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# O2™ Workstation CPU Upgrade Installation

This note tells you how to install the software for the CPU upgrade, and then provides a pointer to the location of the hardware installation instructions. Install the software first, as described below.

The note contains the following information:

- “Installing the Software Patches” on page 1.
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- “Locating Online CPU Upgrade Instructions” on page 3.
- “Installing the O2 Workstation Hardware Reference Guide From a CD” on page 4.

## Installing the Software Patches

Depending on which version of IRIX is installed on your O2 workstation, you may need to install patches for the R5000 or R10000 CPU upgrade. To determine whether you need to install patches, check your workstation’s IRIX version. In a shell window, enter

```
uname -R
```

- If you see 6.5, you have the correct IRIX version. *Do not install any patches.*
- If you see 6.3 O2 R10000, you need to install software patches from the CD included with this kit. Go to “Installing the Software Patches” on page 2.
- If you see 6.3, you need to first upgrade your workstation to “IRIX 6.3 for O2 Including R10000” and then install the patches from the CD included with this kit. The “IRIX 6.3 for O2 Including R10000” software was mailed to all current O2 customers in December 1996.

**Caution:** If you are installing “IRIX 6.3 for O2 Including R10000” now, you must reboot the system *before* installing the patches CD, because the flash PROM environment variables may become corrupt.

To install the patches on your workstation, follow these steps:

1. Insert the “IRIX 6.3 Recommend/Required Patches” CD in the CD-ROM drive and wait a few seconds until the CD-ROM icon on the desktop shows it is loaded. Then double-click the CD-ROM icon. If you have a root password set, you are prompted to enter it.
2. Read the Installation Startup Message that displays and click *Dismiss*.
3. Select `/CDROM/dist/6.3_O2/` in the Software Manager window, and click *Open*.
4. Read the Installation Startup Script and click *OK*.
5. In the Software Manager window, click *Start* to begin auto installation.
6. When you are asked in the Open Additional Distribution window if you want to install additional software, click *Done*.
7. Follow the installation instructions displayed in Software Manager. When the installation is complete, choose File > Exit.
8. From the Toolchest, choose System > Restart System.

## Locating and Installing the Documentation

This section describes the documentation that contains the CPU upgrade installation information.

To install the CPU upgrade in your workstation, refer to the installation instructions in the *O2 Workstation Owner's Guide* (printed) that came with your O2 workstation, or the online *O2 Hardware Reference Guide*. The sections below describe how to locate the information.

### Locating Printed CPU Upgrade Instructions

In the hard-copy *O2 Workstation Owner's Guide* that came with your workstation, find the section “Replacing the R5000 CPU Module” or “Replacing the R10000 CPU Module,” (depending on your workstation) and follow the instructions.

**Note:** If you have an R10000 O2 workstation with either a Single-Attachment Station (SAS) or Dual-Attachment Station (DAS) FDDIXpress™ PCI board installed, you need to remove the PCI board from the PCI tray before removing the tray. This is because FDDIXpress boards have extra-long connectors, making it difficult to remove the tray. For other PCI boards on R10000 O2s, you do not need to remove the PCI board first.

## Locating Online CPU Upgrade Instructions

If you installed IRIX 6.3 for O2 Including R10000, the *O2 Workstation Hardware Reference Guide* was installed by default on your system disk. See “Viewing the Book From the IRIS InSight™ Library” below. If the book was removed from the system disk, see “Installing the O2 Workstation Hardware Reference Guide From a CD” on page 4.

### Viewing the Book From the IRIS InSight Library

To locate the online book:

1. From the Toolchest on your desktop, choose Help > Online Books > SGI End User > *O2 Workstation Hardware Reference Guide*.
2. Select “Ordering, Removing, and Installing Replacement Parts.”
3. Search for either “Replacing the R5000 CPU Module” or “Replacing the R10000 CPU Module,” depending on your workstation.

You can view the book online, or print the information you need. To print, from the Books menu in IRIS InSight, choose Print.

### Viewing the Book on the Internet

If you have access to the Internet, you can view the *O2 Workstation Hardware Reference Guide* in the Technical Publications Library on the Silicon Graphics home page at <http://techpubs.sgi.com/library/>

Choose Bookshelves > Hardware Bookshelf > SGI End User > *O2 Workstation Hardware Reference Guide*. Search for either “Replacing the R5000 CPU Module” or “Replacing the R10000 CPU Module,” depending on your workstation.

## Installing the O2 Workstation Hardware Reference Guide From a CD

If the online manual has been removed from your system disk, you can reinstall it from the O2 IRIX operating system CD that came with your workstation. Follow these steps:

1. Place the “IRIX 6.3 for O2 Including R10000” CD in the CD-ROM drive and double-click the CD-ROM icon on your desktop. The Software Manager window appears. Click the *Dismiss* button.
2. Click *Customize Installation*.
3. When the Open Additional Distribution dialog box appears, click *Done*.
4. From the Selected menu, choose Unmark All.
5. From the Selected menu, choose Find...
6. When the dialog box appears, enter **Hardware Reference Guide**, and click *Search*. Software Manager highlights the *O2 Hardware Reference Guide* in its Software Inventory Window.
7. Click in the Install check box to select the book for installation, and click *Start* to begin the installation. When the installation is complete, you see a message Installation and removals were successful. You may continue with installation or quit now. Click *OK*.
8. Exit Software Manager by choosing Exit from the File menu.
9. To locate the online books, from the Toolchest choose Help > Online Books > SGI End User > O2 Workstation Hardware Reference Guide.

If the book does not appear on the End User Bookshelf, you may have to update the InSight database. In a shell window, enter the commands below:

- Become super user. Enter:  
`su`  
Enter the root password if you are prompted for it.
- To update the database, enter the command below. Note that although the command appears below on two lines, it is one command; do not insert a space between the first and second lines.

```
/usr/lib/infosearch/bin/booksAdmin -full -hwdi  
/usr/share/Insight/library/ SGI_bookshelves
```

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