

Dell™ PowerEdge™ 1500SC Systems

Information Update



Notes, Notices, and Cautions



NOTE: A NOTE indicates important information that helps you make better use of your computer.



NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



CAUTION: A CAUTION potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

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This document includes the following information about your system:

- Bezel indicators
- Adding or replacing a microprocessor
- Troubleshooting power supplies

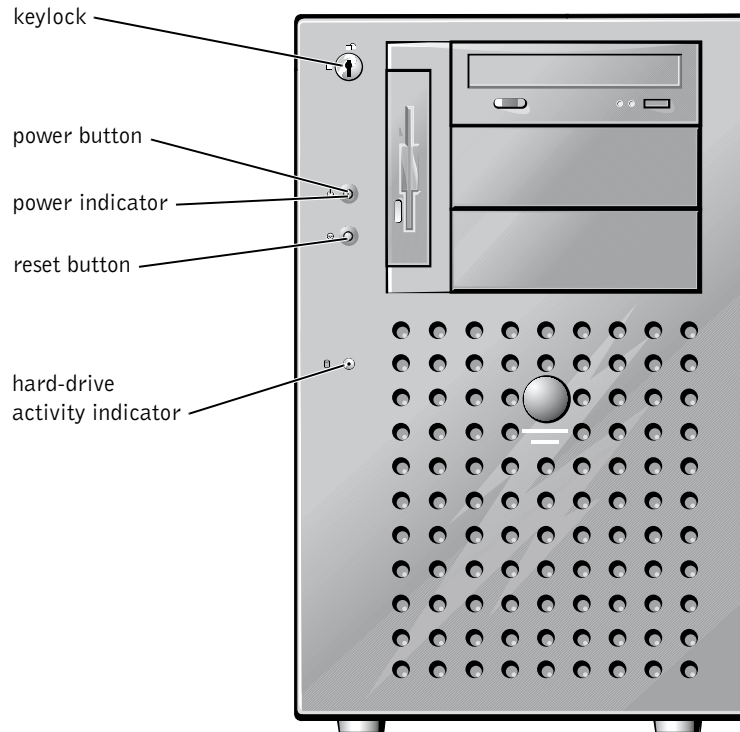


NOTE: Your Dell™ PowerEdge™ 1500SC system comes with fault-monitoring features. To take full advantage of these features and for optimal system performance, Dell recommends that you use the *Dell OpenManage Server Assistant* CD for initial setup and installation of your operating system.

The *Dell OpenManage Server Assistant* CD contains utilities, diagnostics, drivers, and other updates that you need to operate and administer your system. Using this bootable CD simplifies the setup of your system by automating the system configuration and operating system.

Bezel Indicators

When the bezel is in place on the system, it has two indicators (see Figure 1-1). The power indicator lights green when the system is operating correctly. The hard-drive activity indicator blinks when the hard drives are accessed from the SCSI controller embedded on the system board. If you have an optional RAID controller installed, three indicators on each of the hard-drive carriers provide information on the status of the SCSI hard drives, and the hard-drive activity indicator on the bezel does not blink.

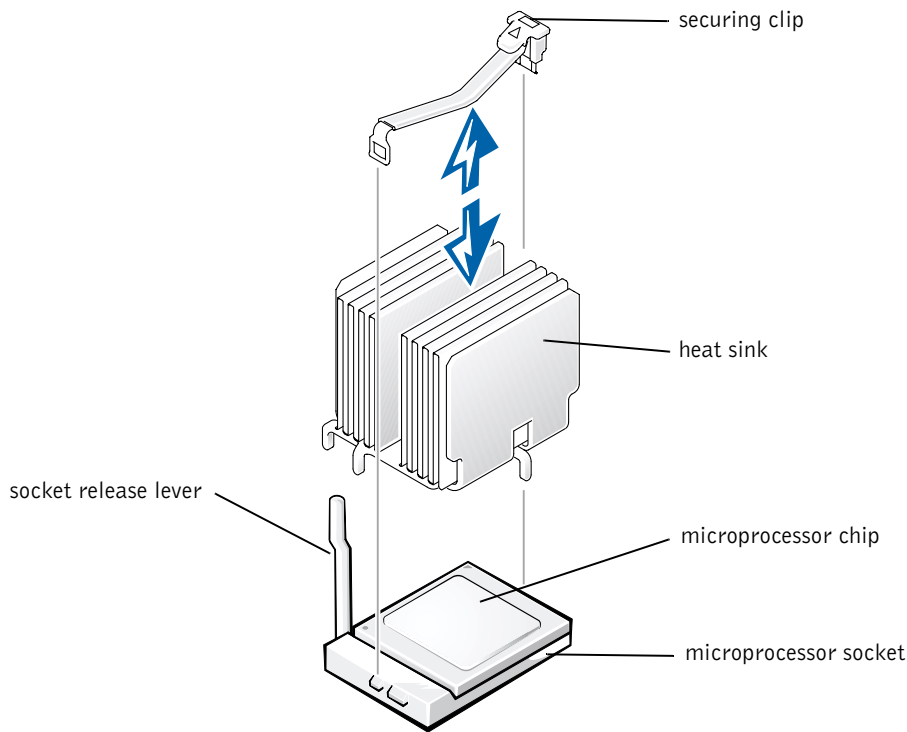
Figure 1-1. Bezel Indicators

Adding or Replacing a Microprocessor

⚠ CAUTION: See "Protecting Against Electrostatic Discharge" in the safety instructions in your *System Information* document.

- 1 Turn off the system, including any attached peripherals, and disconnect the system from the electrical outlet.
- 2 Remove the right-side cover (see your system *Installation and Troubleshooting Guide*).
- 3 Remove the microprocessor and memory module cooling shrouds (see your system *Installation and Troubleshooting Guide*).
- 4 Push on the heat-sink securing clip handle to release the clip from the retaining tabs on the ZIF socket (see Figure 1-2).

Figure 1-2. Heat-Sink Securing Clip



- 5 Remove the securing clip.

CAUTION: The microprocessor and heat sink can become extremely hot. Ensure that the microprocessor has had sufficient time to cool before handling.

CAUTION: Never remove the heat sink from a microprocessor unless you intend to remove the microprocessor. The heat sink is necessary to maintain proper thermal conditions.

- 6 Remove the heat sink.

- 7 Pull the socket release lever straight up until the microprocessor is released (see Figure 1-2).

CAUTION: Be careful not to bend any of the pins when removing the microprocessor. Bending the pins can permanently damage the microprocessor.

- 8 Lift the microprocessor out of the socket and leave the release lever up so that the socket is ready for the new microprocessor.

- 9 Unpack the new microprocessor.

If any of the pins on the microprocessor appear bent, see "Getting Help" in your system *Installation and Troubleshooting Guide* for instructions on obtaining technical assistance.

- 10 Install the microprocessor in the socket.
- 11 When the microprocessor is fully seated in the socket, rotate the socket release lever back down until it snaps into place, securing the microprocessor.
- 12 Place the new heat sink on top of the microprocessor (see Figure 1-2).
- 13 Orient the securing clip as shown in Figure 1-2.
- 14 Hook the end of the clip without the heat-sink latch to the tab on the edge of the socket facing the front of the system.
- 15 Push down and pivot the heat-sink latch until the hole on the clip latches onto the ZIF socket tab.
- 16 If you are adding a second microprocessor, install the VRM in the VRM socket, making sure that the latches engage.
- 17 Reinstall the microprocessor and memory module cooling shrouds (see your system *Installation and Troubleshooting Guide*).
- 18 Reinstall the system's right-side cover (see your system *Installation and Troubleshooting Guide*).
- 19 Replace the front bezel (see your system *Installation and Troubleshooting Guide*).
- 20 Reconnect your system and peripherals to their power sources, and turn on system.

Troubleshooting Power Supplies

Problem

- Red fault indicator on the power supply blinks or lights up continuously (redundant power supplies only)
- No power

Action

- 1 Turn off the system, including any attached peripherals, and disconnect the system from the electrical outlet.

- 2 For systems with nonredundant power supplies, remove the system's right-side cover and make sure that the power connectors are properly connected, and then go to step 4.

For systems with redundant power supplies, check that the power supplies are properly installed, and then go to step 3.

- 3 Connect the system to its electrical outlet and turn on the system.

If a red fault indicator lights up on one of the power supplies (redundant power supplies only), turn off the system, replace the power supply, and then go to step 5.

If the problem persists, see "Getting Help" in your system *Installation and Troubleshooting Guide* for information on obtaining technical assistance.

- 4 Replace the system cover and connect the system to its electrical outlet.

- 5 Turn on the system including any attached peripherals.

If the problem persists, see "Getting Help" in your system *Installation and Troubleshooting Guide* for information on obtaining technical assistance.