Personal DECstation
5000 Model 50

digital   R4000 Series CPU Upgrade
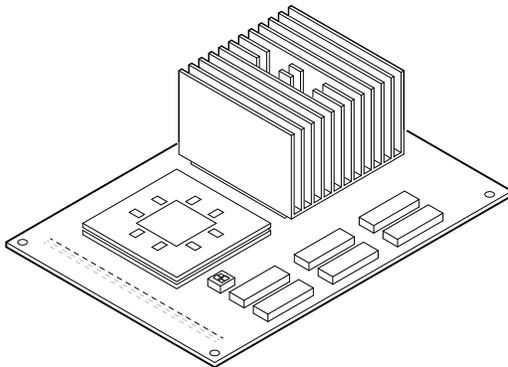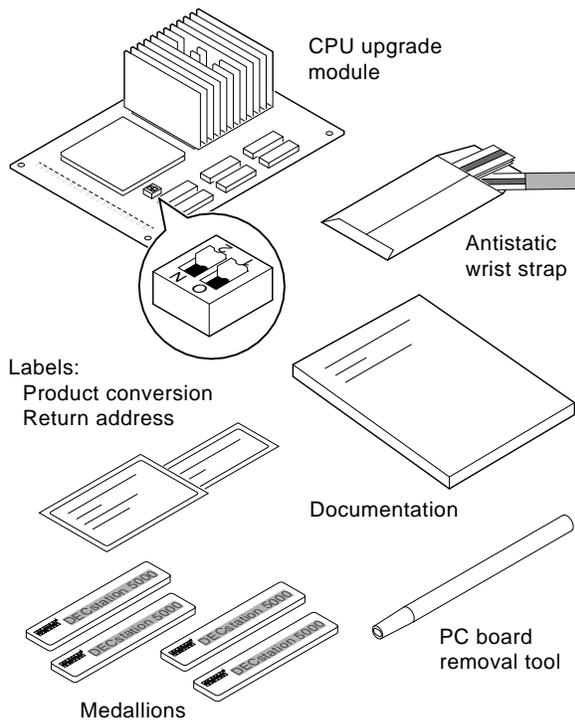
Check the Shipment Contents

If you are missing any of the components shown below, contact your Digital sales representative.

Make sure the switch packet on the CPU is set as shown here. (Both switches in the off position.)

CPU upgrade module

Antistatic wrist strap

Labels:
  Product conversion
  Return address

Documentation

Medallions

PC board removal tool

Note: Save all packaging; you will need it for returning your R3000 CPU module.
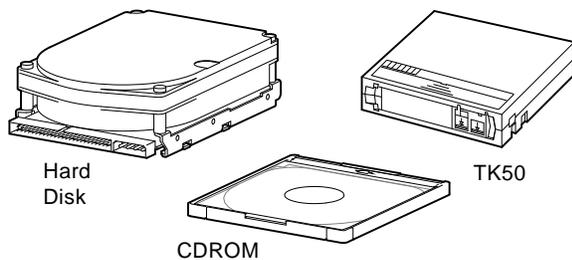
Check the System Software

Versions of ULTRIX and UWS earlier than
4.3A do not support the R4000 series CPU
upgrade.

Enter this command to see which version of
software is on your system:

```
>>more /etc/motd
```

If you do not have ULTRIX and UWS Ver-
sion 4.3A or later, you must upgrade your
software before you continue.

Hard
Disk

CDROM

TK50

See the *Guide to Installing ULTRIX* for in-
formation on upgrading your system   soft-
ware.

After you successfully boot your software
continue with the CPU upgrade instructions
that follow.

Shut Down the System Software

Follow these instructions to shut down your system software (ULTRIX and UWS Version 4.3A or later):

1. Enter this command at the superuser prompt (#) to shut down the software:

    ```
    # /etc/shutdown -h now
    ```

2. If you have just installed a new version of software, enter the printenv command at the console prompt to show the location of your software. For example:

    ```
    >>printenv
    3/rz0/vmunix -a
    .
    .
    .
    ```

In this example the software is located on a hard disk that is set to SCSI ID 0. Slot 3 is the location of the disk drive.

You will need this information to boot your software after you complete the upgrade.

Record the display here:
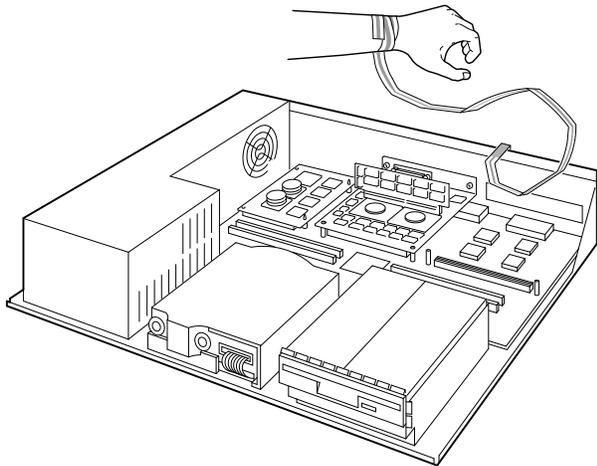
Remove the System Unit Cover

1. Turn off your system unit and any expansion boxes. Keep the system plugged in (grounded) to the wall outlet.

2. Unscrew the two cover-release screws on the back of the system unit.

Cover
release
screws
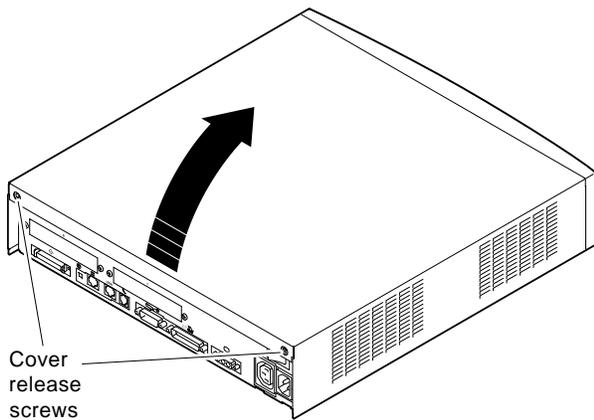
3. Lift the back end of the cover about six inches.

4. Pivot the cover on the tabs that are along the lower part of the cover's front edge.

5. Slide the cover up and away from the system unit.

Attach the Antistatic Wrist Strap

Attach the antistatic strap to your wrist and
to the side of the system box to ground it.

Caution: Do not touch anything inside the
system unit until you have the antistatic
wrist strap attached. Failure to use the
antistatic wrist strap can result in damage to
equipment.

Remove the R3000 CPU Module

1. Push the PC board removal tool down over each of the mounting posts on the R3000 CPU module to unlock them.

2. Pry the module up with your fingers.

Mounting posts
(two of three)

Heat sinks

CPU
connector

PC board
removal
tool
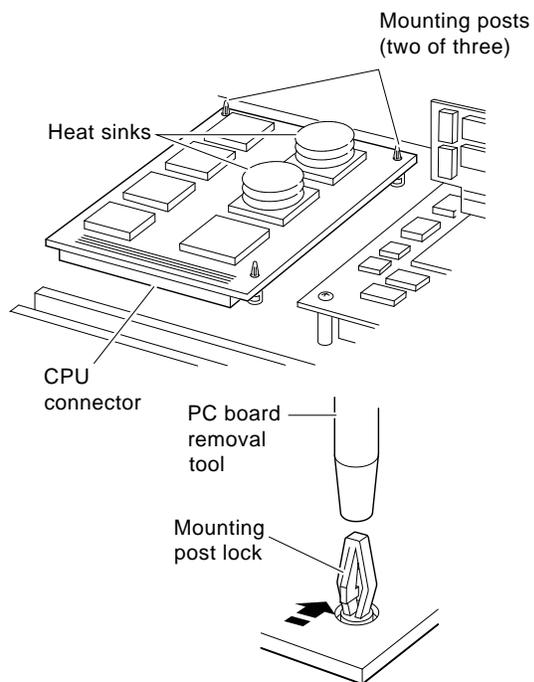
Mounting
post lock

3. Set the R3000 CPU module aside.

Install the R4000 CPU Module

1. Align the board mounting holes over the mounting posts.

2. Push down on the board with your fingers until each mounting post locks and the CPU module connector is seated in the base module connector.
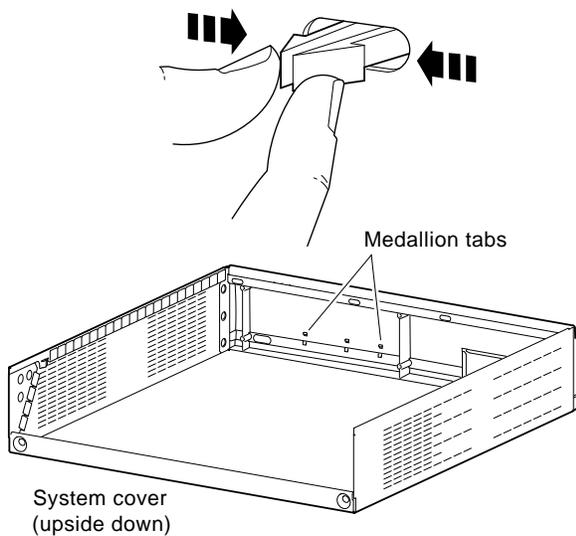
Caution: Do not push on the heat sink.

Heat sink

CPU connector

Base module connector

Mounting post (one of three)
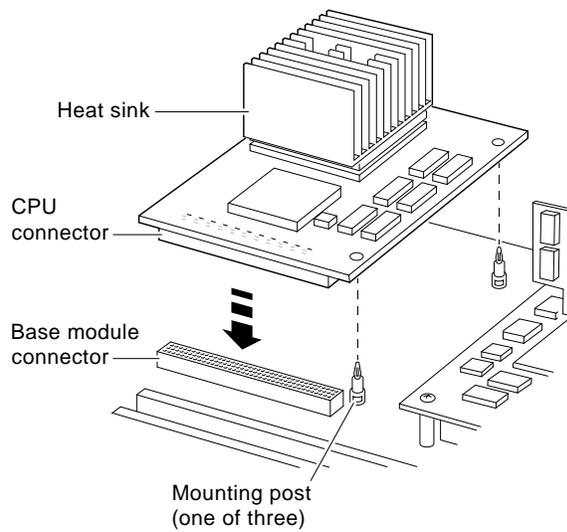
3. Remove your wrist strap.

Replace the Medallion

1. Place the system unit cover upside down on a table.

2. Squeeze together the medallion tabs and pop out the medallion.

Medallion tabs

System cover
(upside down)

3. Choose the correct system medallion:

   Workstation: Personal DECstation 5000
   Server: Personal DECsystem 5000

Note: If your workstation has a metal front panel, use the medallion with the indicator light attached.

4. Snap in the new medallion and turn the cover right side up.

Replace the System Unit Cover

1. Tilt the cover so that the back is about six inches higher than the front.

2. Insert the tabs on the front edge of the cover into the slot along the front edge of the system unit.

Cover release screws
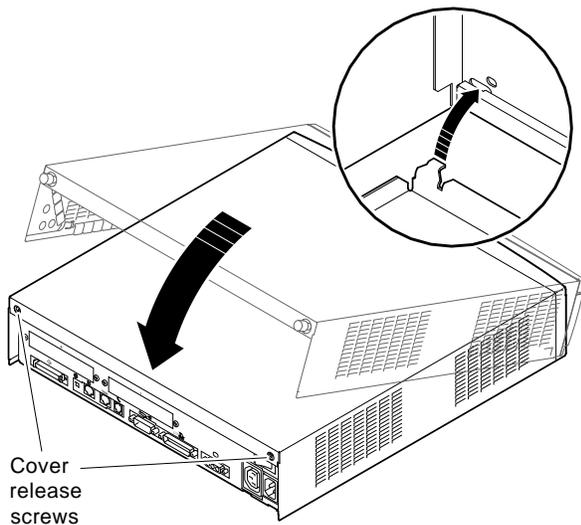
3. Lower the back of the cover into place.

4. Replace and tighten the cover release screws that hold the cover.

Attach the Conversion Label

Place the product conversion label on the top of your system unit cover.

Product
conversion label
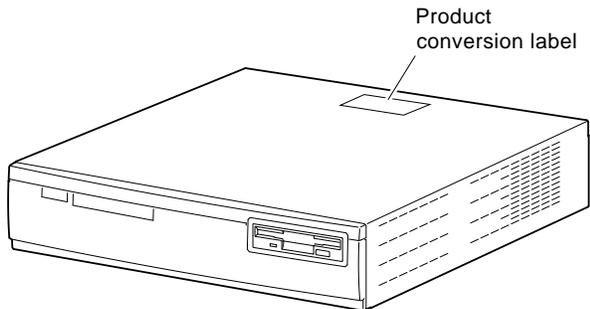
Turn Your System On

1. Turn on your system unit and all expansion boxes. The system will run startup tests.

2. When the startup tests complete, the console prompt (>>) displays on the screen.

3. Using the `printenv` information you recorded earlier, reboot the system software as in the following example:

```
>>setenv boot "3/rz0/vmunix -a"
>>boot
```

In this example the software was rebooted from a hard disk set to SCSI ID 0.

Return the R3000 CPU to Digital

1. Put the R3000 CPU module into the upgrade packaging as shown below.

2. Attach the return address label and mail it to Digital Equipment Corporation.

Return address label

Old module

ESD bag

Bubble pack

Shipping carton
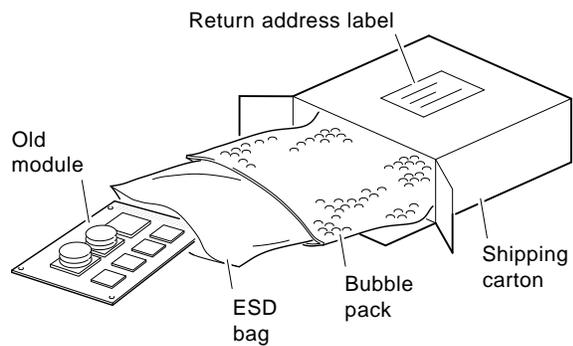
 Call your Digital service representative to update your hardware service contract.