




# Dell™ PowerEdge™ 500SC Systems

## Red Hat Linux 7.1 Update

 **NOTE:** Dell does not install or support Red Hat Linux on the PowerEdge 500SC; however, Dell has performed some testing with the English version of Red Hat Linux 7.1 on this system. This update is included in order to provide a better customer experience for those customers installing Red Hat Linux on their own. Dell will continue to support the hardware, regardless of the operating system installed; however, should you experience difficulties with Red Hat Linux, look for troubleshooting information on the Red Hat website at [www.redhat.com](http://www.redhat.com).

This document updates information about your PowerEdge 500SC system running the Red Hat Linux 7.1 operating system. It describes the following issues or features:

- Red Hat Linux 7.1 hardware bug error message
- Integrated drive electronics (IDE) tape drive support for your system
- Enabling ATA-100 support
- Dell OpenManage™ Server Agent support for your system

### Red Hat Linux 7.1 Hardware Error Message

When experiencing heavy network traffic, systems running Red Hat Linux 7.1 with the 2.4.3-6 kernel installed return the following error messages in succession. The error messages appear in both the operating system message log and on the local console:

```
kernel: probable hardware bug: clock timer configuration lost -  
probably a VIA686a motherboard.
```

```
kernel: probable hardware bug: restoring chip configuration.
```

Disregard the error messages; a hardware error does not exist. The false error messages do not appear if you upgrade to the 2.4.3-12 (or later) kernel.



## IDE Tape Drive Support

To use an IDE tape drive ordered with your system running Red Hat Linux 7.1, you must add the following lines to the `/etc/rc.d/rc.local` file:

```
modprobe ide-scsi
hdparm -d0 /dev/hdx
mt -f /dev/st0 stoptions no-blklimits
```

where *x* is the assigned drive letter for the tape drive.



**NOTE:** IDE tape drives installed in systems running Red Hat Linux 7.1 must use the `ide-scsi` driver module and can be accessed as `/dev/st0`.

## Enabling ATA-100 Support

To enable ATA-100 support for the IDE hard drives on your system running Red Hat Linux 7.1, you must complete the following steps:

- 1 Enter the System Setup program and set the **Maximum UDMA Mode** to **ATA-100**.



**NOTE:** See the *Dell PowerEdge 500SC Systems Information Update* for further instructions on setting the **Maximum UDMA Mode**.

- 2 Download and install the 2.4.3-12 (or later) kernel from <http://www.redhat.com>.
- 3 Add an entry for the new kernel in `/etc/lilo.conf`.
- 4 Type the following at the top section of `/etc/lilo.conf`:  

```
append="ide0=ata66 ide1=ata66"
```
- 5 Type `lilo -v` at the command prompt to apply the changes made to `/etc/lilo.conf`.
- 6 Restart the system.

## Dell OpenManage Server Agent Support

Server Agent is not currently supported on PowerEdge 500SC systems running Red Hat Linux 7.1.

---

Information in this document is subject to change without notice.  
 © 2001 Dell Computer Corporation. All rights reserved. Printed in the U.S.A.

Reproduction in any manner whatsoever without the written permission of Dell Computer Corporation is strictly forbidden.

Trademarks used in this text: *Dell*, *PowerEdge*, *Dell OpenManage*, and the *DELL* logo are trademarks of Dell Computer Corporation. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell Computer Corporation disclaims any proprietary interest in trademarks and trade names other than its own.