
Subject: Re: DL380 G2 - CCISS

Posted by [gramsa49](#) on Sat, 17 Feb 2007 20:54:20 GMT

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Here is an update, I've isolated where the cciss errors are thrown:

I decided to not install the hp/compaq smartstart cd, but I did attempt to enable the st[0-9] devices:

```
[root@vz1 ~]# cat /etc/init.d/tape_st
```

```
#!/bin/sh
```

```
#
```

```
# chkconfig: 2345 91 1
```

```
# description: Creates the st[0-9] devices for sequential access devices and
```

```
#             medium changer devices on the cciss block device
```

```
#
```

```
for x in /proc/driver/cciss/cciss[0-9]*
```

```
do
```

```
    echo "engage scsi" > $x
```

```
done
```

```
[root@vz1 ~]# chmod 755 /etc/init.d/tape_st
```

```
[root@vz1 ~]# chkconfig --add tape_st
```

Once I did this and rebooted the system, I see the following in /var/log/messages:

```
Feb 17 15:13:55 vz1 kernel: cciss0: No device changes detected.
```

```
Feb 17 15:13:55 vz1 kernel: cciss0: No appropriate SCSI device detected, SCSI subsystem not engaged.
```

```
Feb 17 15:13:55 vz1 kernel: ERROR: SCSI host `cciss' has no error handling
```

```
Feb 17 15:13:55 vz1 kernel: ERROR: This is not a safe way to run your SCSI host
```

```
Feb 17 15:13:55 vz1 kernel: ERROR: The error handling must be added to this driver
```

```
Feb 17 15:13:55 vz1 kernel: [<f883624b>] scsi_host_alloc+0x7d/0x2b9 [scsi_mod]
```

```
Feb 17 15:13:55 vz1 kernel: [<f88540b1>] cciss_scsi_detect+0x13/0x9a [cciss]
```

```
Feb 17 15:13:55 vz1 kernel: [<f8854f53>] cciss_engage_scsi+0x72/0x77 [cciss]
```

```
Feb 17 15:13:55 vz1 kernel: [<f88552d6>] cciss_proc_write+0xc1/0xd4 [cciss]
```

```
Feb 17 15:13:55 vz1 kernel: [<c015a455>] __dentry_open+0xda/0x18f
```

```
Feb 17 15:13:55 vz1 kernel: [<c015a319>] filp_open+0x5c/0x70
```

```
Feb 17 15:13:55 vz1 kernel: [<c0188c9e>] proc_file_write+0x23/0x27
```

```
Feb 17 15:13:55 vz1 kernel: [<c015afe0>] vfs_write+0xb6/0xe2
```

```
Feb 17 15:13:55 vz1 kernel: [<c015b0aa>] sys_write+0x3c/0x62
```

```
Feb 17 15:13:55 vz1 kernel: [<c02d48d7>] syscall_call+0x7/0xb
```

```
Feb 17 15:13:55 vz1 kernel: scsi0 : cciss
```

```
Feb 17 15:13:55 vz1 kernel: Vendor: COMPAQ Model: SDX-500C Rev: 1.32
```

```
Feb 17 15:13:55 vz1 kernel: Type: Sequential-Access ANSI SCSI revision: 02
```

```
Feb 17 15:13:55 vz1 rc: Starting tape_st: succeeded
```

```
Feb 17 15:13:55 vz1 scsi.agent[3201]: tape at
```

```
/devices/pci0000:07/0000:07:04.0/host0/target0:0:0:0:0:0
```

```
Feb 17 15:13:55 vz1 anacron: anacron startup succeeded
```

```
Feb 17 15:13:55 vz1 kernel: st: Version 20040403, fixed bufsize 32768, s/g segs 256
```

```
Feb 17 15:13:55 vz1 kernel: Attached scsi tape st0 at scsi0, channel 0, id 0, lun 0
```

```
Feb 17 15:13:55 vz1 kernel: st0: try direct i/o: yes (alignment 512 B), max page reachable by HBA 4294967295
```

As an extra validation, I disabled the tape_st init script:
[root@vz1 ~]# chkconfig --level 12345 tape_st off
[root@vz1 ~]# chkconfig --list|grep tape_st
tape_st 0:off 1:off 2:off 3:off 4:off 5:off 6:off

I then rebooted the system to see if /var/log/messages repeats the errors, it does not.

I then manually started the tape_st service:

[root@vz1 ~]# service tape_st start

/var/log/messages then shows the following:

Feb 17 15:26:21 vz1 kernel: cciss0: No device changes detected.

Feb 17 15:26:21 vz1 kernel: cciss0: No appropriate SCSI device detected, SCSI subsystem not engaged.

Feb 17 15:26:21 vz1 kernel: ERROR: SCSI host `cciss' has no error handling

Feb 17 15:26:21 vz1 kernel: ERROR: This is not a safe way to run your SCSI host

Feb 17 15:26:21 vz1 kernel: ERROR: The error handling must be added to this driver

Feb 17 15:26:21 vz1 kernel: [<f883624b>] scsi_host_alloc+0x7d/0x2b9 [scsi_mod]

Feb 17 15:26:21 vz1 kernel: [<f88540b1>] cciss_scsi_detect+0x13/0x9a [cciss]

Feb 17 15:26:21 vz1 kernel: [<f8854f53>] cciss_engage_scsi+0x72/0x77 [cciss]

Feb 17 15:26:21 vz1 kernel: [<f88552d6>] cciss_proc_write+0xc1/0xd4 [cciss]

Feb 17 15:26:21 vz1 kernel: [<c015a455>] __dentry_open+0xda/0x18f

Feb 17 15:26:21 vz1 kernel: [<c015a319>] filp_open+0x5c/0x70

Feb 17 15:26:21 vz1 kernel: [<c0188c9e>] proc_file_write+0x23/0x27

Feb 17 15:26:21 vz1 kernel: [<c015afe0>] vfs_write+0xb6/0xe2

Feb 17 15:26:21 vz1 kernel: [<c015b0aa>] sys_write+0x3c/0x62

Feb 17 15:26:21 vz1 kernel: [<c02d48d7>] syscall_call+0x7/0xb

Feb 17 15:26:21 vz1 kernel: scsi0 : cciss

Feb 17 15:26:21 vz1 kernel: Vendor: COMPAQ Model: SDX-500C Rev: 1.32

Feb 17 15:26:21 vz1 kernel: Type: Sequential-Access ANSI SCSI revision: 02

Feb 17 15:26:21 vz1 scsi.agent[4030]: tape at

/devices/pci0000:07/0000:07:04.0/host0/target0:0:0:0:0:0

Feb 17 15:26:21 vz1 kernel: st: Version 20040403, fixed bufsize 32768, s/g segs 256

Feb 17 15:26:22 vz1 kernel: Attached scsi tape st0 at scsi0, channel 0, id 0, lun 0

Feb 17 15:26:22 vz1 kernel: st0: try direct i/o: yes (alignment 512 B), max page reachable by HBA 4294967295

I then rebooted into the CentOS 4.4 kernel to see if I could reproduce the output there. I am able to.

I've come to the conclusion that the cciss driver bundled with the linux kernel is not the best driver available for the device. The HP driver is provided as an rpm (http://h18023.www1.hp.com/support/files/server/us/download/2_5360.html) but only supports a limited number of kernels. Attempting to install the rpm returns the following errors:

[root@vz1 tmp]# uname -a

Linux vz1.home.arswiki.org 2.6.9-023stab040.1-smp #1 SMP Tue Jan 16 00:54:22 MSK 2007 i686 i686 i386 GNU/Linux

[root@vz1 tmp]# rpm -ivh cpq_cciss-2.6.14-7.rhel4.i686.rpm

Preparing... ##### [100%]

The currently running kernel (2.6.9-023stab040.1-smp) is not

supported by this rpm. The supported kernels are:

2.6.9-11.EL
2.6.9-11.ELhugemem
2.6.9-11.ELsmp
2.6.9-22.EL
2.6.9-22.ELhugemem
2.6.9-22.ELsmp
2.6.9-34.EL
2.6.9-34.ELhugemem
2.6.9-34.ELsmp
2.6.9-42.0.3.EL
2.6.9-42.0.3.ELhugemem
2.6.9-42.0.3.ELsmp
2.6.9-42.EL
2.6.9-42.ELhugemem
2.6.9-42.ELsmp
2.6.9-5.0.3.EL
2.6.9-5.0.3.ELhugemem
2.6.9-5.0.3.ELsmp
2.6.9-5.EL
2.6.9-5.ELhugemem
2.6.9-5.ELsmp

Please boot into a supported kernel before installing this rpm

error: %pre(cpq_cciss-2.6.14-7.i686) scriptlet failed, exit status 1

error: install: %pre scriptlet failed (2), skipping cpq_cciss-2.6.14-7

I'm out of ideas at this point as to the best solution to this predicament. I am open to ideas.
