskette.
- Macintosh<sup>™</sup> compatible CD-ROM drive.
- Mac<sup>®</sup> OS 8.5 software package (sold separately).
- Minimum of 16 MB of RAM; 24 MB recommended.
- Approximately 150-200 MB of free hard drive space for standard software installation; additional hard drive space for optional components.

#### **Software Installation Overview**

Please review the following guidelines prior to installing Mac OS 8.5:

- Mac OS 8.5 requires a PowerPC processor. You must upgrade your Quadra/Centris with a PowerPC processor upgrade card prior to installing Mac OS 8.5. Once you install Mac OS 8.5, you must have a PowerPC processor card installed to boot your computer.
- Make a backup of important information on your hard drive prior to installing new hardware or software.
- If you are installing Mac OS 8.5 from a non-Apple CD-ROM drive, or wish to review Apple's guidelines for installing Mac OS 8.5, refer to the *Mac OS 8.5 Installation Guide*.
- To avoid Mac OS 8.5 software conflicts you may need to update third-party extensions and control panels. Contact the software manufacturers or visit their web sites for software updates.
- For the installation of Mac OS 8.5 we recommend performing a "clean" installation of the system software. A clean installation creates a completely new System Folder for Mac OS 8.5. The current System Folder on your hard drive is untouched and renamed "Previous System Folder." This allows you to easily return to your old system software if you need or choose to do so.
- 1. Turn on your computer.
- 2. After the computer finishes booting, insert the Presto PPC diskette into the floppy disk drive. Double-click on the disk to open it. Select and drag the Presto PPC 8.5 Enabler and Presto PPC ID *(Figure 1)* from the floppy diskette onto the closed System Folder on the hard drive.

The Presto PPC 8.5 Enabler will be placed into the System Folder. The Presto PPC ID extension will be placed into the Extensions Folder (located inside the System Folder).

- **3.** Eject the Presto PPC floppy diskette. Keep the Presto PPC diskette readily available. You will need it to conclude the installation of Mac OS 8.5 in a later step.
- **4.** Restart your Quadra or Centris. As the computer boots, hold down the Option-Command keys to rebuild your Mac's Desktop file.
- 5. After the computer finishes rebuilding the Desktop file, insert the Mac OS 8.5 CD into the CD-ROM drive and double-click the Mac OS Installer.
- 6. At the Welcome screen click 'Continue' (Figure 2).
- 7. At the Select Destination screen (Figure 3) perform the following:
  - From the Destination Disk pop-up menu select the hard drive you plan to install Mac OS 8.5 *(Figure 3)*.
  - Next, click 'Options...' (Figure 4).
  - A dialog box appears; click 'Perform Clean Installation' (Figure 5).
  - Then, click 'OK'.



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<b>85</b>		
Figure 1: Presto PPC 8.5 Enabler and Presto PPC ID		
Install Mac 05 8.5		
Welcome to the Mac 05 8.5 installation program. This program will guide you through the four steps necessary to install Mac 05 8.5.         1, Select a destination disk         2, Read important information         3, Respond to the software license agreement         4, Install software         Click Continue to begin the first step.         Go Back       Continue		
Figure 2: Welcome to Mac OS 8.5 Screen		
Install Mac OS 8.5		
Options Go Back Select		
Figure 3: Select destination disk for Mac OS 8.5		
Install Mac 05 8.5  Select Destination  Choose a disk to install the software on, then click Select.  Destination Disk: Macintosh HD  System software currently installed: None installed  Valide dis pase: 615 YB  Approximate disk space required for basic installation: 179 H8  This disk has enough space for a basic installation.		
Click 'Options'		
Install Mac OS 8.5 Select Destination Click 'Perform Clean Installation' then click Select. Perform Clean Installation' Installs a completely new System Folder that dees not include your third-party extension, control panels, or fords. System software and application performances are reaset to that' default actings: Approx Third Control (Control (Contr		

- **8.** After the dialog box disappears you will return to the *Select Destination* screen; click 'Select' *(Figure 6)*.
- **9.** At the *Important Information* screen read the Installing Mac OS 8.5 onscreen documentation; click 'Continue' (*Figure 7*).
- At the *Software License Agreement* screen read the software license agreement; click 'Continue'. A dialog box appears asking you to agree to the terms of the software license agreement. If you agree, click 'Agree' (*Figure 8*).
- 11. At the Install Software screen click 'Start' (Figure 9).
- **12.** A dialog box may appear stating that the Mac OS Installer will automatically quit all running applications to begin the software installation. Click 'Continue' to begin with the installation *(Figure 10)*.

(Installation instructions continued on next page)

Select Destination	2
Choose a disk to install the software on, ther	click Select.
Destination Disk: Macintosh HD	•
System software currently installed: Available disk space:	None Installed 615 MB
Approximate disk space required for basic installation:	179 MB
This disk has enough space for a basic installation.	
	click 'Select'
Options	Go Back Select
Figure 6: Click 'Select' to co	ontinue installation
Install Mac 05	
Important Information	?
Installing Mac OS 8.5	▼ Ⅲ
This document describes how to install Mac OS 8.3	5. It includes compatibility
information, instructions for the Install Mac OS ap installation troubleshooting.	oplication program, and basic
For more detailed information, see the Mac OS in	stallation manual.
Before you install	click 'Continue'
Save Print	Go Back Continue
Eiguro 7: Important Info	ormation screen
Figure 7: Important Info	omationscreen
Install Mac 05	
Software License Agreement	English 🗢 😰
Apple Con Software	a the software you
Software 1 International Market Software 1 PLEASE F CAREFUL	
ADDRADS	clipton allala (Amaria
YOU ARE Click Agree to continue, or YOU DO t cancel the installation. WHERE Y	then click 'Agree'
	gree Agree ron
disk, in read licensed to you by Apple Computer, Inc. or its local subsidie on which the Apple Software is recorded but Apple and/or A	pple's licensor(s) retain title to the Apple
Save Print TIFST CIICH	k 'Continue'
Figure 8: Agree to Software	License Agreement
Install Mac 05	8.5
🖈 Install Software	?
Click Start to install Mac OS 8.5 on "Macinto:	sh HD."
	alial: (Charte
	click 'Start'
Customize Options	Go Back Start
Figure 9: Click 'Start' to Ir	nstall Mac OS 8.5
Install Mac 05 I	2
Click St This installation/remov and cannot take place	while other
applications are runnin Click Continue to autom	
click Continue to autom other running applica leave your disk untou	click 'Continue'
	op Continue
Customize Options	Go Back Start
Figure 10: Click 'Continue' t	o begin installation

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- **13.** The Mac OS Installer will first check the integrity of your hard drive, which will take several minutes depending on the size of your hard drive. If the hard drive is functioning properly the installer will begin the installation. Refer to the troubleshooting section of the *Mac OS 8.5 Installation Manual* for further instructions should a problem arise.
- 14. After the installation is complete a dialog box will appear asking if you would like to continue to install other software or restart your computer. Before using Mac OS 8.5 you will need to update the newly created System Folder with the Presto PPC 8.5 Enabler software from the Presto PPC diskette. Click 'Restart' and immediately after the startup tone, insert the Presto PPC diskette into the floppy disk drive.
- 15. The computer will boot from the Presto PPC diskette.
- **16.** After the computer finishes booting, eject the Mac OS 8.5 CD if it is still in your CD-ROM drive.
- 17. Install the following software from the Presto PPC floppy diskette:
  - Locate the Presto PPC 8.5 Enabler on the Presto PPC diskette and drag it onto the newly created System Folder on the hard drive *(Figure 11)*. **DO NOT** drag it onto the "Previous System Folder."
  - Open the System Folder on the hard drive so the Control Panels Folder is visible. Locate the 601 Processor Upgrade control panel on the Presto PPC diskette and drag it onto the Control Panels Folder on the hard drive *(Figure 12)*.
  - Double-click on the Control Panels Folder on the hard drive. Locate the 601 Processor Upgrade control panel, double-click on it, and verify it is turned on *(Figure 13)*. Close the control panel.
- **18.** Locate and double-click the Apple System Prof 2.1.1 patcher on the Presto PPC diskette. You will be prompted to locate the Apple System Profiler application. It is located inside the Apple Menu Items Folder inside the System Folder on your hard drive. This patcher fixes a bug with version 2.1.1 of the Apple System Profiler when run on PowerPC upgraded Quadra and Centris computers.

**Support Note:** If you upgrade to Mac OS 8.5.1 you will need to update the Apple System Profiler since Mac OS 8.5.1 upgrades it to version 2.1.2. You can upgrade the application by running the Apple System Prof 2.1.2 patcher on the Presto PPC diskette.

The Apple System Profiler provides you with information about your Macintosh such as hardware and software configurations.

- 19. Restart your computer.
- **20.** As the computer boots, hold down the Option-Command keys to rebuild your Mac's Desktop file.
- **21.** After the computer finishes rebuilding the Desktop file, your computer should boot with Mac OS 8.5.
- **22.** Since you did a clean installation of the system software your third-party extensions, control panels, and fonts will not be installed. You will need to copy or move these files from the "Previous System Folder" to the new System Folder. Before doing so we strongly recommend you verify their compatibility with Mac OS 8.5. Contact the software manufacturers or visit their web sites for software updates.

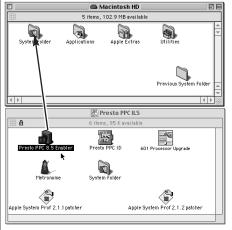


Figure 11: Install Presto PPC 8.5 Enabler

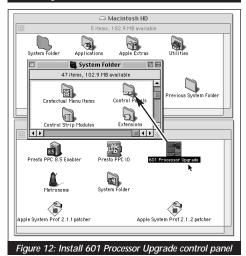




Figure 13: 601 Processor Upgrade control panel

601 Processor Upgrade		
040	Choose how you want the 601 Processor Upgrade to be when you restart your computer. On	

Figure 14: 601 Processor Upgrade dialog box

#### **Troubleshooting Mac OS 8.5 with the Presto PPC**

#### Problem: The computer does not boot with Mac OS 8.5.

**Possible Solution:** Mac OS 8.5 requires a PowerPC processor to operate. You may need to install the Sonnet Presto PPC processor upgrade card, replace your logic board battery, and/or boot from the Presto PPC diskette to turn on the Presto PPC card.

- If the Presto PPC is not installed If the Presto PPC processor upgrade card is removed from the computer you will need to boot your Macintosh with a version of the System software that supports the 68040 processor (System 7.1 - Mac OS 8.1). The Presto PPC diskette supplied with the Presto PPC card has an emergency start-up version of System 7.5.3. You can use the Presto PPC diskette to temporarily boot your Macintosh and install or re-enable a version of the system software on your hard drive that supports the 68040 processor.
- If the PRAM is reset or logic board battery replaced Certain Mac OS files and control panel settings are stored in PRAM (an area of the Mac's memory sustained by the logic board's battery when the computer is turned off). Control panel preferences are reset to Apple-default settings if the battery is low or the PRAM is "zapped" (by holding down the Command-Option-P-R keys at startup until the Mac restarts itself a second time).

If the PRAM is reset, the 601 Processor Card setting defaults to off (68040 is default processor). If this occurs you will need to boot your computer from the Presto PPC diskette, open the 601 Processor Card control panel, turn on the Power Macintosh Upgrade Card, and restart your computer.

#### Problem: The computer does not boot directly from the Mac OS 8.5 CD.

**Possible Solution:** Since the CD-ROM does not contain the Presto PPC 8.5 Enabler software, it does not have the necessary software to be utilized as a bootable startup disk with the Presto PPC processor upgrade card. If you require an alternate startup disk (for possible troubleshooting purposes), the Presto PPC diskette can be utilized as a boot disk.

#### Problem: Apple System Profiler unexpectedly quits.

**Possible Solution:** Version 2.1.1 and 2.1.2 of the Apple System Profiler has a bug that unexpectedly quits the application when run on PowerPC upgraded Quadra and Centris computers. To fix the problem you need to run either the Apple System Prof 2.1.1 patcher (if you are using Mac OS 8.5) or Apple System Prof 2.1.2 patcher (if you are using Mac OS 8.5.1). Both these patches are available on the Sonnet Presto PPC diskette.

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