



About Cautions

 **CAUTION:** A CAUTION indicates a potential for property damage, personal injury, or death.

Dell™ PowerEdge™ 2900 Systems Information Update

This document provides updated information for your system on the following topics:

- Memory mirroring with fully buffered DIMMs
- Hard drive carriers
- LCD status messages
- Linux enumeration of NICs
- System board replacement (service only procedure)

Memory Mirroring With Fully Buffered DIMMs

As in the previous generation of memory mirroring technology, mirroring with fully buffered DIMMs (FBDs) provides enhanced protection from memory failure events, enabling a more robust computing environment. The new generation of FBD memory mirroring provides an even higher level of system reliability by providing protection against more complex failures, including multi-bit errors should they ever occur on any pair of FBDs within a mirrored branch.

However, a limitation in the chipset prevents the FBD memory mirroring from recovering from a small set of failures that could occur in specific circumstances. These circumstances include rare Advanced Memory Buffer (AMB) hardware failures or a possible short in the FBD connector. Although unlikely, this means that FBD memory mirroring cannot assure failover in all possible circumstances.

Hard Drive Carriers

- The SATA interposer board described in "Installing System Components" in the *Hardware Owner's Manual* is not available for the SATAu hard drive carrier for the initial release of this product. SATA hard drives used in your system can only be installed in the SATA hard drive carrier.
- The drive carrier used for SAS drives is labeled "SAS," and is functionally equivalent to the SATAu drive carrier illustrated in the *Hardware Owner's Manual*.

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LCD Status Messages Update

Table 1 lists updates to the LCD status messages that can occur and the probable cause for each message. The LCD messages refer to events recorded in the system event log (SEL). For information on the SEL and configuring system management settings, see your systems management software documentation.

Table 1. LCD Status Messages


Code	Text	Causes	Corrective Actions
E1118	CPU Temp Interface	The BMC is unable to determine the CPU(s) temperature status. Consequently, the BMC increases the CPU fan speed to maximum as a precautionary measure.	Turn off power to the system and restart the system. If the problem persists, see "Getting Help" in your <i>Hardware Owner's Manual</i> .
E122B	0.9 V Over Voltage	0.9 V regulator voltage has exceeded the allowable voltage range.	See "Getting Help" in your <i>Hardware Owner's Manual</i> .
E122C	CPU Power Fault	A voltage regulator failure was detected when the processor regulator(s) was enabled.	See "Getting Help" in your <i>Hardware Owner's Manual</i> .

 **NOTE:** Each diagnostic LCD message is assigned a priority. The highest priority messages will supersede any group of messages with a lower priority.

Linux Enumeration of NICs

Linux operating system versions that use the **udev** kernel device manager may enumerate the NICs differently than earlier Linux versions, which used the **devfs** device manager. Although this does not affect system functionality, when using Red Hat® Enterprise Linux (version 4) or SUSE® Linux Enterprise Server 9 operating systems, the NICs may be enumerated backwards: NIC1 may be configured as **eth1** rather than as **eth0**, and NIC2 may be configured as **eth0** rather than as **eth1**. For further information and to find methods of changing default device enumerations, see the **White Papers** section at <http://linux.dell.com>.

System Board Replacement Update (Service Only Procedure)

 **CAUTION:** Only trained service technicians are authorized to remove the system cover and access any of the components inside the system. See your *Product Information Guide* for complete information about safety precautions, working inside the computer, and protecting against electrostatic discharge.

The procedure given in the *Hardware Owner's Manual* to replace the system board has been updated. When removing or installing the system board, lift or hold the system board by the retention pin and the system board handles (see Figure 1).


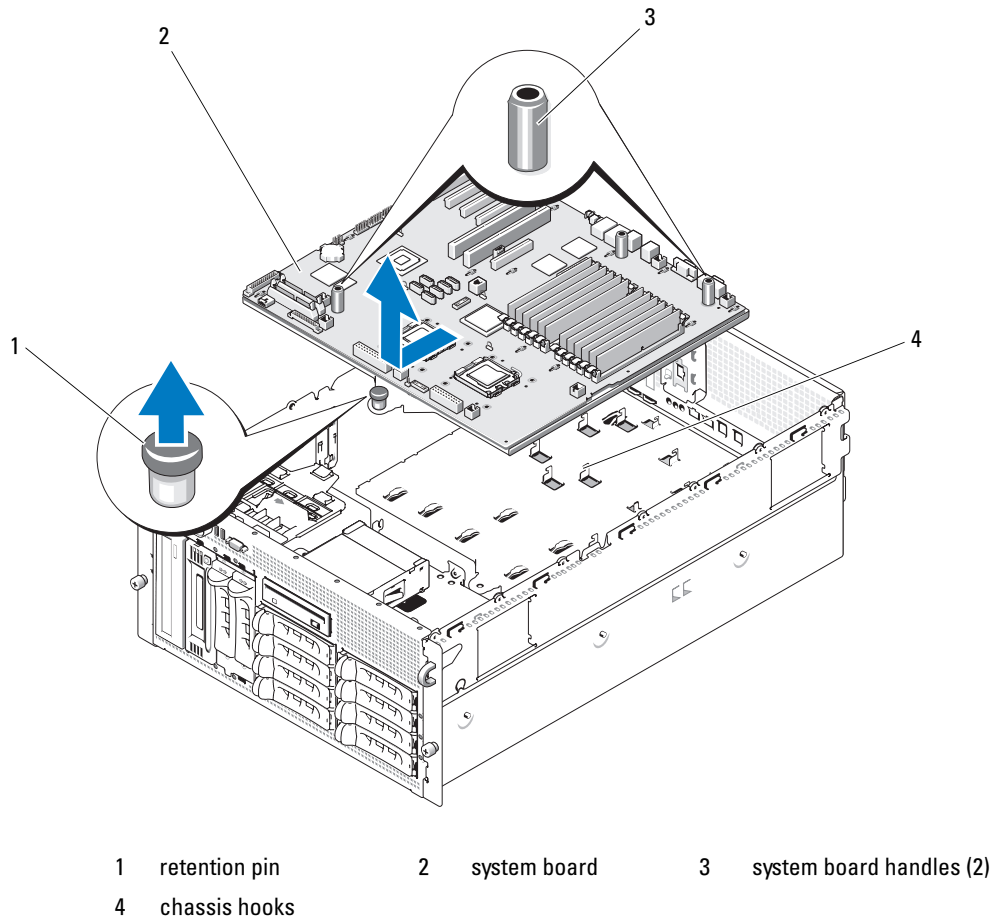
 **NOTICE:** To avoid damage to your system board, do not lift the system board by the memory module retention brackets or by any component on the system board except for the system board handles.

Figure 1. Removing the System Board



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