Subject: DL380 G2 - CCISS
Posted by gramsa49 on Fri, 16 Feb 2007 04:43:51 GMT
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/var/log/boot.log
Feb 11 13:51:10 vz1 rc: Starting cciss_scsi: succeeded

/var/log/messages:
Feb 14 17:39:33 vz1 kernel: ERROR: SCSI host `cciss' has no error handling
Feb 14 17:39:33 vz1 kernel: ERROR: This is not a safe way to run your SCSI host
Feb 14 17:39:33 vz1 kernel: ERROR: The error handling must be added to this driver
Feb 14 17:39:33 vz1 kernel: [<c02ee629>] scsi_host_alloc+0x309/0x330
Feb 14 17:39:33 vz1 kernel: [<c013c9f2>] virtinfo_notifier_call+0x52/0xa0
Feb 14 17:39:33 vz1 kernel: [<c016be0e>] handle_mm_fault+0x1be/0x260
Feb 14 17:39:33 vz1 kernel: [<c02a4c9e>] cciss_scsi_detect+0x1e/0xc0
Feb 14 17:39:33 vz1 kernel: [<c02a5f99>] cciss_engage_scsi+0x59/0x90
Feb 14 17:39:33 vz1 kernel: [<c02a6418>] cciss_proc_write+0xc8/0x110
Feb 14 17:39:33 vz1 kernel: [<c016de81>] do_mmap_pgoff+0x551/0x890
Feb 14 17:39:33 vz1 kernel: [<c017d9e6>] vfs_write+0x116/0x160
Feb 14 17:39:33 vz1 kernel: [<c017db01>] sys_write+0x51/0x80
Feb 14 17:39:33 vz1 kernel: [<c04e3dfb>] syscall_call+0x7/0xb
Feb 14 17:39:33 vz1 kernel: scsi0 : cciss
Feb 14 17:39:33 vz1 kernel: Vendor: COMPAQ   Model: SDX-500C   Rev: 1.32
Feb 14 17:39:33 vz1 kernel: Type: Sequential-Access   ANSI SCSI revision: 02
Feb 14 17:39:34 vz1 scsi.agent[8434]: tape at
/devices/pci0000:07/0000:07:04.0/host0/target0:0:0/0:0:0:0
Feb 14 17:39:34 vz1 kernel: st: Version 20040403, fixed bufsize 32768, s/g segs 256
Feb 14 17:39:34 vz1 kernel: Attached scsi tape st0 at scsi0, channel 0, id 0, lun 0
Feb 14 17:39:34 vz1 kernel: st0: try direct i/o: yes (alignment 512 B), max page reachable by HBA
4294967295
Feb 14 17:39:34 vz1 rc: Starting cciss_scsi: succeeded

The steps taken when building this server:
- install CentOS 4.4 (minimal)
- Install Compaq SmartStart 7.7
  - builds some drivers using the kernel sources
- Install OpenVZ:
  - yum install ovzkernel-smp
    - Throws: WARNING: No module cciss found for kernel 2.6.9-023stab040.1-smp, continuing
anyway

Now when booting the host, I receive the above errors from messages. Am I missing something?
Should I have installed the SmartStart drivers using the openvz kernel?

Thanks,
Axton Grams

Subject: Re: DL380 G2 - CCISS
Posted by Vasily Tarasov on Fri, 16 Feb 2007 07:02:31 GMT
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Hello,

Quote:
The steps taken when building this server:
- install CentOS 4.4 (minimal)
- Install Compaq SmartStart 7.7
- builds some drivers using the kernel sources
- Install OpenVZ:
- yum install ovzkernel-smp
- Throws: WARNING: No module cciss found for kernel 2.6.9-023stab040.1-smp, continuing anyway

There is a strange thing in your post. The step of "building some drivers using the kernel sources" goes before the step of "installing ovzkernel-smp". Drivers are always build against certain version of kernel. So, I guess, you should build them after ovz kernel is installed (and booted?)

However this doesn't explain the error...

Can you tell me, please, does CentOS 4.4 kernel with no additional drivers boot normally?

Thanks.

Subject: Re: DL380 G2 - CCISS
Posted by Vasily Tarasov on Fri, 16 Feb 2007 14:02:21 GMT
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Also, please, try "noapic" option for the kernel.

Subject: Re: DL380 G2 - CCISS
Posted by gramsa49 on Fri, 16 Feb 2007 18:03:07 GMT
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Vasily Tarasov wrote on Fri, 16 February 2007 02:02Hello,

There is a strange thing in your post. The step of "building some drivers using the kernel sources" goes before the step of "installing ovzkernel-smp". Drivers are always build against certain version of kernel. So, I guess, you should build them after ovz kernel is installed (and booted?)

However this doesn't explain the error...

Can you tell me, please, does CentOS 4.4 kernel with no additional drivers boot normally?

Thanks.

The CentOS kernel does boot normally without the compaq drivers in place, though the devices are not fully functional (there is a tape drive attached to the scsi bus).

Chances are I need to start over and run the compaq smartstart installation, which builds the compaq drivers, after the openvz kernel is in place. I will do this tonight and post the results.

Subject: Re: DL380 G2 - CCISS
Posted by gramsa49 on Fri, 16 Feb 2007 18:04:08 GMT
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Vasily Tarasov wrote on Fri, 16 February 2007 09:02Also, please, try "noapic" option for the kernel.

After I rebuild the machine, compiling the compaq drivers using the openvz kernel sources, I will try this if the issue persists.

Subject: Re: DL380 G2 - CCISS
Posted by gramsa49 on Fri, 16 Feb 2007 23:45:58 GMT
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For reference, this is the output with the stock CentOS 4.4 kernel:

Feb 16 18:40:10 vz1 kernel: HP CISS Driver (v 2.6.10.RH1)
Feb 16 18:40:10 vz1 kernel: cciss: using DAC cycles
Feb 16 18:40:10 vz1 kernel: cciss: using DAC cycles
Feb 16 18:40:10 vz1 kernel: blocks= 284522880 block_size= 512
Feb 16 18:40:10 vz1 kernel: heads= 255, sectors= 32, cylinders= 34868
Feb 16 18:40:10 vz1 kernel:
Feb 16 18:40:10 vz1 kernel: blocks= 284522880 block_size= 512
Feb 16 18:40:10 vz1 kernel: heads= 255, sectors= 32, cylinders= 34868
Feb 16 18:40:10 vz1 kernel:
Feb 16 18:40:10 vz1 kernel: cciss/c1d0: p1 p2

Subject: Re: DL380 G2 - CCISS
Posted by gramsa49 on Sat, 17 Feb 2007 02:18:09 GMT
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Here are the results of the reinstall. Still get the warning that the cciss module does not exist

when installing the openvz kernel. I need the cciss driver to use my tape drive.

0-Install CentOS 4.4
 from /var/log/messages
  Feb 16 18:40:10 vz1 syslogd 1.4.1: restart.
  Feb 16 18:40:10 vz1 syslog: syslogd startup succeeded
  Feb 16 18:40:10 vz1 kernel: klogd 1.4.1, log source = /proc/kmsg started.
  Feb 16 18:40:10 vz1 kernel: Linux version 2.6.9-42.ELsmp (buildcentos@build-i386) (gcc version 3.4.6 20060404 (Red Hat 3.4.6-3)) #1 SMP Sat Aug 12 09:39:11 CDT 2006
  Feb 16 18:40:10 vz1 kernel: BIOS-provided physical RAM map:
  Feb 16 18:40:10 vz1 kernel: BIOS-e820: 0000000000000000 - 000000000009ec00 (usable)
  Feb 16 18:40:10 vz1 kernel: BIOS-e820: 000000000009ec00 - 00000000000a0000 (reserved)
  Feb 16 18:40:10 vz1 kernel: BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)
  Feb 16 18:40:10 vz1 kernel: BIOS-e820: 0000000000100000 - 000000008fffc000 (usable)
  Feb 16 18:40:10 vz1 kernel: BIOS-e820: 000000008fffc000 - 0000000090000000 (ACPI data)
  Feb 16 18:40:10 vz1 kernel: BIOS-e820: 00000000fec00000 - 00000000fec10000 (reserved)
  Feb 16 18:40:10 vz1 kernel: BIOS-e820: 00000000fee00000 - 00000000fee10000 (reserved)
  Feb 16 18:40:10 vz1 kernel: BIOS-e820: 00000000ffc00000 - 0000000100000000 (reserved)
  Feb 16 18:40:10 vz1 kernel: 1407MB HIGHMEM available.
  Feb 16 18:40:10 vz1 kernel: 896MB LOWMEM available.
  Feb 16 18:40:10 vz1 kernel: found SMP MP-table at 000f4fd0
  Feb 16 18:40:10 vz1 kernel: Using x86 segment limits to approximate NX protection
  Feb 16 18:40:10 vz1 syslog: klogd startup succeeded
  Feb 16 18:40:10 vz1 kernel: DMI 2.3 present.
  Feb 16 18:40:10 vz1 kernel: Compaq ProLiant DL380 G2 detected: force use of acpi=ht
  Feb 16 18:40:10 vz1 kernel: Using APIC driver default
  Feb 16 18:40:10 vz1 kernel: ACPI: PM-Timer IO Port: 0x240
  Feb 16 18:40:10 vz1 kernel: ACPI: LAPIC (acpi_id[0x00] lapic_id[0x00] enabled)
  Feb 16 18:40:10 vz1 kernel: Processor #0 6:11 APIC version 17
  Feb 16 18:40:10 vz1 kernel: ACPI: LAPIC (acpi_id[0x01] lapic_id[0x01] disabled)
  Feb 16 18:40:10 vz1 kernel: ACPI: LAPIC (acpi_id[0x02] lapic_id[0x02] disabled)
  Feb 16 18:40:10 vz1 kernel: ACPI: LAPIC (acpi_id[0x03] lapic_id[0x03] enabled)
  Feb 16 18:40:10 vz1 kernel: Processor #3 6:11 APIC version 17
  Feb 16 18:40:10 vz1 kernel: ACPI: LAPIC_NMI (acpi_id[0xff] dfl dfl lint[0x1])
  Feb 16 18:40:10 vz1 kernel: Enabling APIC mode: Flat. Using 0 I/O APICs
  Feb 16 18:40:10 vz1 kernel: Using ACPI for processor (LAPIC) configuration information
  Feb 16 18:40:10 vz1 kernel: Intel MultiProcessor Specification v1.4
  Feb 16 18:40:10 vz1 kernel: Virtual Wire compatibility mode.
  Feb 16 18:40:10 vz1 kernel: OEM ID: COMPAQ   Product ID: PROLIANT   APIC at: 0xFEE00000
  Feb 16 18:40:10 vz1 kernel: I/O APIC #8 Version 17 at 0xFEC00000.
  Feb 16 18:40:10 vz1 kernel: I/O APIC #2 Version 17 at 0xFEC01000.
  Feb 16 18:40:10 vz1 kernel: Enabling APIC mode: Flat. Using 2 I/O APICs
  Feb 16 18:40:10 vz1 kernel: Processors: 2
  Feb 16 18:40:10 vz1 kernel: Allocating PCI resources starting at 98000000 (gap: 90000000:6ec00000)
  Feb 16 18:40:10 vz1 kernel: Built 1 zonelists
  Feb 16 18:40:10 vz1 kernel: Kernel command line: ro root=/dev/VolGroup00/LogVol00

Feb 16 18:40:10 vz1 kernel: Initializing CPU#0
Feb 16 18:40:10 vz1 kernel: CPU 0 irqstacks, hard=c03ee000 soft=c03ce000
Feb 16 18:40:10 vz1 kernel: PID hash table entries: 4096 (order: 12, 65536 bytes)
Feb 16 18:40:10 vz1 kernel: Detected 1397.241 MHz processor.
Feb 16 18:40:10 vz1 kernel: Using pmtmr for high-res timesource
Feb 16 18:40:10 vz1 kernel: Console: colour VGA+ 80x25
Feb 16 18:40:10 vz1 kernel: Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
Feb 16 18:40:10 vz1 kernel: Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
Feb 16 18:40:10 vz1 kernel: Memory: 2333144k/2359280k available (1876k kernel code, 25112k reserved, 759k data, 184k init, 1441776k highmem)
Feb 16 18:40:10 vz1 kernel: Calibrating delay using timer specific routine.. 2796.70 BogoMIPS (lpj=1398354)
Feb 16 18:40:10 vz1 kernel: Security Scaffold v1.0.0 initialized
Feb 16 18:40:10 vz1 kernel: SELinux: Initializing.
Feb 16 18:40:10 vz1 kernel: SELinux: Starting in permissive mode
Feb 16 18:40:10 vz1 kernel: There is already a security framework initialized, register_security failed.
Feb 16 18:40:10 vz1 kernel: selinux_register_security: Registering secondary module capability
Feb 16 18:40:10 vz1 kernel: Capability LSM initialized as secondary
Feb 16 18:40:10 vz1 kernel: Mount-cache hash table entries: 512 (order: 0, 4096 bytes)
Feb 16 18:40:10 vz1 kernel: CPU: L1 I cache: 16K, L1 D cache: 16K
Feb 16 18:40:10 vz1 kernel: CPU: L2 cache: 512K
Feb 16 18:40:10 vz1 kernel: Intel machine check architecture supported.
Feb 16 18:40:10 vz1 kernel: Intel machine check reporting enabled on CPU#0.
Feb 16 18:40:10 vz1 kernel: Enabling fast FPU save and restore... done.
Feb 16 18:40:10 vz1 kernel: Enabling unmasked SIMD FPU exception support... done.
Feb 16 18:40:10 vz1 kernel: Checking 'hlt' instruction... OK.
Feb 16 18:40:10 vz1 kernel: CPU0: Intel(R) Pentium(R) III CPU family   1400MHz stepping 01
Feb 16 18:40:10 vz1 kernel: per-CPU timeslice cutoff: 1462.58 usecs.
Feb 16 18:40:10 vz1 kernel: task migration cache decay timeout: 2 msecs.
Feb 16 18:40:10 vz1 kernel: Booting processor 1/0 eip 3000
Feb 16 18:40:10 vz1 kernel: CPU 1 irqstacks, hard=c03ef000 soft=c03cf000
Feb 16 18:40:10 vz1 kernel: Initializing CPU#1
Feb 16 18:40:10 vz1 kernel: Calibrating delay using timer specific routine.. 2792.55 BogoMIPS (lpj=1396277)
Feb 16 18:40:10 vz1 kernel: CPU: L1 I cache: 16K, L1 D cache: 16K
Feb 16 18:40:10 vz1 kernel: CPU: L2 cache: 512K
Feb 16 18:40:10 vz1 kernel: Intel machine check architecture supported.
Feb 16 18:40:10 vz1 kernel: Intel machine check reporting enabled on CPU#1.
Feb 16 18:40:10 vz1 kernel: CPU1: Intel(R) Pentium(R) III CPU family   1400MHz stepping 01
Feb 16 18:40:10 vz1 kernel: Total of 2 processors activated (5589.26 BogoMIPS).
Feb 16 18:40:10 vz1 kernel: ENABLING IO-APIC IRQs
Feb 16 18:40:10 vz1 kernel: ..TIMER: vector=0x31 pin1=2 pin2=0
Feb 16 18:40:10 vz1 kernel: ..MP-BIOS bug: 8254 timer not connected to IO-APIC
Feb 16 18:40:10 vz1 kernel: ...trying to set up timer (IRQ0) through the 8259A ...
Feb 16 18:40:10 vz1 kernel: ..... (found pin 0) ...works.
Feb 16 18:40:10 vz1 kernel: checking TSC synchronization across 2 CPUs: passed.
Feb 16 18:40:10 vz1 kernel: Brought up 2 CPUs

Feb 16 18:40:10 vz1 kernel: zapping low mappings.
Feb 16 18:40:10 vz1 kernel: checking if image is initramfs... it is
Feb 16 18:40:10 vz1 kernel: Freeing initrd memory: 1097k freed
Feb 16 18:40:10 vz1 kernel: NET: Registered protocol family 16
Feb 16 18:40:10 vz1 kernel: PCI: PCI BIOS revision 2.10 entry at 0xf0094, last bus=10
Feb 16 18:40:10 vz1 kernel: PCI: Using configuration type 1
Feb 16 18:40:10 vz1 kernel: mtrr: v2.0 (20020519)
Feb 16 18:40:10 vz1 kernel: mtrr: your CPUs had inconsistent fixed MTRR settings
Feb 16 18:40:10 vz1 kernel: mtrr: probably your BIOS does not setup all CPUs.
Feb 16 18:40:10 vz1 kernel: mtrr: corrected configuration.
Feb 16 18:40:10 vz1 kernel: ACPI: Subsystem revision 20040816
Feb 16 18:40:10 vz1 kernel: ACPI: Interpreter disabled.
Feb 16 18:40:10 vz1 kernel: Linux Plug and Play Support v0.97 (c) Adam Belay
Feb 16 18:40:10 vz1 kernel: usbcore: registered new driver usbfs
Feb 16 18:40:10 vz1 kernel: usbcore: registered new driver hub
Feb 16 18:40:10 vz1 kernel: PCI: Probing PCI hardware
Feb 16 18:40:10 vz1 kernel: PCI: Probing PCI hardware (bus 00)
Feb 16 18:40:10 vz1 kernel: PCI: Discovered peer bus 07
Feb 16 18:40:10 vz1 kernel: PCI: Device 00:00 not found by BIOS
Feb 16 18:40:10 vz1 kernel: PCI: Device 00:01 not found by BIOS
Feb 16 18:40:10 vz1 kernel: PCI: Device 00:02 not found by BIOS
Feb 16 18:40:10 vz1 kernel: PCI: Device 00:03 not found by BIOS
Feb 16 18:40:10 vz1 kernel: PCI: Device 00:78 not found by BIOS
Feb 16 18:40:10 vz1 kernel: apm: BIOS not found.
Feb 16 18:40:10 vz1 kernel: audit: initializing netlink socket (disabled)
Feb 16 18:40:10 vz1 kernel: audit(1171651188.085:1): initialized
Feb 16 18:40:10 vz1 kernel: highmem bounce pool size: 64 pages
Feb 16 18:40:10 vz1 kernel: Total HugeTLB memory allocated, 0
Feb 16 18:40:10 vz1 kernel: VFS: Disk quotas dquot_6.5.1
Feb 16 18:40:10 vz1 kernel: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
Feb 16 18:40:10 vz1 kernel: SELinux: Registering netfilter hooks
Feb 16 18:40:10 vz1 kernel: Initializing Cryptographic API
Feb 16 18:40:10 vz1 kernel: ksign: Installing public key data
Feb 16 18:40:10 vz1 kernel: Loading keyring
Feb 16 18:40:10 vz1 kernel: - Added public key 10EA8AC2C8019830
Feb 16 18:40:10 vz1 kernel: - User ID: CentOS (Kernel Module GPG key)
Feb 16 18:40:10 vz1 kernel: pci_hotplug: PCI Hot Plug PCI Core version: 0.5
Feb 16 18:40:10 vz1 kernel: Real Time Clock Driver v1.12
Feb 16 18:40:10 vz1 kernel: Linux agpgart interface v0.100 (c) Dave Jones
Feb 16 18:40:10 vz1 kernel: agpgart: Maximum main memory to use for agp memory: 2170M
Feb 16 18:40:10 vz1 kernel: agpgart: unable to determine aperture size.
Feb 16 18:40:10 vz1 kernel: agpgart: agp_backend_initialize() failed.
Feb 16 18:40:10 vz1 kernel: agpgart-serverworks: probe of 0000:00:00.0 failed with error -22
Feb 16 18:40:10 vz1 kernel: agpgart: Maximum main memory to use for agp memory: 2170M
Feb 16 18:40:10 vz1 kernel: agpgart: unable to determine aperture size.
Feb 16 18:40:10 vz1 kernel: agpgart: agp_backend_initialize() failed.
Feb 16 18:40:10 vz1 kernel: agpgart-serverworks: probe of 0000:00:00.1 failed with error -22
Feb 16 18:40:10 vz1 kernel: agpgart: Detected ServerWorks CNB20HE chipset: No AGP

present.
Feb 16 18:40:10 vz1 kernel: agpgart: Detected ServerWorks CNB20HE chipset: No AGP present.
Feb 16 18:40:10 vz1 kernel: serio: i8042 AUX port at 0x60,0x64 irq 12
Feb 16 18:40:10 vz1 kernel: serio: i8042 KBD port at 0x60,0x64 irq 1
Feb 16 18:40:10 vz1 kernel: Serial: 8250/16550 driver $Revision: 1.90 $ 8 ports, IRQ sharing enabled
Feb 16 18:40:10 vz1 kernel: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
Feb 16 18:40:10 vz1 kernel: RAMDISK driver initialized: 16 RAM disks of 16384K size 1024 blocksize
Feb 16 18:40:10 vz1 irqbalance: irqbalance startup succeeded
Feb 16 18:40:10 vz1 kernel: Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
Feb 16 18:40:10 vz1 kernel: ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
Feb 16 18:40:10 vz1 kernel: SvrWks OSB4: IDE controller at PCI slot 0000:00:0f.1
Feb 16 18:40:10 vz1 kernel: SvrWks OSB4: chipset revision 0
Feb 16 18:40:10 vz1 kernel: SvrWks OSB4: not 100% native mode: will probe irqs later
Feb 16 18:40:10 vz1 kernel: ide0: BM-DMA at 0x2c00-0x2c07, BIOS settings: hda:pio, hdb:pio
Feb 16 18:40:10 vz1 kernel: ide1: BM-DMA at 0x2c08-0x2c0f, BIOS settings: hdc:pio, hdd:pio
Feb 16 18:40:10 vz1 kernel: hda: COMPAQ CD-ROM SN-124Q, ATAPI CD/DVD-ROM drive
Feb 16 18:40:10 vz1 kernel: Using cfq io scheduler
Feb 16 18:40:10 vz1 kernel: ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
Feb 16 18:40:10 vz1 kernel: hda: ATAPI 24X CD-ROM drive, 128kB Cache
Feb 16 18:40:10 vz1 kernel: Uniform CD-ROM driver Revision: 3.20
Feb 16 18:40:10 vz1 kernel: ide-floppy driver 0.99.newide
Feb 16 18:40:10 vz1 kernel: usbcore: registered new driver hiddev
Feb 16 18:40:10 vz1 kernel: usbcore: registered new driver usbhid
Feb 16 18:40:10 vz1 kernel: drivers/usb/input/hid-core.c: v2.0:USB HID core driver
Feb 16 18:40:10 vz1 kernel: mice: PS/2 mouse device common for all mice
Feb 16 18:40:10 vz1 kernel: input: AT Translated Set 2 keyboard on isa0060/serio0
Feb 16 18:40:10 vz1 kernel: input: ImPS/2 Generic Wheel Mouse on isa0060/serio1
Feb 16 18:40:10 vz1 kernel: md: md driver 0.90.0 MAX_MD_DEVS=256, MD_SB_DISKS=27
Feb 16 18:40:10 vz1 kernel: NET: Registered protocol family 2
Feb 16 18:40:10 vz1 kernel: IP route cache hash table entries: 131072 (order: 7, 524288 bytes)
Feb 16 18:40:10 vz1 kernel: TCP established hash table entries: 262144 (order: 10, 4194304 bytes)
Feb 16 18:40:10 vz1 kernel: TCP bind hash table entries: 262144 (order: 9, 3145728 bytes)
Feb 16 18:40:10 vz1 kernel: TCP: Hash tables configured (established 262144 bind 262144)
Feb 16 18:40:10 vz1 kernel: Initializing IPsec netlink socket
Feb 16 18:40:10 vz1 kernel: NET: Registered protocol family 1
Feb 16 18:40:10 vz1 kernel: NET: Registered protocol family 17
Feb 16 18:40:10 vz1 kernel: Freeing unused kernel memory: 184k freed
Feb 16 18:40:10 vz1 kernel: SCSI subsystem initialized
Feb 16 18:40:10 vz1 kernel: HP CISS Driver (v 2.6.10.RH1)
Feb 16 18:40:10 vz1 kernel: cciss: using DAC cycles
Feb 16 18:40:10 vz1 kernel: cciss: using DAC cycles
Feb 16 18:40:10 vz1 kernel: blocks= 284522880 block_size= 512
Feb 16 18:40:10 vz1 kernel: heads= 255, sectors= 32, cylinders= 34868

Feb 16 18:40:10 vz1 kernel:
Feb 16 18:40:10 vz1 kernel: blocks= 284522880 block_size= 512
Feb 16 18:40:10 vz1 kernel: heads= 255, sectors= 32, cylinders= 34868
Feb 16 18:40:10 vz1 kernel:
Feb 16 18:40:10 vz1 kernel: cciss/c1d0: p1 p2
Feb 16 18:40:10 vz1 kernel: device-mapper: 4.5.0-ioctl (2005-10-04) initialised: dm-devel@redhat.com
Feb 16 18:40:10 vz1 kernel: kjournald starting. Commit interval 5 seconds
Feb 16 18:40:10 vz1 kernel: EXT3-fs: mounted filesystem with ordered data mode.
Feb 16 18:40:10 vz1 kernel: SELinux: Disabled at runtime.
Feb 16 18:40:10 vz1 kernel: SELinux: Unregistering netfilter hooks
Feb 16 18:40:10 vz1 kernel: inserting floppy driver for 2.6.9-42.ELsmp
Feb 16 18:40:10 vz1 kernel: Floppy drive(s): fd0 is 1.44M
Feb 16 18:40:10 vz1 kernel: FDC 0 is a National Semiconductor PC87306
Feb 16 18:40:10 vz1 kernel: e100: Intel(R) PRO/100 Network Driver, 3.5.10-k2-NAPI
Feb 16 18:40:10 vz1 kernel: e100: Copyright(c) 1999-2005 Intel Corporation
Feb 16 18:40:10 vz1 kernel: e100: eth0: e100_probe: addr 0xf7cb0000, irq 5, MAC addr 00:08:02:25:2E:F3
Feb 16 18:40:10 vz1 kernel: e100: eth1: e100_probe: addr 0xf7af0000, irq 7, MAC addr 00:08:02:25:2E:F2
Feb 16 18:40:10 vz1 kernel: ohci_hcd 0000:00:0f.2: OHCI Host Controller
Feb 16 18:40:10 vz1 kernel: ohci_hcd 0000:00:0f.2: irq 11, pci mem f8892000
Feb 16 18:40:10 vz1 kernel: ohci_hcd 0000:00:0f.2: new USB bus registered, assigned bus number 1
Feb 16 18:40:10 vz1 kernel: hub 1-0:1.0: USB hub found
Feb 16 18:40:10 vz1 kernel: hub 1-0:1.0: 4 ports detected
Feb 16 18:40:10 vz1 kernel: md: Autodetecting RAID arrays.
Feb 16 18:40:10 vz1 kernel: md: autorun ...
Feb 16 18:40:10 vz1 kernel: md: ... autorun DONE.
Feb 16 18:40:10 vz1 kernel: EXT3 FS on dm-0, internal journal
Feb 16 18:40:10 vz1 kernel: kjournald starting. Commit interval 5 seconds
Feb 16 18:40:10 vz1 kernel: EXT3 FS on cciss/c1d0p1, internal journal
Feb 16 18:40:10 vz1 kernel: EXT3-fs: mounted filesystem with ordered data mode.
Feb 16 18:40:10 vz1 kernel: Adding 2031608k swap on /dev/VolGroup00/LogVol01. Priority:-1 extents:1
Feb 16 18:40:10 vz1 kernel: IA-32 Microcode Update Driver: v1.14 <tigran@veritas.com>
Feb 16 18:40:10 vz1 kernel: microcode: CPU0 already at revision 0x1c (current=0x1c)
Feb 16 18:40:10 vz1 kernel: microcode: CPU1 already at revision 0x1c (current=0x1c)
Feb 16 18:40:10 vz1 kernel: microcode: No new microdata for cpu 1
Feb 16 18:40:10 vz1 kernel: microcode: No new microdata for cpu 0
Feb 16 18:40:10 vz1 kernel: IA-32 Microcode Update Driver v1.14 unregistered
Feb 16 18:40:10 vz1 kernel: ip_tables: (C) 2000-2002 Netfilter core team
Feb 16 18:40:10 vz1 kernel: ip_conntrack version 2.1 (8192 buckets, 65536 max) - 340 bytes per conntrack
Feb 16 18:40:10 vz1 kernel: e100: eth0: e100_watchdog: link up, 100Mbps, full-duplex
Feb 16 18:40:10 vz1 portmap: portmap startup succeeded
Feb 16 18:40:10 vz1 rpc.statd[2094]: Version 1.0.6 Starting
Feb 16 18:40:10 vz1 nfslock: rpc.statd startup succeeded

Feb 16 18:40:10 vz1 rpc.statd[2094]: statd running as root. chown /var/lib/nfs/statd/sm to choose different user
Feb 16 18:40:11 vz1 rpcidmapd: rpc.idmapd startup succeeded
Feb 16 18:40:11 vz1 netfs: Mounting other filesystems: succeeded
Feb 16 18:40:11 vz1 autofs: automount startup succeeded
Feb 16 18:40:04 vz1 kudzu: succeeded
Feb 16 18:40:04 vz1 iptables: succeeded
Feb 16 18:40:04 vz1 rc: Starting pcmcia: succeeded
Feb 16 18:40:04 vz1 sysctl: net.ipv4.ip_forward = 0
Feb 16 18:40:04 vz1 sysctl: net.ipv4.conf.default.rp_filter = 1
Feb 16 18:40:04 vz1 sysctl: net.ipv4.conf.default.accept_source_route = 0
Feb 16 18:40:04 vz1 sysctl: kernel.sysrq = 0
Feb 16 18:40:04 vz1 sysctl: kernel.core_uses_pid = 1
Feb 16 18:40:04 vz1 network: Setting network parameters: succeeded
Feb 16 18:40:04 vz1 network: Bringing up loopback interface: succeeded
Feb 16 18:40:05 vz1 ifup:
Feb 16 18:40:05 vz1 ifup: Determining IP information for eth0...
Feb 16 18:40:05 vz1 dhclient: DHCPDISCOVER on eth0 to 255.255.255.255 port 67 interval 5
Feb 16 18:40:10 vz1 dhclient: DHCPDISCOVER on eth0 to 255.255.255.255 port 67 interval 12
Feb 16 18:40:10 vz1 dhclient: DHCPOFFER from 10.107.208.1
Feb 16 18:40:10 vz1 dhclient: DHCPREQUEST on eth0 to 255.255.255.255 port 67
Feb 16 18:40:10 vz1 dhclient: DHCPACK from 10.107.208.1
Feb 16 18:40:10 vz1 NET: /sbin/dhclient-script : updated /etc/resolv.conf
Feb 16 18:40:10 vz1 dhclient: bound to 10.107.208.110 -- renewal in 17827 seconds.
Feb 16 18:40:10 vz1 ifup: done.
Feb 16 18:40:10 vz1 network: Bringing up interface eth0: succeeded
Feb 16 18:40:13 vz1 smartd[2189]: smartd version 5.33 [i686-redhat-linux-gnu] Copyright (C) 2002-4 Bruce Allen
Feb 16 18:40:13 vz1 smartd[2189]: Home page is http://smartmontools.sourceforge.net/
Feb 16 18:40:13 vz1 smartd[2189]: Opened configuration file /etc/smartd.conf
Feb 16 18:40:13 vz1 smartd[2189]: Configuration file /etc/smartd.conf parsed but has no entries (like /dev/hda)
Feb 16 18:40:13 vz1 smartd[2189]: Unable to monitor any SMART enabled devices. Try debug (-d) option. Exiting...
Feb 16 18:40:13 vz1 smartd: smartd startup failed
Feb 16 18:40:14 vz1 kernel: lp: driver loaded but no devices found
Feb 16 18:40:14 vz1 cups: cupsd startup succeeded
Feb 16 18:40:14 vz1 sshd: RSA1 key generation succeeded
Feb 16 18:40:15 vz1 sshd: RSA key generation succeeded
Feb 16 18:40:20 vz1 sshd: DSA key generation succeeded
Feb 16 18:40:20 vz1 kernel: NET: Registered protocol family 10
Feb 16 18:40:20 vz1 kernel: Disabled Privacy Extensions on device c0344160(lo)
Feb 16 18:40:20 vz1 kernel: IPv6 over IPv4 tunneling driver
Feb 16 18:40:20 vz1 sshd: succeeded
Feb 16 18:40:20 vz1 xinetd: xinetd startup succeeded
Feb 16 18:40:20 vz1 xinetd[2294]: xinetd Version 2.3.13 started with libwrap loadavg options compiled in.
Feb 16 18:40:20 vz1 xinetd[2294]: Started working: 0 available services

Feb 16 18:40:20 vz1 sendmail: sendmail startup succeeded
Feb 16 18:40:21 vz1 sendmail: sm-client startup succeeded
Feb 16 18:40:21 vz1 gpm[2331]: *** info [startup.c(95)]:
Feb 16 18:40:21 vz1 gpm[2331]: Started gpm successfully. Entered daemon mode.
Feb 16 18:40:21 vz1 gpm[2331]: *** info [mice.c(1766)]:
Feb 16 18:40:21 vz1 gpm[2331]: imps2: Auto-detected intellimouse PS/2
Feb 16 18:40:21 vz1 gpm: gpm startup succeeded
Feb 16 18:40:21 vz1 crond: crond startup succeeded
Feb 16 18:40:24 vz1 xfs: xfs startup succeeded
Feb 16 18:40:24 vz1 xfs[2368]: ignoring font path element /usr/X11R6/lib/X11/fonts/misc:unscaled (unreadable)
Feb 16 18:40:24 vz1 xfs[2368]: ignoring font path element /usr/X11R6/lib/X11/fonts/100dpi:unscaled (unreadable)
Feb 16 18:40:24 vz1 xfs[2368]: ignoring font path element /usr/X11R6/lib/X11/fonts/Type1 (unreadable)
Feb 16 18:40:24 vz1 anacron: anacron startup succeeded
Feb 16 18:40:24 vz1 atd: atd startup succeeded
Feb 16 18:40:24 vz1 messagebus: messagebus startup succeeded
Feb 16 18:40:24 vz1 cups-config-daemon: cups-config-daemon startup succeeded
Feb 16 18:40:24 vz1 haldaemon: haldaemon startup succeeded
Feb 16 18:40:25 vz1 fstab-sync[2967]: removed all generated mount points
Feb 16 18:40:26 vz1 fstab-sync[3007]: added mount point /media/cdrom for /dev/hda
Feb 16 18:40:26 vz1 fstab-sync[3058]: added mount point /media/floppy for /dev/fd0

1-Run yum update

```
================================================================================
 Package              Arch       Version          Repository       Size
================================================================================
Installing:
 kernel               i686       2.6.9-42.0.8.EL  update           11 M
 kernel-devel         i686       2.6.9-42.0.8.EL  update          3.7 M
 kernel-smp           i686       2.6.9-42.0.8.EL  update           10 M
Updating:
 bind-libs            i386       20:9.2.4-24.EL4  update          565 k
 bind-utils           i386       20:9.2.4-24.EL4  update          141 k
 dbus                 i386       0.22-12.EL.8     update          455 k
 dbus-devel           i386       0.22-12.EL.8     update          228 k
 dbus-glib            i386       0.22-12.EL.8     update           38 k
 elinks               i386       0.9.2-3.3        update          839 k
 fetchmail            i386       6.2.5-6.el4.5    update          572 k
 gnupg                i386       1.2.6-8          update          1.6 M
 gtk2                 i386       2.4.13-22        update          4.3 M
 gzip                 i386       1.3.3-16.rhel4   update           88 k
 hwdata               noarch     0.146.23.EL-1    update          337 k
 info                 i386       4.7-5.el4.2      update          145 k
 iproute              i386       2.6.9-3.EL4.3.centos4  update    932 k
```

```
 kernel-hugemem-devel    i686       2.6.9-42.0.8.EL  update          3.7 M
 kernel-smp-devel        i686       2.6.9-42.0.8.EL  update          3.7 M
 nss_ldap                i386       226-17           update          1.0 M
 openssh                 i386       3.9p1-8.RHEL4.17.1  update       317 k
 openssh-clients         i386       3.9p1-8.RHEL4.17.1  update       341 k
 openssh-server          i386       3.9p1-8.RHEL4.17.1  update       208 k
 openssl                 i686       0.9.7a-43.14     update          1.1 M
 openssl-devel           i586       0.9.7a-43.14     update          1.6 M
 python                  i386       2.3.4-14.3       update          4.8 M
 python-devel            i386       2.3.4-14.3       update          1.4 M
 qt                      i386       1:3.3.3-10.RHEL4  update         2.9 M
 sysreport               noarch     1.3.15-8         update          18 k
 tar                     i386       1.14-12.RHEL4    update          334 k
 texinfo                 i386       4.7-5.el4.2      update          743 k
 tzdata                  noarch     2006m-3.el4      update          444 k
 up2date                 i386       4.4.69-25.centos4.7  update      1.8 M
 xorg-x11-Mesa-libGL     i386       6.8.2-1.EL.13.37.5  update       379 k
 xorg-x11-font-utils     i386       6.8.2-1.EL.13.37.5  update       302 k
 xorg-x11-libs           i386       6.8.2-1.EL.13.37.5  update       2.7 M
 xorg-x11-xfs            i386       6.8.2-1.EL.13.37.5  update       315 k

 Transaction Summary
 ================================================================================
 Install      3 Package(s)
 Update      33 Package(s)
 Remove       0 Package(s)
 Total download size: 63 M
```

2-Disable unneeded services

```
 [root@vz1 ~]# chkconfig rpcidmapd off
 [root@vz1 ~]# chkconfig pcmcia off
 [root@vz1 ~]# chkconfig xinetd off
 [root@vz1 ~]# chkconfig netfs off
 [root@vz1 ~]# chkconfig apmd off
 [root@vz1 ~]# chkconfig portmap off
 [root@vz1 ~]# chkconfig nfslock off
 [root@vz1 ~]# chkconfig isdn off
 [root@vz1 ~]# chkconfig rpcgssd off
 [root@vz1 ~]# chkconfig openibd off
 [root@vz1 ~]# chkconfig gpm off
 [root@vz1 ~]# chkconfig mdmonitor off
 [root@vz1 ~]# chkconfig xfs off
```

3-Network settings

a-configure bonding

* update /etc/modprobe.conf, add the following lines

alias bond0 bonding
options bond0 mode=0 miimon=100
* create /etc/sysconfig/network-scripts/ifcfg-bond0
[root@vz1 ~]# cat ifcfg-bond0
DEVICE=bond0
IPADDR=10.107.208.150
NETWORK=10.107.208.0
NETMASK=255.255.255.0
BROADCAST=10.107.108.255
USERCTL=no
BOOTPROTO=dhcp
ONBOOT=yes
* update /etc/sysconfig/network-scripts/ifcfg-eth0
[root@vz1 ~]# cat ifcfg-eth0
DEVICE=eth0
USERCTL=no
ONBOOT=yes
MASTER=bond0
BOOTPROTO=none
SLAVE=yes
* update /etc/sysconfig/network-scripts/ifcfg-eth1
[root@vz1 ~]# cat ifcfg-eth1
DEVICE=eth1
USERCTL=no
MASTER=bond0
ONBOOT=yes
BOOTPROTO=none
SLAVE=yes

4-Server Settings
a-ntp
[root@vz1 ~]# yum install ntp
[root@vz1 ~]# chkconfig --level 2345 ntpd on
<update /etc/ntp.conf to use our server>
server 10.107.208.1
b-sendmail
[root@vz1 ~]# diff -u /etc/aliases.orig /etc/aliases
--- /etc/aliases.orig 2007-02-xxx
+++ /etc/aliases 2007-02-xxx
@@ -97,4 +97,4 @@
decode: root

Person who should get root's mail
-#root: marc
+root: xxxx
[root@vz1 ~]# newaliases

5-Install openvz

a-kernel
[root@vz1 ~]# cd /etc/yum.repos.d
[root@vz1 ~]# wget http://download.openvz.org/openvz.repo
[root@vz1 ~]# rpm --import http://download.openvz.org/RPM-GPG-Key-OpenVZ
[root@vz1 ~]# yum install ovzkernel-smp

```
================================================================================
 Package              Arch       Version          Repository       Size
================================================================================
Installing:
 ovzkernel-smp        i686       2.6.9-023stab040.1  openvz           13 M
...
WARNING: No module cciss found for kernel 2.6.9-023stab040.1-smp, continuing anyway
```

<update /boot/grub/cosmetic only, rename CentOS to OpenVZ for grub menu>
<update /etc/sysctl.conf>
[root@vz1 ~]# diff -u /etc/sysctl.conf.original /etc/sysctl.conf

```
--- /etc/sysctl.conf.original   2007-02-11 23:29:58.000000000 -0500
+++ /etc/sysctl.conf    2007-02-11 23:31:15.000000000 -0500
@@ -4,7 +4,8 @@
 # sysctl.conf(5) for more details.

 # Controls IP packet forwarding
-net.ipv4.ip_forward = 0
+net.ipv4.ip_forward = 1
+net.ipv4.conf.default.proxy_arp = 0

 # Controls source route verification
 net.ipv4.conf.default.rp_filter = 1
@@ -13,8 +14,14 @@
 net.ipv4.conf.default.accept_source_route = 0

 # Controls the System Request debugging functionality of the kernel
-kernel.sysrq = 0
+kernel.sysrq = 1

 # Controls whether core dumps will append the PID to the core filename.
 # Useful for debugging multi-threaded applications.
 kernel.core_uses_pid = 1
+
++# TCP Explict Congestion Notification
++#net.ipv4.tcp_ecn = 0
++# we do not want all our interfaces to send redirects
++net.ipv4.conf.default.send_redirects = 1
++net.ipv4.conf.all.send_redirects = 0
```

<update /etc/modprobe.conf - add line>
options ip_conntrack ip_conntrack_enable_ve0=1
b-reboot into vz kernel

from /var/log/messages
Feb 16 19:21:07 vz1 syslogd 1.4.1: restart.
Feb 16 19:21:07 vz1 syslog: syslogd startup succeeded
Feb 16 19:21:07 vz1 kernel: klogd 1.4.1, log source = /proc/kmsg started.
Feb 16 19:21:07 vz1 kernel: Linux version 2.6.9-023stab040.1-smp (root@rhel4-32) (gcc version 3.4.5 20051201 (Red Hat 3.4.5-2)) #1 SMP Tue Jan 16 00:54:22 MSK 2007
Feb 16 19:21:07 vz1 kernel: BIOS-provided physical RAM map:
Feb 16 19:21:07 vz1 kernel: BIOS-e820: 0000000000000000 - 000000000009ec00 (usable)
Feb 16 19:21:07 vz1 kernel: BIOS-e820: 000000000009ec00 - 00000000000a0000 (reserved)
Feb 16 19:21:07 vz1 kernel: BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)
Feb 16 19:21:07 vz1 kernel: BIOS-e820: 0000000000100000 - 000000008fffc000 (usable)
Feb 16 19:21:07 vz1 kernel: BIOS-e820: 000000008fffc000 - 0000000090000000 (ACPI data)
Feb 16 19:21:07 vz1 kernel: BIOS-e820: 00000000fec00000 - 00000000fec10000 (reserved)
Feb 16 19:21:07 vz1 kernel: BIOS-e820: 00000000fee00000 - 00000000fee10000 (reserved)
Feb 16 19:21:07 vz1 kernel: BIOS-e820: 00000000ffc00000 - 0000000100000000 (reserved)
Feb 16 19:21:07 vz1 kernel: 1407MB HIGHMEM available.
Feb 16 19:21:07 vz1 kernel: 896MB LOWMEM available.
Feb 16 19:21:07 vz1 syslog: klogd startup succeeded
Feb 16 19:21:07 vz1 kernel: found SMP MP-table at 000f4fd0
Feb 16 19:21:07 vz1 kernel: Using x86 segment limits to approximate NX protection
Feb 16 19:21:07 vz1 kernel: DMI 2.3 present.
Feb 16 19:21:07 vz1 kernel: Compaq ProLiant DL380 G2 detected: force use of acpi=ht
Feb 16 19:21:07 vz1 kernel: Using APIC driver default
Feb 16 19:21:07 vz1 kernel: ACPI: PM-Timer IO Port: 0x240
Feb 16 19:21:07 vz1 kernel: ACPI: LAPIC (acpi_id[0x00] lapic_id[0x00] enabled)
Feb 16 19:21:07 vz1 kernel: Processor #0 6:11 APIC version 17
Feb 16 19:21:07 vz1 kernel: ACPI: LAPIC (acpi_id[0x01] lapic_id[0x01] disabled)
Feb 16 19:21:07 vz1 kernel: ACPI: LAPIC (acpi_id[0x02] lapic_id[0x02] disabled)
Feb 16 19:21:07 vz1 kernel: ACPI: LAPIC (acpi_id[0x03] lapic_id[0x03] enabled)
Feb 16 19:21:07 vz1 kernel: Processor #3 6:11 APIC version 17
Feb 16 19:21:07 vz1 kernel: ACPI: LAPIC_NMI (acpi_id[0xff] dfl dfl lint[0x1])
Feb 16 19:21:07 vz1 kernel: Enabling APIC mode: Flat. Using 0 I/O APICs
Feb 16 19:21:07 vz1 kernel: Using ACPI for processor (LAPIC) configuration information
Feb 16 19:21:07 vz1 kernel: Intel MultiProcessor Specification v1.4
Feb 16 19:21:07 vz1 kernel: Virtual Wire compatibility mode.
Feb 16 19:21:07 vz1 kernel: OEM ID: COMPAQ   Product ID: PROLIANT   APIC at: 0xFEE00000
Feb 16 19:21:07 vz1 kernel: I/O APIC #8 Version 17 at 0xFEC00000.
Feb 16 19:21:07 vz1 kernel: I/O APIC #2 Version 17 at 0xFEC01000.
Feb 16 19:21:07 vz1 kernel: Enabling APIC mode: Flat. Using 2 I/O APICs
Feb 16 19:21:07 vz1 kernel: Processors: 2
Feb 16 19:21:07 vz1 kernel: Allocating PCI resources starting at 98000000 (gap: 90000000:6ec00000)
Feb 16 19:21:07 vz1 kernel: Virtuozzo Fair CPU scheduler
Feb 16 19:21:07 vz1 kernel: Built 1 zonelists
Feb 16 19:21:07 vz1 kernel: Kernel command line: ro root=/dev/VolGroup00/LogVol00
Feb 16 19:21:07 vz1 kernel: Initializing CPU#0
Feb 16 19:21:07 vz1 kernel: PID hash table entries: 4096 (order: 12, 65536 bytes)

Feb 16 19:21:07 vz1 kernel: Detected 1397.258 MHz processor.
Feb 16 19:21:07 vz1 kernel: Using pmtmr for high-res timesource
Feb 16 19:21:07 vz1 kernel: Console: colour VGA+ 80x25
Feb 16 19:21:07 vz1 kernel: Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
Feb 16 19:21:07 vz1 kernel: Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
Feb 16 19:21:07 vz1 kernel: Memory: 2329264k/2359280k available (3986k kernel code, 29040k reserved, 1355k data, 292k init, 1441776k highmem)
Feb 16 19:21:07 vz1 kernel: Calibrating delay using timer specific routine.. 2796.76 BogoMIPS (lpj=1398380)
Feb 16 19:21:07 vz1 kernel: Mount-cache hash table entries: 512 (order: 0, 4096 bytes)
Feb 16 19:21:07 vz1 kernel: CPU: L1 I cache: 16K, L1 D cache: 16K
Feb 16 19:21:07 vz1 kernel: CPU: L2 cache: 512K
Feb 16 19:21:07 vz1 kernel: Intel machine check architecture supported.
Feb 16 19:21:07 vz1 kernel: Intel machine check reporting enabled on CPU#0.
Feb 16 19:21:07 vz1 kernel: Enabling fast FPU save and restore... done.
Feb 16 19:21:07 vz1 kernel: Enabling unmasked SIMD FPU exception support... done.
Feb 16 19:21:07 vz1 kernel: Checking 'hlt' instruction... OK.
Feb 16 19:21:07 vz1 kernel: Page beancounter hash is 262144 entries.
Feb 16 19:21:07 vz1 kernel: CPU0: Intel(R) Pentium(R) III CPU family 1400MHz stepping 01
Feb 16 19:21:07 vz1 kernel: per-CPU timeslice cutoff: 1462.58 usecs.
Feb 16 19:21:07 vz1 kernel: task migration cache decay timeout: 2 msecs.
Feb 16 19:21:07 vz1 kernel: Booting processor 1/0 eip 3000
Feb 16 19:21:07 vz1 kernel: Initializing CPU#1
Feb 16 19:21:07 vz1 kernel: Calibrating delay using timer specific routine.. 2792.51 BogoMIPS (lpj=1396255)
Feb 16 19:21:07 vz1 kernel: CPU: L1 I cache: 16K, L1 D cache: 16K
Feb 16 19:21:07 vz1 kernel: CPU: L2 cache: 512K
Feb 16 19:21:07 vz1 irqbalance: irqbalance startup succeeded
Feb 16 19:21:07 vz1 kernel: Intel machine check architecture supported.
Feb 16 19:21:07 vz1 kernel: Intel machine check reporting enabled on CPU#1.
Feb 16 19:21:07 vz1 kernel: CPU1: Intel(R) Pentium(R) III CPU family 1400MHz stepping 01
Feb 16 19:21:07 vz1 kernel: Total of 2 processors activated (5589.27 BogoMIPS).
Feb 16 19:21:07 vz1 kernel: ENABLING IO-APIC IRQs
Feb 16 19:21:07 vz1 kernel: ..TIMER: vector=0x31 pin1=2 pin2=0
Feb 16 19:21:07 vz1 kernel: ..MP-BIOS bug: 8254 timer not connected to IO-APIC
Feb 16 19:21:07 vz1 kernel: ...trying to set up timer (IRQ0) through the 8259A ...
Feb 16 19:21:07 vz1 kernel: ..... (found pin 0) ...works.
Feb 16 19:21:07 vz1 kernel: testing NMI watchdog ... OK.
Feb 16 19:21:07 vz1 kernel: checking TSC synchronization across 2 CPUs: passed.
Feb 16 19:21:07 vz1 kernel: Brought up 2 CPUs
Feb 16 19:21:07 vz1 kernel: zapping low mappings.
Feb 16 19:21:07 vz1 kernel: checking if image is initramfs... it is
Feb 16 19:21:07 vz1 kernel: Freeing initrd memory: 873k freed
Feb 16 19:21:07 vz1 kernel: NET: Registered protocol family 16
Feb 16 19:21:07 vz1 kernel: PCI: PCI BIOS revision 2.10 entry at 0xf0094, last bus=10
Feb 16 19:21:07 vz1 kernel: PCI: Using configuration type 1
Feb 16 19:21:07 vz1 kernel: mtrr: v2.0 (20020519)
Feb 16 19:21:07 vz1 kernel: mtrr: your CPUs had inconsistent fixed MTRR settings

Feb 16 19:21:07 vz1 kernel: mtrr: probably your BIOS does not setup all CPUs.
Feb 16 19:21:07 vz1 kernel: mtrr: corrected configuration.
Feb 16 19:21:07 vz1 kernel: ACPI: Subsystem revision 20040816
Feb 16 19:21:07 vz1 kernel: ACPI: Interpreter disabled.
Feb 16 19:21:07 vz1 kernel: SCSI subsystem initialized
Feb 16 19:21:07 vz1 kernel: usbcore: registered new driver usbfs
Feb 16 19:21:07 vz1 kernel: usbcore: registered new driver hub
Feb 16 19:21:07 vz1 kernel: PCI: Probing PCI hardware
Feb 16 19:21:07 vz1 kernel: PCI: Probing PCI hardware (bus 00)
Feb 16 19:21:07 vz1 kernel: PCI: Discovered peer bus 07
Feb 16 19:21:07 vz1 kernel: PCI: Device 00:00 not found by BIOS
Feb 16 19:21:07 vz1 kernel: PCI: Device 00:01 not found by BIOS
Feb 16 19:21:07 vz1 kernel: PCI: Device 00:02 not found by BIOS
Feb 16 19:21:07 vz1 kernel: PCI: Device 00:03 not found by BIOS
Feb 16 19:21:07 vz1 kernel: PCI: Device 00:78 not found by BIOS
Feb 16 19:21:07 vz1 kernel: highmem bounce pool size: 64 pages
Feb 16 19:21:07 vz1 kernel: VFS: Disk quotas dquot_6.5.1
Feb 16 19:21:07 vz1 kernel: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
Feb 16 19:21:07 vz1 kernel: Initializing Cryptographic API
Feb 16 19:21:07 vz1 kernel: pci_hotplug: PCI Hot Plug PCI Core version: 0.5
Feb 16 19:21:07 vz1 kernel: Real Time Clock Driver v1.12
Feb 16 19:21:07 vz1 kernel: serio: i8042 AUX port at 0x60,0x64 irq 12
Feb 16 19:21:07 vz1 kernel: serio: i8042 KBD port at 0x60,0x64 irq 1
Feb 16 19:21:07 vz1 kernel: Serial: 8250/16550 driver $Revision: 1.90 $ 20 ports, IRQ sharing enabled
Feb 16 19:21:07 vz1 kernel: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
Feb 16 19:21:07 vz1 kernel: RAMDISK driver initialized: 16 RAM disks of 16384K size 1024 blocksize
Feb 16 19:21:07 vz1 kernel: Compaq SMART2 Driver (v 2.6.0)
Feb 16 19:21:07 vz1 kernel: HP CISS Driver (v 2.6.10.RH1)
Feb 16 19:21:07 vz1 kernel: cciss: using DAC cycles
Feb 16 19:21:07 vz1 kernel: Using cfq io scheduler
Feb 16 19:21:07 vz1 kernel: cciss: using DAC cycles
Feb 16 19:21:07 vz1 kernel: blocks= 284522880 block_size= 512
Feb 16 19:21:07 vz1 kernel: heads= 255, sectors= 32, cylinders= 34868
Feb 16 19:21:07 vz1 kernel:
Feb 16 19:21:07 vz1 kernel: blocks= 284522880 block_size= 512
Feb 16 19:21:07 vz1 kernel: heads= 255, sectors= 32, cylinders= 34868
Feb 16 19:21:07 vz1 kernel:
Feb 16 19:21:07 vz1 kernel: cciss/c1d0: p1 p2
Feb 16 19:21:07 vz1 kernel: Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
Feb 16 19:21:07 vz1 kernel: ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
Feb 16 19:21:07 vz1 kernel: SvrWks OSB4: IDE controller at PCI slot 0000:00:0f.1
Feb 16 19:21:07 vz1 kernel: SvrWks OSB4: chipset revision 0
Feb 16 19:21:07 vz1 kernel: SvrWks OSB4: not 100% native mode: will probe irqs later
Feb 16 19:21:07 vz1 kernel: ide0: BM-DMA at 0x2c00-0x2c07, BIOS settings: hda:pio, hdb:pio

Feb 16 19:21:07 vz1 kernel: ide1: BM-DMA at 0x2c08-0x2c0f, BIOS settings: hdc:pio, hdd:pio
Feb 16 19:21:07 vz1 kernel: hda: COMPAQ CD-ROM SN-124Q, ATAPI CD/DVD-ROM drive
Feb 16 19:21:07 vz1 kernel: ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
Feb 16 19:21:07 vz1 kernel: hda: ATAPI 24X CD-ROM drive, 128kB Cache
Feb 16 19:21:07 vz1 kernel: Uniform CD-ROM driver Revision: 3.20
Feb 16 19:21:07 vz1 kernel: ide-floppy driver 0.99.newide
Feb 16 19:21:07 vz1 kernel: Adaptec aacraid driver (1.1-5[2412])
Feb 16 19:21:07 vz1 kernel: Loading AIC-94xx Linux SAS/SATA Family Driver, Rev: 1.0.8-6
Feb 16 19:21:07 vz1 kernel:
Feb 16 19:21:07 vz1 kernel: AIC-94xx controller(s) attached = 0.
Feb 16 19:21:07 vz1 kernel:
Feb 16 19:21:07 vz1 kernel: QLogic iSCSI HBA Driver (c0388380)
Feb 16 19:21:07 vz1 kernel: megaraid cmm: 2.20.2.6 (Release Date: Mon Mar 7 00:01:03 EST 2005)
Feb 16 19:21:07 vz1 kernel: megaraid: 2.20.4.6-rh2 (Release Date: Wed Jun 28 12:27:22 EST 2006)
Feb 16 19:21:07 vz1 kernel: megasas: 00.00.02.03-RH1 Mon Jan 30 16:30:45 PST 2006
Feb 16 19:21:07 vz1 kernel: GDT-HA: Storage RAID Controller Driver. Version: 3.04
Feb 16 19:21:07 vz1 kernel: GDT-HA: Found 0 PCI Storage RAID Controllers
Feb 16 19:21:07 vz1 autofs: automount startup succeeded
Feb 16 19:21:07 vz1 kernel: 3ware Storage Controller device driver for Linux v1.26.00.039.
Feb 16 19:21:07 vz1 kernel: 3w-xxxx: No cards found.
Feb 16 19:21:07 vz1 kernel: 3ware 9000 Storage Controller device driver for Linux v2.26.04.010.
Feb 16 19:21:07 vz1 kernel: Emulex LightPulse Fibre Channel SCSI driver 8.0.16.27
Feb 16 19:21:07 vz1 kernel: Copyright(c) 2003-2006 Emulex. All rights reserved.
Feb 16 19:21:07 vz1 kernel: Emulex LightPulse FC SCSI IOCTL 2.0.15
Feb 16 19:21:07 vz1 kernel: Copyright(c) 2003-2006 Emulex. All rights reserved.
Feb 16 19:21:07 vz1 kernel: Fusion MPT base driver 3.02.62.01rh
Feb 16 19:21:07 vz1 kernel: Copyright (c) 1999-2005 LSI Logic Corporation
Feb 16 19:21:07 vz1 kernel: Fusion MPT SPI Host driver 3.02.62.01rh
Feb 16 19:21:07 vz1 kernel: Fusion MPT FC Host driver 3.02.62.01rh
Feb 16 19:21:07 vz1 kernel: Fusion MPT SAS Host driver 3.02.62.01rh
Feb 16 19:21:07 vz1 kernel: usbcore: registered new driver hiddev
Feb 16 19:21:07 vz1 kernel: usbcore: registered new driver usbhid
Feb 16 19:21:07 vz1 kernel: drivers/usb/input/hid-core.c: v2.0:USB HID core driver
Feb 16 19:21:07 vz1 kernel: mice: PS/2 mouse device common for all mice
Feb 16 19:21:07 vz1 kernel: input: AT Translated Set 2 keyboard on isa0060/serio0
Feb 16 19:21:07 vz1 kernel: input: ImPS/2 Generic Wheel Mouse on isa0060/serio1
Feb 16 19:21:07 vz1 kernel: md: linear personality registered as nr 1
Feb 16 19:21:07 vz1 kernel: md: raid0 personality registered as nr 2
Feb 16 19:21:07 vz1 kernel: md: raid1 personality registered as nr 3
Feb 16 19:21:07 vz1 kernel: md: raid10 personality registered as nr 9
Feb 16 19:21:07 vz1 kernel: md: raid5 personality registered as nr 4
Feb 16 19:21:07 vz1 kernel: raid5: automatically using best checksumming function: pIII_sse
Feb 16 19:21:07 vz1 kernel: pIII_sse : 3236.000 MB/sec
Feb 16 19:21:07 vz1 kernel: raid5: using function: pIII_sse (3236.000 MB/sec)
Feb 16 19:21:07 vz1 kernel: md: multipath personality registered as nr 7

Feb 16 19:21:07 vz1 kernel: md: md driver 0.90.0 MAX_MD_DEVS=256, MD_SB_DISKS=27
Feb 16 19:21:07 vz1 kernel: device-mapper: 4.5.0-ioctl (2005-10-04) initialised: dm-devel@redhat.com
Feb 16 19:21:07 vz1 kernel: device-mapper: dm-multipath version 1.0.4 loaded
Feb 16 19:21:07 vz1 kernel: device-mapper: dm-round-robin version 1.0.0 loaded
Feb 16 19:21:07 vz1 kernel: device-mapper: dm-emc version 0.0.3 loaded
Feb 16 19:21:07 vz1 kernel: NET: Registered protocol family 2
Feb 16 19:21:07 vz1 kernel: IP route cache hash table entries: 32768 (order: 5, 131072 bytes)
Feb 16 19:21:07 vz1 kernel: TCP established hash table entries: 131072 (order: 9, 2097152 bytes)
Feb 16 19:21:07 vz1 kernel: TCP bind hash table entries: 131072 (order: 8, 1572864 bytes)
Feb 16 19:21:07 vz1 kernel: TCP: Hash tables configured (established 131072 bind 131072)
Feb 16 19:21:07 vz1 kernel: NET: Registered protocol family 1
Feb 16 19:21:07 vz1 kernel: Freeing unused kernel memory: 292k freed
Feb 16 19:21:07 vz1 kernel: kjournald starting. Commit interval 5 seconds
Feb 16 19:21:07 vz1 kernel: EXT3-fs: mounted filesystem with ordered data mode.
Feb 16 19:21:07 vz1 kernel: inserting floppy driver for 2.6.9-023stab040.1-smp
Feb 16 19:21:07 vz1 kernel: Floppy drive(s): fd0 is 1.44M
Feb 16 19:21:07 vz1 kernel: FDC 0 is a National Semiconductor PC87306
Feb 16 19:21:07 vz1 kernel: Ethernet Channel Bonding Driver: v2.6.3 (June 8, 2005)
Feb 16 19:21:07 vz1 kernel: bonding: MII link monitoring set to 100 ms
Feb 16 19:21:07 vz1 kernel: e100: Intel(R) PRO/100 Network Driver, 3.5.10-k2-NAPI
Feb 16 19:21:07 vz1 kernel: e100: Copyright(c) 1999-2005 Intel Corporation
Feb 16 19:21:07 vz1 kernel: e100: eth0: e100_probe: addr 0xf7cb0000, irq 5, MAC addr 00:08:02:25:2E:F3
Feb 16 19:21:07 vz1 kernel: e100: eth1: e100_probe: addr 0xf7af0000, irq 7, MAC addr 00:08:02:25:2E:F2
Feb 16 19:21:07 vz1 kernel: ohci_hcd 0000:00:0f.2: ServerWorks OSB4/CSB5 OHCI USB Controller
Feb 16 19:21:07 vz1 kernel: ohci_hcd 0000:00:0f.2: irq 11, pci mem f894a000
Feb 16 19:21:07 vz1 kernel: ohci_hcd 0000:00:0f.2: new USB bus registered, assigned bus number 1
Feb 16 19:21:07 vz1 kernel: hub 1-0:1.0: USB hub found
Feb 16 19:21:07 vz1 kernel: hub 1-0:1.0: 4 ports detected
Feb 16 19:21:07 vz1 kernel: md: Autodetecting RAID arrays.
Feb 16 19:21:07 vz1 kernel: md: autorun ...
Feb 16 19:21:07 vz1 kernel: md: ... autorun DONE.
Feb 16 19:21:07 vz1 kernel: EXT3 FS on dm-0, internal journal
Feb 16 19:21:07 vz1 kernel: kjournald starting. Commit interval 5 seconds
Feb 16 19:21:07 vz1 kernel: EXT3 FS on cciss/c1d0p1, internal journal
Feb 16 19:21:07 vz1 kernel: EXT3-fs: mounted filesystem with ordered data mode.
Feb 16 19:21:07 vz1 kernel: Adding 2031608k swap on /dev/VolGroup00/LogVol01. Priority:-1 extents:1
Feb 16 19:21:07 vz1 kernel: IA-32 Microcode Update Driver: v1.14 <tigran@veritas.com>
Feb 16 19:21:07 vz1 kernel: microcode: CPU0 already at revision 0x1c (current=0x1c)
Feb 16 19:21:07 vz1 kernel: microcode: CPU1 already at revision 0x1c (current=0x1c)
Feb 16 19:21:07 vz1 kernel: microcode: No new microdata for cpu 1
Feb 16 19:21:07 vz1 kernel: microcode: No new microdata for cpu 0

Feb 16 19:21:07 vz1 kernel: IA-32 Microcode Update Driver v1.14 unregistered
Feb 16 19:21:07 vz1 smartd[7124]: smartd version 5.33 [i686-redhat-linux-gnu] Copyright (C) 2002-4 Bruce Allen
Feb 16 19:21:07 vz1 kernel: ip_tables: (C) 2000-2002 Netfilter core team
Feb 16 19:21:07 vz1 smartd[7124]: Home page is http://smartmontools.sourceforge.net/
Feb 16 19:21:07 vz1 kernel: ip_conntrack : parameter ip_conntrack_enable_ve0 is obsoleted. In kernel >= 2.6.15 connection tracking on hardware node is enabled by default, use ip_conntrack_disable_ve0=1 parameter to disable.
Feb 16 19:21:07 vz1 smartd[7124]: Opened configuration file /etc/smartd.conf
Feb 16 19:21:07 vz1 kernel: ip_conntrack version 2.1 (8192 buckets, 65536 max) - 312 bytes per conntrack
Feb 16 19:21:07 vz1 kernel: NET: Registered protocol family 17
Feb 16 19:21:07 vz1 kernel: e100: eth0: e100_watchdog: link up, 100Mbps, full-duplex
Feb 16 19:21:07 vz1 kernel: bonding: bond0: enslaving eth0 as an active interface with an up link.
Feb 16 19:21:07 vz1 smartd[7124]: Configuration file /etc/smartd.conf parsed but has no entries (like /dev/hda)
Feb 16 19:21:07 vz1 kernel: e100: eth1: e100_watchdog: link up, 100Mbps, full-duplex
Feb 16 19:21:07 vz1 smartd[7124]: Unable to monitor any SMART enabled devices. Try debug (-d) option. Exiting...
Feb 16 19:21:07 vz1 kernel: bonding: bond0: enslaving eth1 as an active interface with an up link.
Feb 16 19:21:07 vz1 kernel: bonding: Warning: the permanent HWaddr of eth0 - 00:08:02:25:2E:F3 - is still in use by bond0. Set the HWaddr of eth0 to a different address to avoid conflicts.
Feb 16 19:21:07 vz1 smartd: smartd startup failed
Feb 16 19:21:07 vz1 kernel: bonding: bond0: releasing active interface eth0
Feb 16 19:21:07 vz1 kernel: e100: eth0: e100_watchdog: link up, 100Mbps, full-duplex
Feb 16 19:21:07 vz1 kernel: bonding: bond0: enslaving eth0 as an active interface with an up link.
Feb 16 19:21:07 vz1 kernel: bonding: bond0: releasing active interface eth1
Feb 16 19:21:07 vz1 kernel: e100: eth1: e100_watchdog: link up, 100Mbps, full-duplex
Feb 16 19:21:07 vz1 kernel: bonding: bond0: enslaving eth1 as an active interface with an up link.
Feb 16 19:21:08 vz1 kernel: lp: driver loaded but no devices found
Feb 16 19:21:08 vz1 cups: cupsd startup succeeded
Feb 16 19:21:09 vz1 sshd: succeeded
Feb 16 19:21:00 vz1 iptables: succeeded
Feb 16 19:21:00 vz1 sysctl: net.ipv4.ip_forward = 1
Feb 16 19:21:00 vz1 sysctl: net.ipv4.ip_forward = 1
Feb 16 19:21:00 vz1 sysctl: net.ipv4.conf.default.proxy_arp = 0
Feb 16 19:21:00 vz1 sysctl: net.ipv4.conf.default.rp_filter = 1
Feb 16 19:21:00 vz1 sysctl: net.ipv4.conf.default.accept_source_route = 0
Feb 16 19:21:00 vz1 sysctl: kernel.sysrq = 1
Feb 16 19:21:00 vz1 sysctl: kernel.core_uses_pid = 1
Feb 16 19:21:00 vz1 sysctl: net.ipv4.conf.default.send_redirects = 1
Feb 16 19:21:00 vz1 sysctl: net.ipv4.conf.all.send_redirects = 0
Feb 16 19:21:00 vz1 network: Setting network parameters: succeeded

Feb 16 19:21:00 vz1 network: Bringing up loopback interface: succeeded
Feb 16 19:21:00 vz1 ifup: Enslaving eth0 to bond0
Feb 16 19:21:00 vz1 ifup: Enslaving eth1 to bond0
Feb 16 19:21:00 vz1 ifup:
Feb 16 19:21:00 vz1 ifup: Determining IP information for bond0...
Feb 16 19:21:00 vz1 dhclient: DHCPREQUEST on bond0 to 255.255.255.255 port 67
Feb 16 19:21:00 vz1 dhclient: DHCPACK from 10.107.208.1
Feb 16 19:21:01 vz1 NET: /sbin/dhclient-script : updated /etc/resolv.conf
Feb 16 19:21:01 vz1 dhclient: bound to 10.107.208.110 -- renewal in 20983 seconds.
Feb 16 19:21:01 vz1 ifup: done.
Feb 16 19:21:01 vz1 ifup: Enslaving eth0 to bond0
Feb 16 19:21:01 vz1 ifup: Enslaving eth1 to bond0
Feb 16 19:21:06 vz1 network: Bringing up interface bond0: succeeded
Feb 16 19:21:07 vz1 ifup: Bringing up interface venet0:
Feb 16 19:21:07 vz1 ifup: Configuring interface venet0:
Feb 16 19:21:07 vz1 ifup: net.ipv4.conf.venet0.send_redirects = 0
Feb 16 19:21:07 vz1 network: Bringing up interface venet0: succeeded
Feb 16 19:21:12 vz1 ntpdate[8270]: step time server 10.107.208.1 offset -1.470787 sec
Feb 16 19:21:12 vz1 ntpd: succeeded
Feb 16 19:21:12 vz1 ntpd[8278]: ntpd 4.2.0a@1.1190-r Sun Aug 13 01:49:12 CDT 2006 (1)
Feb 16 19:21:12 vz1 ntpd: ntpd startup succeeded
Feb 16 19:21:12 vz1 ntpd[8278]: precision = 12.000 usec
Feb 16 19:21:12 vz1 ntpd[8278]: Listening on interface wildcard, 0.0.0.0#123
Feb 16 19:21:12 vz1 ntpd[8278]: Listening on interface lo, 127.0.0.1#123
Feb 16 19:21:12 vz1 ntpd[8278]: Listening on interface bond0, 10.107.208.110#123
Feb 16 19:21:12 vz1 ntpd[8278]: kernel time sync status 0040
Feb 16 19:21:12 vz1 ntpd[8278]: frequency initialized 0.000 PPM from /var/lib/ntp/drift
Feb 16 19:21:12 vz1 sendmail: sendmail startup succeeded
Feb 16 19:21:12 vz1 sendmail: sm-client startup succeeded
Feb 16 19:21:12 vz1 crond: crond startup succeeded
Feb 16 19:21:13 vz1 anacron: anacron startup succeeded
Feb 16 19:21:13 vz1 atd: atd startup succeeded
Feb 16 19:21:14 vz1 messagebus: messagebus startup succeeded
Feb 16 19:21:14 vz1 cups-config-daemon: cups-config-daemon startup succeeded
Feb 16 19:21:14 vz1 haldaemon: haldaemon startup succeeded
Feb 16 19:21:14 vz1 fstab-sync[8964]: removed all generated mount points
Feb 16 19:21:53 vz1 sshd(pam_unix)[9126]: session opened for user root by root(uid=0)

c-tools
<openvz management tools>
[root@vz1 ~]# yum install vzctl vzquota
<openvz template management tools>
[root@vz1 ~]# yum install vzpkg vzyum vzrpm43-python vzrpm44-python vzrpm44
<list/install the templates we want>
[root@vz1 ~]# yum search vztmpl
[root@vz1 ~]# yum install vztmpl-centos-4
<create/update the caches of all the templates>
[root@vz1 ~]# vzpkgcache

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/target0:0:0/0:0:0:0
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/target0:0:0/0:0:0:0
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 kernal 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.

Subject: Re: DL380 G2 - CCISS
Posted by Vasily Tarasov on Mon, 19 Feb 2007 11:32:09 GMT
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Thank you for the information.

I want to ask you for a few services:

1) please, do
lspci
lspci -n
and post output to us.

2) I still don't understand one thing. After the warnings, does the device in question work properly for you or not?
3) If it is possible, please install 028test015 kernel and check, does the warnings persist and does the device work.

We'll appreciate it very much,
Thanks in advance!

Subject: Re: DL380 G2 - CCISS
Posted by gramsa49 on Mon, 19 Feb 2007 15:43:48 GMT
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Vasily Tarasov wrote on Mon, 19 February 2007 06:32Thank you for the information.

I want to ask you for a few services:

1) please, do
lspci
lspci -n
and post output to us.
2) I still don't understand one thing. After the warnings, does the device in question work properly for you or not?
3) If it is possible, please install 028test015 kernel and check, does the warnings persist and does the device work.

We'll appreciate it very much,
Thanks in advance!

1)
[root@vz1 ~]# lspci
00:00.0 Host bridge: Broadcom CNB20HE Host Bridge (rev 23)
00:00.1 Host bridge: Broadcom CNB20HE Host Bridge (rev 01)
00:00.2 Host bridge: Broadcom CNB20HE Host Bridge (rev 01)
00:00.3 Host bridge: Broadcom CNB20HE Host Bridge (rev 01)
00:01.0 RAID bus controller: Compaq Computer Corporation Smart Array 5i/532 (rev 01)
00:02.0 Ethernet controller: Intel Corporation 82557/8/9 [Ethernet Pro 100] (rev 08)
00:04.0 Ethernet controller: Intel Corporation 82557/8/9 [Ethernet Pro 100] (rev 08)
00:05.0 VGA compatible controller: ATI Technologies Inc Rage XL (rev 27)
00:06.0 System peripheral: Compaq Computer Corporation Advanced System Management Controller
00:0f.0 ISA bridge: Broadcom OSB4 South Bridge (rev 51)
00:0f.1 IDE interface: Broadcom OSB4 IDE Controller
00:0f.2 USB Controller: Broadcom OSB4/CSB5 OHCI USB Controller (rev 04)
07:04.0 RAID bus controller: Compaq Computer Corporation Smart Array 5300 Controller (rev 02)
07:07.0 PCI Hot-plug controller: Compaq Computer Corporation PCI Hotplug Controller (rev 12)
2)
[root@vz1 ~]# lspci -n

00:00.0 Class 0600: 1166:0008 (rev 23)
00:00.1 Class 0600: 1166:0008 (rev 01)
00:00.2 Class 0600: 1166:0006 (rev 01)
00:00.3 Class 0600: 1166:0006 (rev 01)
00:01.0 Class 0104: 0e11:b178 (rev 01)
00:02.0 Class 0200: 8086:1229 (rev 08)
00:04.0 Class 0200: 8086:1229 (rev 08)
00:05.0 Class 0300: 1002:4752 (rev 27)
00:06.0 Class 0880: 0e11:a0f0
00:0f.0 Class 0601: 1166:0200 (rev 51)
00:0f.1 Class 0101: 1166:0211
00:0f.2 Class 0c03: 1166:0220 (rev 04)
07:04.0 Class 0104: 0e11:b060 (rev 02)
07:07.0 Class 0804: 0e11:a0f7 (rev 12)
3) I will install 028test015 and post the results.

The device seems to work ok, but I read some other threads on the net that stated system instability, though a resolution was never posted on those sites.

Subject: Re: DL380 G2 - CCISS
Posted by gramsa49 on Mon, 19 Feb 2007 15:51:53 GMT
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I noticed that the hp initrd created by the compaq smartstart includes the following kernel modules:
-rw-r--r-- 1 root root 78232 Feb 17 17:24 cciss.ko
-rw-r--r-- 1 root root 37916 Feb 17 17:24 dm-mirror.ko
-rw-r--r-- 1 root root 71532 Feb 17 17:24 dm-mod.ko
-rw-r--r-- 1 root root 25340 Feb 17 17:24 dm-snapshot.ko
-rw-r--r-- 1 root root 7952 Feb 17 17:24 dm-zero.ko
-rw-r--r-- 1 root root 140604 Feb 17 17:24 ext3.ko
-rw-r--r-- 1 root root 74864 Feb 17 17:24 jbd.ko
-rw-r--r-- 1 root root 148944 Feb 17 17:24 scsi_mod.ko
-rw-r--r-- 1 root root 24620 Feb 17 17:24 sd_mod.ko
Not sure what most of these are or if they are needed. When comparing the CentOS and OpenVZ kernel .config's, it would appear that the CentOS build compiles scsi support as a module whereas OpenVZ compiles it into the kernel.

One other small bit, I downloaded the cciss driver src rpm from sourceforge (http://sourceforge.net/projects/cciss/) and compiled a binary rpm, updated the openvz initrd to include the cciss.ko module, but still see the same.
cd /usr/source/redhat/SPECS
rpmbuild -bb cciss.spec
rpm -Uhv --replacefiles /usr/src/redhat/RPMS/i386/cpq_cciss-2.6.14-7.i386.rpm
<update openvz initrd, include cciss.ko in lib and update init to do insmod>

Subject: Re: DL380 G2 - CCISS
Posted by gramsa49 on Mon, 19 Feb 2007 19:12:38 GMT
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Ok, I almost have the test kernel installed, but I screwed up and missed the network driver when installing the stock 2.6.18 kernel; so I can't get the openvz test kernel onto the box very easily.

It looks like upgrading the kernel to 2.6.18.6 fixed the errors. I am guessing there was a driver update to the cciss driver that corrected some type of problem. The cciss driver in the 2.6.9 kernel is 2.6.10; the cciss driver in the 2.6.18.6 kernel is 3.6.10. I am going to back out at this point and install the latest stable openvz kernal and build a binary rpm for the 3.6.x cciss driver and see if that corrects the issue. I will post the results when I get them.

Here is an account of the process:

0-Install CentOS 4.4

1-Run yum update

```
 ================================================================================
  Package              Arch       Version          Repository       Size
 ================================================================================
 Installing:
  kernel               i686       2.6.9-42.0.8.EL  update           11 M
  kernel-devel         i686       2.6.9-42.0.8.EL  update          3.7 M
  kernel-smp           i686       2.6.9-42.0.8.EL  update           10 M
 Updating:
  bind-libs            i386       20:9.2.4-24.EL4  update          565 k
  bind-utils           i386       20:9.2.4-24.EL4  update          141 k
  dbus                 i386       0.22-12.EL.8     update          455 k
  dbus-devel           i386       0.22-12.EL.8     update          228 k
  dbus-glib            i386       0.22-12.EL.8     update           38 k
  elinks               i386       0.9.2-3.3        update          839 k
  fetchmail            i386       6.2.5-6.el4.5    update          572 k
  gnupg                i386       1.2.6-8          update          1.6 M
  gtk2                 i386       2.4.13-22        update          4.3 M
  gzip                 i386       1.3.3-16.rhel4   update           88 k
  hwdata               noarch     0.146.23.EL-1    update          337 k
  info                 i386       4.7-5.el4.2      update          145 k
  iproute              i386       2.6.9-3.EL4.3.centos4  update    932 k
  kernel-hugemem-devel i686       2.6.9-42.0.8.EL  update          3.7 M
  kernel-smp-devel     i686       2.6.9-42.0.8.EL  update          3.7 M
  nss_ldap             i386       226-17           update          1.0 M
  openssh              i386       3.9p1-8.RHEL4.17.1  update       317 k
  openssh-clients      i386       3.9p1-8.RHEL4.17.1  update       341 k
  openssh-server       i386       3.9p1-8.RHEL4.17.1  update       208 k
  openssl              i686       0.9.7a-43.14     update          1.1 M
  openssl-devel        i586       0.9.7a-43.14     update          1.6 M
```

```
 python                i386       2.3.4-14.3       update           4.8 M
 python-devel          i386       2.3.4-14.3       update           1.4 M
 qt                    i386       1:3.3.3-10.RHEL4  update          2.9 M
 sysreport             noarch     1.3.15-8         update           18 k
 tar                   i386       1.14-12.RHEL4    update           334 k
 texinfo               i386       4.7-5.el4.2      update           743 k
 tzdata                noarch     2006m-3.el4      update           444 k
 up2date               i386       4.4.69-25.centos4.7  update       1.8 M
 xorg-x11-Mesa-libGL   i386       6.8.2-1.EL.13.37.5  update        379 k
 xorg-x11-font-utils   i386       6.8.2-1.EL.13.37.5  update        302 k
 xorg-x11-libs         i386       6.8.2-1.EL.13.37.5  update        2.7 M
 xorg-x11-xfs          i386       6.8.2-1.EL.13.37.5  update        315 k

 Transaction Summary
 ================================================================================
====
 Install      3 Package(s)
 Update      33 Package(s)
 Remove       0 Package(s)
 Total download size: 63 M
```

2-Disable unneeded services

```
 [root@vz1 ~]# chkconfig rpcidmapd off
 [root@vz1 ~]# chkconfig pcmcia off
 [root@vz1 ~]# chkconfig xinetd off
 [root@vz1 ~]# chkconfig netfs off
 [root@vz1 ~]# chkconfig apmd off
 [root@vz1 ~]# chkconfig portmap off
 [root@vz1 ~]# chkconfig nfslock off
 [root@vz1 ~]# chkconfig isdn off
 [root@vz1 ~]# chkconfig rpcgssd off
 [root@vz1 ~]# chkconfig openibd off
 [root@vz1 ~]# chkconfig gpm off
 [root@vz1 ~]# chkconfig mdmonitor off
 [root@vz1 ~]# chkconfig xfs off
```

3-Network settings

a-configure bonding

* update /etc/modprobe.conf, add the following lines

```
 alias bond0 bonding
 options bond0 mode=0 miimon=100
```

* create /etc/sysconfig/network-scripts/ifcfg-bond0

```
 [root@vz1 ~]# cat ifcfg-bond0
 DEVICE=bond0
 IPADDR=10.107.208.150
 NETWORK=10.107.208.0
 NETMASK=255.255.255.0
```

BROADCAST=10.107.108.255
USERCTL=no
BOOTPROTO=dhcp
ONBOOT=yes
* update /etc/sysconfig/network-scripts/ifcfg-eth0
[root@vz1 ~]# cat ifcfg-eth0
DEVICE=eth0
USERCTL=no
ONBOOT=yes
MASTER=bond0
BOOTPROTO=none
SLAVE=yes
* update /etc/sysconfig/network-scripts/ifcfg-eth1
[root@vz1 ~]# cat ifcfg-eth1
DEVICE=eth1
USERCTL=no
MASTER=bond0
ONBOOT=yes
BOOTPROTO=none
SLAVE=yes

4-Server Settings
a-ntp
[root@vz1 ~]# yum install ntp
[root@vz1 ~]# chkconfig --level 2345 ntpd on
<update /etc/ntp.conf to use our server>
server 10.107.208.1
b-sendmail
[root@vz1 ~]# diff -u /etc/aliases.orig /etc/aliases
--- /etc/aliases.orig 2007-02-xxx
+++ /etc/aliases 2007-02-xxx
@@ -97,4 +97,4 @@
decode: root

Person who should get root's mail
-#root: marc
+root: xxxx
[root@vz1 ~]# newaliases

5-Install openvz
a-kernel
[root@vz1 ~]# cd /etc/yum.repos.d
[root@vz1 ~]# wget http://download.openvz.org/openvz.repo
<disable stable and enable devel repo>
--- openvz.repo.original 2007-02-19 12:43:11.000000000 -0500
+++ openvz.repo 2007-02-19 12:43:21.000000000 -0500
@@ -2,7 +2,7 @@
name=OpenVZ stable kernel and utilities

```
 #baseurl=http://download.openvz.org/current/
 mirrorlist=http://download.openvz.org/mirrors-current
-enabled=1
+enabled=0
 gpgcheck=1
 gpgkey=http://download.openvz.org/RPM-GPG-Key-OpenVZ

@@ -10,7 +10,7 @@
 name=OpenVZ development kernel
 #baseurl=http://download.openvz.org/kernel/devel/current/
 mirrorlist=http://download.openvz.org/kernel/mirrors-devel
-enabled=0
+enabled=1
 gpgcheck=1
 gpgkey=http://download.openvz.org/RPM-GPG-Key-OpenVZ
[root@vz1 ~]# rpm --import http://download.openvz.org/RPM-GPG-Key-OpenVZ
<build latest kernel - non-openvz, upgrade to openvz test yeilds an error>
[root@vz1 src]# yum install kernel-smp
Setting up Install Process
Setting up repositories
Reading repository metadata in from local files
Parsing package install arguments
Resolving Dependencies
--> Populating transaction set with selected packages. Please wait.
---> Package kernel-smp.i686 0:2.6.18-ovz028test015.1 set to be installed
--> Running transaction check
--> Processing Conflict: lksctp-tools conflicts kernel >= 2.6.10
--> Finished Dependency Resolution
Error: lksctp-tools conflicts with kernel >= 2.6.10
[root@vz1 ~]# cd /usr/src
[root@vz1 src]# wget http://www.kernel.org/pub/linux/kernel/v2.6/linux-2.6.18.6.tar.gz
[root@vz1 src]# tar -xvzf linux-2.6.18.6.tar.gz
[root@vz1 src]# cd linux-2.6.18.6
[root@vz1 linux-2.6.18.6]# cp ../kernels/2.6.9-42.0.8.EL-smp-i686/.config .
[root@vz1 src]# make oldconfig
<accepted defaults for all new options>
[root@vz1 src]# make all
[root@vz1 src]# make modules_install
[root@vz1 src]# make install
<update grub to use new kernel as default>
[root@vz1 src]# reboot
<let's go ahead and try engaging the tape drive and see if the problem stops>
It does, good.
```

Subject: Re: DL380 G2 - CCISS
Posted by gramsa49 on Mon, 19 Feb 2007 20:07:46 GMT

An update. Missed adding the bond module to /etc/modprobe.conf, that is why the network interfaces did not come up. Fixed that an installed the 2.6.18-ovz028test015.1-smp kernel. Bad news is that I get no output to /var/log/messages with the test kernel; no errors, no nothing. I am going to try buliding the cciss 3.6.10 driver with the latest stable kernel now.

The device is engaged using the following:
[root@vz1 tmp]# echo "engage scsi" > /proc/driver/cciss/cciss0
[root@vz1 tmp]# echo "engage scsi" > /proc/driver/cciss/cciss1

As requested in the original post, here is the output of lspci:
[root@vz1 tmp]# lspci
00:00.0 Host bridge: Broadcom CNB20HE Host Bridge (rev 23)
00:00.1 Host bridge: Broadcom CNB20HE Host Bridge (rev 01)
00:00.2 Host bridge: Broadcom CNB20HE Host Bridge (rev 01)
00:00.3 Host bridge: Broadcom CNB20HE Host Bridge (rev 01)
00:01.0 RAID bus controller: Compaq Computer Corporation Smart Array 5i/532 (rev 01)
00:02.0 Ethernet controller: Intel Corporation 82557/8/9 [Ethernet Pro 100] (rev 08)
00:04.0 Ethernet controller: Intel Corporation 82557/8/9 [Ethernet Pro 100] (rev 08)
00:05.0 VGA compatible controller: ATI Technologies Inc Rage XL (rev 27)
00:06.0 System peripheral: Compaq Computer Corporation Advanced System Management Controller
00:0f.0 ISA bridge: Broadcom OSB4 South Bridge (rev 51)
00:0f.1 IDE interface: Broadcom OSB4 IDE Controller
00:0f.2 USB Controller: Broadcom OSB4/CSB5 OHCI USB Controller (rev 04)
07:04.0 RAID bus controller: Compaq Computer Corporation Smart Array 5300 Controller (rev 02)
07:07.0 PCI Hot-plug controller: Compaq Computer Corporation PCI Hotplug Controller (rev 12)

and lspci -n:
00:00.0 Class 0600: 1166:0008 (rev 23)
00:00.1 Class 0600: 1166:0008 (rev 01)
00:00.2 Class 0600: 1166:0006 (rev 01)
00:00.3 Class 0600: 1166:0006 (rev 01)
00:01.0 Class 0104: 0e11:b178 (rev 01)
00:02.0 Class 0200: 8086:1229 (rev 08)
00:04.0 Class 0200: 8086:1229 (rev 08)
00:05.0 Class 0300: 1002:4752 (rev 27)
00:06.0 Class 0880: 0e11:a0f0
00:0f.0 Class 0601: 1166:0200 (rev 51)
00:0f.1 Class 0101: 1166:0211
00:0f.2 Class 0c03: 1166:0220 (rev 04)
07:04.0 Class 0104: 0e11:b060 (rev 02)
07:07.0 Class 0804: 0e11:a0f7 (rev 12)

lsmod:
[root@vz1 tmp]# lsmod
Module   Size Used by
parport_pc   26660 0

```
lp                  8740  0
parport            20704  2 parport_pc,lp
autofs4            19428  0
af_packet          17672  2
ipt_REJECT          4128  1
xt_state            1760  2
ip_conntrack       48172  1 xt_state
xt_tcpudp           3168  3
iptable_filter      3456  1
ip_tables          12952  1 iptable_filter
x_tables           13092  4 ipt_REJECT,xt_state,xt_tcpudp,ip_tables
thermal            11176  0
processor          16140  1 thermal
fan                 3556  0
button              4976  0
battery             7876  0
asus_acpi          13912  0
ac                  3620  0
ohci_hcd           19684  0
usbcore           119076  2 ohci_hcd
i2c_piix4           7372  0
i2c_core           17248  1 i2c_piix4
e100               32936  0
mii                 5056  1 e100
bonding            85688  0
floppy             57540  0
ide_cd             38916  0
cdrom              40544  1 ide_cd
```

Here is a transcript of the vz test kernel:

<let's go ahead and try engaging the tape drive and see if the problem stops, It does, good.>

```
Feb 19 14:21:22 vz1 kernel: HP CISS Driver (v 3.6.10)
Feb 19 14:21:22 vz1 kernel: ACPI: PCI Interrupt 0000:00:01.0[A] -> GSI 16 (level, low) -> IRQ 169
Feb 19 14:21:22 vz1 kernel: cciss0: <0xb178> at PCI 0000:00:01.0 IRQ 169 using DAC
Feb 19 14:21:22 vz1 kernel: ACPI: PCI Interrupt 0000:07:04.0[A] -> GSI 29 (level, low) -> IRQ 177
Feb 19 14:21:22 vz1 kernel: cciss1: <0xb060> at PCI 0000:07:04.0 IRQ 177 using DAC
Feb 19 14:21:22 vz1 kernel:       blocks= 284522880 block_size= 512
Feb 19 14:21:22 vz1 kernel:       heads= 255, sectors= 32, cylinders= 34868
Feb 19 14:21:22 vz1 kernel:
Feb 19 14:21:22 vz1 kernel:       blocks= 284522880 block_size= 512
Feb 19 14:21:22 vz1 kernel:       heads= 255, sectors= 32, cylinders= 34868
Feb 19 14:21:22 vz1 kernel:
Feb 19 14:21:22 vz1 kernel:  cciss/c1d0: p1 p2
...
Feb 19 14:26:58 vz1 kernel: cciss0: No device changes detected.
Feb 19 14:26:58 vz1 kernel: cciss0: No appropriate SCSI device detected, SCSI subsystem not
engaged.
Feb 19 14:26:58 vz1 kernel: scsi0 : cciss
Feb 19 14:26:58 vz1 kernel:   Vendor: COMPAQ    Model: SDX-500C         Rev: 1.32
```

```
Feb 19 14:26:58 vz1 kernel:   Type:   Sequential-Access              ANSI SCSI revision: 02
Feb 19 14:26:58 vz1 scsi.agent[3654]: tape at
/devices/pci0000:07/0000:07:04.0/host0/target0:0:0/0:0:0:0
Feb 19 14:26:58 vz1 kernel: st: Version 20050830, fixed bufsize 32768, s/g segs 256
Feb 19 14:26:58 vz1 kernel: st 0:0:0:0: Attached scsi tape st0
Feb 19 14:26:58 vz1 kernel: st0: try direct i/o: yes (alignment 512 B)
[root@vz1 ~]# rpm -e lksctp-tools lksctp-tools-devel
[root@vz1 ~]# yum install kernel-smp
================================================================================
 Package              Arch       Version          Repository       Size
================================================================================
Installing:
 kernel-smp           i686       2.6.18-ovz028test015.1  openvz-kernel-devel   13 M

Transaction Summary
================================================================================
WARNING: No module cciss found for kernel 2.6.18-ovz028test015.1-smp, continuing anyway
<update grub to use new kernel as default>
[root@vz1 src]# reboot
[root@vz1 ~]# uname -a
Linux vz1.home.arswiki.org 2.6.18-ovz028test015.1-smp #1 SMP Fri Feb 2 13:48:19 MSK 2007
i686 i686 i386 GNU/Linux
<from /var/log/messages>
Feb 19 14:29:56 vz1 kernel: cciss1: <0xb060> at PCI 0000:07:04.0 IRQ 17 using DAC
Feb 19 14:29:56 vz1 kernel:       blocks= 284522880 block_size= 512
Feb 19 14:29:56 vz1 kernel:       heads= 255, sectors= 32, cylinders= 34868
Feb 19 14:29:56 vz1 kernel:
Feb 19 14:29:56 vz1 kernel:       blocks= 284522880 block_size= 512
Feb 19 14:29:56 vz1 kernel:       heads= 255, sectors= 32, cylinders= 34868
Feb 19 14:29:56 vz1 kernel:
Feb 19 14:29:56 vz1 kernel:  cciss/c1d0: p1 p2
<let's go ahead and try engaging the tape drive and see if the problem stops.  There is no output
to /var/log/messages>

For reference, this is the messages file for the vz test kernel:

[root@vz1 ~]# cat /var/log/messages

Feb 19 14:50:53 vz1 shutdown: shutting down for system reboot
Feb 19 14:50:53 vz1 init: Switching to runlevel: 6
Feb 19 14:50:54 vz1 cups-config-daemon: cups-config-daemon -TERM succeeded
Feb 19 14:50:54 vz1 haldaemon: haldaemon shutdown failed
Feb 19 14:50:54 vz1 messagebus: messagebus -TERM succeeded
Feb 19 14:50:54 vz1 atd: atd shutdown succeeded
Feb 19 14:50:54 vz1 cups: cupsd shutdown succeeded
```

Feb 19 14:50:54 vz1 sshd: sshd -TERM succeeded
Feb 19 14:50:55 vz1 sendmail: sendmail shutdown succeeded
Feb 19 14:50:55 vz1 sendmail: sm-client shutdown succeeded
Feb 19 14:50:55 vz1 smartd: smartd shutdown failed
Feb 19 14:50:55 vz1 acpid: acpid shutdown succeeded
Feb 19 14:50:55 vz1 crond: crond shutdown succeeded
Feb 19 14:50:55 vz1 ntpd[8412]: ntpd exiting on signal 15
Feb 19 14:50:55 vz1 ntpd: ntpd shutdown succeeded
Feb 19 14:50:55 vz1 irqbalance: irqbalance shutdown succeeded
Feb 19 14:50:55 vz1 kernel: Kernel logging (proc) stopped.
Feb 19 14:50:55 vz1 kernel: Kernel log daemon terminating.
Feb 19 14:50:56 vz1 syslog: klogd shutdown succeeded
Feb 19 14:50:56 vz1 exiting on signal 15
Feb 19 14:52:47 vz1 syslogd 1.4.1: restart.
Feb 19 14:52:47 vz1 syslog: syslogd startup succeeded
Feb 19 14:52:47 vz1 kernel: klogd 1.4.1, log source = /proc/kmsg started.
Feb 19 14:52:47 vz1 kernel: Linux version 2.6.18-ovz028test015.1-smp (root@centos-32-build)
(gcc version 3.4.4 20050721 (Red Hat 3.4.4-2)) #1 SMP Fri Feb 2 13:48:19 MSK 2007
Feb 19 14:52:47 vz1 kernel: BIOS-provided physical RAM map:
Feb 19 14:52:47 vz1 kernel: BIOS-e820: 0000000000000000 - 000000000009ec00 (usable)
Feb 19 14:52:47 vz1 kernel: BIOS-e820: 000000000009ec00 - 00000000000a0000 (reserved)
Feb 19 14:52:47 vz1 kernel: BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)
Feb 19 14:52:47 vz1 kernel: BIOS-e820: 0000000000100000 - 000000008fffc000 (usable)
Feb 19 14:52:47 vz1 kernel: BIOS-e820: 000000008fffc000 - 0000000090000000 (ACPI data)
Feb 19 14:52:47 vz1 kernel: BIOS-e820: 00000000fec00000 - 00000000fec10000 (reserved)
Feb 19 14:52:47 vz1 kernel: BIOS-e820: 00000000fee00000 - 00000000fee10000 (reserved)
Feb 19 14:52:47 vz1 kernel: BIOS-e820: 00000000ffc00000 - 0000000100000000 (reserved)
Feb 19 14:52:47 vz1 kernel: 1407MB HIGHMEM available.
Feb 19 14:52:47 vz1 kernel: 896MB LOWMEM available.
Feb 19 14:52:47 vz1 kernel: found SMP MP-table at 000f4fd0
Feb 19 14:52:47 vz1 kernel: DMI 2.3 present.
Feb 19 14:52:47 vz1 syslog: klogd startup succeeded
Feb 19 14:52:47 vz1 kernel: ACPI: PM-Timer IO Port: 0x240
Feb 19 14:52:47 vz1 kernel: ACPI: LAPIC (acpi_id[0x00] lapic_id[0x00] enabled)
Feb 19 14:52:47 vz1 kernel: Processor #0 6:11 APIC version 17
Feb 19 14:52:47 vz1 kernel: ACPI: LAPIC (acpi_id[0x01] lapic_id[0x01] disabled)
Feb 19 14:52:47 vz1 kernel: ACPI: LAPIC (acpi_id[0x02] lapic_id[0x02] disabled)
Feb 19 14:52:47 vz1 kernel: ACPI: LAPIC (acpi_id[0x03] lapic_id[0x03] enabled)
Feb 19 14:52:47 vz1 kernel: Processor #3 6:11 APIC version 17
Feb 19 14:52:47 vz1 kernel: ACPI: LAPIC_NMI (acpi_id[0xff] dfl dfl lint[0x1])
Feb 19 14:52:47 vz1 kernel: ACPI: IOAPIC (id[0x08] address[0xfec00000] gsi_base[0])
Feb 19 14:52:47 vz1 kernel: IOAPIC[0]: apic_id 8, version 17, address 0xfec00000, GSI 0-15
Feb 19 14:52:47 vz1 kernel: ACPI: IOAPIC (id[0x02] address[0xfec01000] gsi_base[16])
Feb 19 14:52:47 vz1 kernel: IOAPIC[1]: apic_id 2, version 17, address 0xfec01000, GSI 16-31
Feb 19 14:52:47 vz1 kernel: ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 high edge)
Feb 19 14:52:47 vz1 kernel: Enabling APIC mode: Flat. Using 2 I/O APICs
Feb 19 14:52:47 vz1 kernel: Using ACPI (MADT) for SMP configuration information
Feb 19 14:52:47 vz1 kernel: Allocating PCI resources starting at 98000000 (gap:

90000000:6ec00000)
Feb 19 14:52:47 vz1 kernel: Detected 1396.444 MHz processor.
Feb 19 14:52:47 vz1 kernel: Built 1 zonelists. Total pages: 589820
Feb 19 14:52:47 vz1 kernel: Kernel command line: ro root=/dev/VolGroup00/LogVol00
Feb 19 14:52:47 vz1 kernel: Enabling fast FPU save and restore... done.
Feb 19 14:52:47 vz1 kernel: Enabling unmasked SIMD FPU exception support... done.
Feb 19 14:52:47 vz1 kernel: Initializing CPU#0
Feb 19 14:52:47 vz1 kernel: CPU 0 irqstacks, hard=c062c000 soft=c0624000
Feb 19 14:52:47 vz1 kernel: PID hash table entries: 4096 (order: 12, 16384 bytes)
Feb 19 14:52:47 vz1 kernel: Console: colour VGA+ 80x25
Feb 19 14:52:47 vz1 kernel: Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
Feb 19 14:52:47 vz1 kernel: Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
Feb 19 14:52:47 vz1 kernel: Memory: 2329680k/2359280k available (3793k kernel code, 28304k reserved, 1123k data, 300k init, 1441776k highmem)
Feb 19 14:52:47 vz1 kernel: Checking if this processor honours the WP bit even in supervisor mode... Ok.
Feb 19 14:52:47 vz1 kernel: Calibrating delay using timer specific routine.. 2793.48 BogoMIPS (lpj=1396740)
Feb 19 14:52:47 vz1 kernel: Mount-cache hash table entries: 512
Feb 19 14:52:47 vz1 kernel: CPU: L1 I cache: 16K, L1 D cache: 16K
Feb 19 14:52:47 vz1 kernel: CPU: L2 cache: 512K
Feb 19 14:52:47 vz1 kernel: Intel machine check architecture supported.
Feb 19 14:52:47 vz1 kernel: Intel machine check reporting enabled on CPU#0.
Feb 19 14:52:47 vz1 kernel: Compat vDSO mapped to ffffe000.
Feb 19 14:52:47 vz1 kernel: Checking 'hlt' instruction... OK.
Feb 19 14:52:47 vz1 kernel: Freeing SMP alternatives: 20k freed
Feb 19 14:52:47 vz1 kernel: ACPI: Core revision 20060707
Feb 19 14:52:47 vz1 kernel: Page beancounter hash is 262144 entries.
Feb 19 14:52:47 vz1 kernel: CPU0: Intel(R) Pentium(R) III CPU family   1400MHz stepping 01
Feb 19 14:52:47 vz1 kernel: Booting processor 1/0 eip 2000
Feb 19 14:52:47 vz1 kernel: CPU 1 irqstacks, hard=c062d000 soft=c0625000
Feb 19 14:52:47 vz1 kernel: Initializing CPU#1
Feb 19 14:52:47 vz1 kernel: Calibrating delay using timer specific routine.. 2792.55 BogoMIPS (lpj=1396276)
Feb 19 14:52:47 vz1 kernel: CPU: L1 I cache: 16K, L1 D cache: 16K
Feb 19 14:52:47 vz1 kernel: CPU: L2 cache: 512K
Feb 19 14:52:47 vz1 kernel: Intel machine check architecture supported.
Feb 19 14:52:47 vz1 kernel: Intel machine check reporting enabled on CPU#1.
Feb 19 14:52:47 vz1 kernel: CPU1: Intel(R) Pentium(R) III CPU family   1400MHz stepping 01
Feb 19 14:52:47 vz1 kernel: Total of 2 processors activated (5586.03 BogoMIPS).
Feb 19 14:52:47 vz1 kernel: ENABLING IO-APIC IRQs
Feb 19 14:52:47 vz1 kernel: ..TIMER: vector=0x31 apic1=0 pin1=2 apic2=-1 pin2=-1
Feb 19 14:52:47 vz1 kernel: ..MP-BIOS bug: 8254 timer not connected to IO-APIC
Feb 19 14:52:47 vz1 kernel: ...trying to set up timer (IRQ0) through the 8259A ... failed.
Feb 19 14:52:47 vz1 kernel: timer doesn't work through the IO-APIC - disabling NMI Watchdog!
Feb 19 14:52:47 vz1 kernel: ...trying to set up timer as Virtual Wire IRQ... works.
Feb 19 14:52:47 vz1 kernel: checking TSC synchronization across 2 CPUs: passed.
Feb 19 14:52:47 vz1 kernel: Brought up 2 CPUs

Feb 19 14:52:47 vz1 kernel: migration_cost=1274
Feb 19 14:52:47 vz1 kernel: checking if image is initramfs... it is
Feb 19 14:52:47 vz1 kernel: Freeing initrd memory: 872k freed
Feb 19 14:52:47 vz1 kernel: NET: Registered protocol family 16
Feb 19 14:52:47 vz1 kernel: ACPI: bus type pci registered
Feb 19 14:52:47 vz1 kernel: PCI: PCI BIOS revision 2.10 entry at 0xf0094, last bus=10
Feb 19 14:52:47 vz1 kernel: PCI: Using configuration type 1
Feb 19 14:52:47 vz1 kernel: Setting up standard PCI resources
Feb 19 14:52:47 vz1 kernel: mtrr: your CPUs had inconsistent fixed MTRR settings
Feb 19 14:52:47 vz1 kernel: mtrr: probably your BIOS does not setup all CPUs.
Feb 19 14:52:47 vz1 kernel: mtrr: corrected configuration.
Feb 19 14:52:47 vz1 kernel: ACPI: Interpreter enabled
Feb 19 14:52:47 vz1 kernel: ACPI: Using IOAPIC for interrupt routing
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Root Bridge [PCI0] (0000:00)
Feb 19 14:52:47 vz1 kernel: PCI: Firmware left 0000:00:02.0 e100 interrupts enabled, disabling
Feb 19 14:52:47 vz1 kernel: PCI: Firmware left 0000:00:04.0 e100 interrupts enabled, disabling
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Root Bridge [PCI1] (0000:01)
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Root Bridge [PCI2] (0000:07)
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Interrupt Link [INA0] (IRQs 15) *0, disabled.
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Interrupt Link [INA2] (IRQs 15) *0, disabled.
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Interrupt Link [INA4] (IRQs 15) *7
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Interrupt Link [INA5] (IRQs 15) *10
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Interrupt Link [INA6] (IRQs 15) *11
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Interrupt Link [INA7] (IRQs *15)
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Interrupt Link [INA8] (IRQs 15) *0, disabled.
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Interrupt Link [INAC] (IRQs 15) *0, disabled.
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Interrupt Link [INAD] (IRQs 15) *3
Feb 19 14:52:47 vz1 kernel: SCSI subsystem initialized
Feb 19 14:52:47 vz1 kernel: PCI: Using ACPI for IRQ routing
Feb 19 14:52:47 vz1 kernel: PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a report
Feb 19 14:52:47 vz1 kernel: PCI: Device 0000:00:00.0 not found by BIOS
Feb 19 14:52:47 vz1 kernel: PCI: Device 0000:00:00.1 not found by BIOS
Feb 19 14:52:47 vz1 kernel: PCI: Device 0000:00:00.2 not found by BIOS
Feb 19 14:52:47 vz1 kernel: PCI: Device 0000:00:00.3 not found by BIOS
Feb 19 14:52:47 vz1 kernel: PCI: Device 0000:00:0f.0 not found by BIOS
Feb 19 14:52:47 vz1 kernel: NET: Registered protocol family 2
Feb 19 14:52:47 vz1 kernel: IP route cache hash table entries: 32768 (order: 5, 131072 bytes)
Feb 19 14:52:47 vz1 kernel: TCP established hash table entries: 131072 (order: 8, 1048576 bytes)
Feb 19 14:52:47 vz1 kernel: TCP bind hash table entries: 65536 (order: 7, 524288 bytes)
Feb 19 14:52:47 vz1 kernel: TCP: Hash tables configured (established 131072 bind 65536)
Feb 19 14:52:47 vz1 kernel: TCP reno registered
Feb 19 14:52:47 vz1 kernel: highmem bounce pool size: 64 pages
Feb 19 14:52:47 vz1 kernel: VFS: Disk quotas dquot_6.5.1
Feb 19 14:52:47 vz1 kernel: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
Feb 19 14:52:47 vz1 kernel: Initializing Cryptographic API
Feb 19 14:52:47 vz1 kernel: io scheduler noop registered

Feb 19 14:52:47 vz1 kernel: io scheduler anticipatory registered
Feb 19 14:52:47 vz1 kernel: io scheduler deadline registered
Feb 19 14:52:47 vz1 kernel: io scheduler cfq registered (default)
Feb 19 14:52:47 vz1 kernel: pci_hotplug: PCI Hot Plug PCI Core version: 0.5
Feb 19 14:52:47 vz1 kernel: Real Time Clock Driver v1.12ac
Feb 19 14:52:47 vz1 kernel: Serial: 8250/16550 driver $Revision: 1.90 $ 4 ports, IRQ sharing disabled
Feb 19 14:52:47 vz1 kernel: serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
Feb 19 14:52:47 vz1 kernel: RAMDISK driver initialized: 16 RAM disks of 16384K size 1024 blocksize
Feb 19 14:52:47 vz1 kernel: Compaq SMART2 Driver (v 2.6.0)
Feb 19 14:52:47 vz1 kernel: HP CISS Driver (v 3.6.10)
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Interrupt 0000:00:01.0[A] -> GSI 16 (level, low) -> IRQ 16
Feb 19 14:52:47 vz1 kernel: cciss0: <0xb178> at PCI 0000:00:01.0 IRQ 16 using DAC
Feb 19 14:52:47 vz1 kernel: ACPI: PCI Interrupt 0000:07:04.0[A] -> GSI 29 (level, low) -> IRQ 17
Feb 19 14:52:47 vz1 kernel: cciss1: <0xb060> at PCI 0000:07:04.0 IRQ 17 using DAC
Feb 19 14:52:47 vz1 kernel: blocks= 284522880 block_size= 512
Feb 19 14:52:47 vz1 kernel: heads= 255, sectors= 32, cylinders= 34868
Feb 19 14:52:47 vz1 kernel:
Feb 19 14:52:47 vz1 kernel: blocks= 284522880 block_size= 512
Feb 19 14:52:47 vz1 kernel: heads= 255, sectors= 32, cylinders= 34868
Feb 19 14:52:47 vz1 kernel:
Feb 19 14:52:47 vz1 kernel: cciss/c1d0: p1 p2
Feb 19 14:52:47 vz1 kernel: Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
Feb 19 14:52:47 vz1 kernel: ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
Feb 19 14:52:47 vz1 kernel: SvrWks OSB4: IDE controller at PCI slot 0000:00:0f.1
Feb 19 14:52:47 vz1 kernel: SvrWks OSB4: chipset revision 0
Feb 19 14:52:47 vz1 kernel: SvrWks OSB4: not 100% native mode: will probe irqs later
Feb 19 14:52:47 vz1 kernel: ide0: BM-DMA at 0x2c00-0x2c07, BIOS settings: hda:pio, hdb:pio
Feb 19 14:52:47 vz1 kernel: ide1: BM-DMA at 0x2c08-0x2c0f, BIOS settings: hdc:pio, hdd:pio
Feb 19 14:52:48 vz1 kernel: hda: COMPAQ CD-ROM SN-124Q, ATAPI CD/DVD-ROM drive
Feb 19 14:52:48 vz1 kernel: ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
Feb 19 14:52:48 vz1 kernel: Loading iSCSI transport class v1.1-646.<6>Adaptec aacraid driver (1.1-5[2409]-mh2)
Feb 19 14:52:48 vz1 kernel: QLogic Fibre Channel HBA Driver
Feb 19 14:52:48 vz1 kernel: Emulex LightPulse Fibre Channel SCSI driver 8.1.9
Feb 19 14:52:48 vz1 kernel: Copyright(c) 2004-2006 Emulex. All rights reserved.
Feb 19 14:52:48 vz1 kernel: megaraid cmm: 2.20.2.7 (Release Date: Sun Jul 16 00:01:03 EST 2006)
Feb 19 14:52:48 vz1 kernel: megaraid: 2.20.4.9 (Release Date: Sun Jul 16 12:27:22 EST 2006)
Feb 19 14:52:48 vz1 kernel: megasas: 00.00.03.01 Sun May 14 22:49:52 PDT 2006
Feb 19 14:52:48 vz1 kernel: GDT-HA: Storage RAID Controller Driver. Version: 3.05
Feb 19 14:52:48 vz1 kernel: GDT-HA: Found 0 PCI Storage RAID Controllers
Feb 19 14:52:48 vz1 kernel: 3ware Storage Controller device driver for Linux v1.26.02.001.
Feb 19 14:52:48 vz1 kernel: 3ware 9000 Storage Controller device driver for Linux v2.26.02.007.
Feb 19 14:52:48 vz1 kernel: serio: i8042 AUX port at 0x60,0x64 irq 12
Feb 19 14:52:48 vz1 kernel: serio: i8042 KBD port at 0x60,0x64 irq 1

Feb 19 14:52:48 vz1 kernel: mice: PS/2 mouse device common for all mice
Feb 19 14:52:48 vz1 kernel: md: linear personality registered for level -1
Feb 19 14:52:48 vz1 kernel: md: raid0 personality registered for level 0
Feb 19 14:52:48 vz1 kernel: md: raid1 personality registered for level 1
Feb 19 14:52:48 vz1 kernel: md: raid10 personality registered for level 10
Feb 19 14:52:48 vz1 kernel: raid6: int32x1 453 MB/s
Feb 19 14:52:48 vz1 kernel: raid6: int32x2 566 MB/s
Feb 19 14:52:48 vz1 kernel: raid6: int32x4 394 MB/s
Feb 19 14:52:48 vz1 kernel: raid6: int32x8 378 MB/s
Feb 19 14:52:48 vz1 kernel: raid6: mmxx1 1351 MB/s
Feb 19 14:52:48 vz1 kernel: raid6: mmxx2 1613 MB/s
Feb 19 14:52:48 vz1 kernel: raid6: sse1x1 953 MB/s
Feb 19 14:52:48 vz1 kernel: raid6: sse1x2 1628 MB/s
Feb 19 14:52:48 vz1 kernel: raid6: using algorithm sse1x2 (1628 MB/s)
Feb 19 14:52:48 vz1 kernel: md: raid6 personality registered for level 6
Feb 19 14:52:48 vz1 kernel: md: raid5 personality registered for level 5
Feb 19 14:52:48 vz1 kernel: md: raid4 personality registered for level 4
Feb 19 14:52:48 vz1 kernel: raid5: automatically using best checksumming function: pIII_sse
Feb 19 14:52:48 vz1 kernel: pIII_sse : 3140.000 MB/sec
Feb 19 14:52:48 vz1 kernel: raid5: using function: pIII_sse (3140.000 MB/sec)
Feb 19 14:52:48 vz1 kernel: md: multipath personality registered for level -4
Feb 19 14:52:48 vz1 kernel: md: md driver 0.90.3 MAX_MD_DEVS=256, MD_SB_DISKS=27
Feb 19 14:52:48 vz1 kernel: md: bitmap version 4.39
Feb 19 14:52:48 vz1 kernel: device-mapper: ioctl: 4.7.0-ioctl (2006-06-24) initialised:
dm-devel@redhat.com
Feb 19 14:52:48 vz1 kernel: device-mapper: multipath: version 1.0.4 loaded
Feb 19 14:52:48 vz1 kernel: device-mapper: multipath round-robin: version 1.0.0 loaded
Feb 19 14:52:48 vz1 kernel: device-mapper: multipath emc: version 0.0.3 loaded
Feb 19 14:52:48 vz1 kernel: TCP bic registered
Feb 19 14:52:48 vz1 kernel: NET: Registered protocol family 1
Feb 19 14:52:48 vz1 kernel: NET: Registered protocol family 10
Feb 19 14:52:48 vz1 kernel: IPv6 over IPv4 tunneling driver
Feb 19 14:52:48 vz1 kernel: Starting balanced_irq
Feb 19 14:52:48 vz1 kernel: Using IPI Shortcut mode
Feb 19 14:52:48 vz1 kernel: Time: tsc clocksource has been installed.
Feb 19 14:52:48 vz1 kernel: Freeing unused kernel memory: 300k freed
Feb 19 14:52:48 vz1 kernel: input: AT Translated Set 2 keyboard as /class/input/input0
Feb 19 14:52:48 vz1 kernel: kjournald starting. Commit interval 5 seconds
Feb 19 14:52:48 vz1 kernel: EXT3-fs: mounted filesystem with ordered data mode.
Feb 19 14:52:48 vz1 kernel: input: ImPS/2 Generic Wheel Mouse as /class/input/input1
Feb 19 14:52:48 vz1 kernel: hda: ATAPI 24X CD-ROM drive, 128kB Cache
Feb 19 14:52:48 vz1 kernel: Uniform CD-ROM driver Revision: 3.20
Feb 19 14:52:48 vz1 kernel: Floppy drive(s): fd0 is 1.44M
Feb 19 14:52:48 vz1 kernel: FDC 0 is a National Semiconductor PC87306
Feb 19 14:52:48 vz1 kernel: Ethernet Channel Bonding Driver: v3.0.3 (March 23, 2006)
Feb 19 14:52:48 vz1 kernel: bonding: In ALB mode you might experience client disconnections
upon reconnection of a link if the bonding module updelay parameter (0 msec) is incompatible
with the forwarding delay time of the switch

Feb 19 14:52:48 vz1 kernel: bonding: MII link monitoring set to 100 ms
Feb 19 14:52:48 vz1 kernel: e100: Intel(R) PRO/100 Network Driver, 3.5.10-k2-NAPI
Feb 19 14:52:48 vz1 kernel: e100: Copyright(c) 1999-2005 Intel Corporation
Feb 19 14:52:48 vz1 kernel: ACPI: PCI Interrupt 0000:00:02.0[A] -> GSI 18 (level, low) -> IRQ 18
Feb 19 14:52:48 vz1 kernel: e100: eth0: e100_probe: addr 0xf7cb0000, irq 18, MAC addr 00:08:02:25:2E:F3
Feb 19 14:52:48 vz1 kernel: ACPI: PCI Interrupt 0000:00:04.0[A] -> GSI 20 (level, low) -> IRQ 19
Feb 19 14:52:48 vz1 kernel: e100: eth1: e100_probe: addr 0xf7af0000, irq 19, MAC addr 00:08:02:25:2E:F2
Feb 19 14:52:48 vz1 kernel: piix4_smbus 0000:00:0f.0: Found 0000:00:0f.0 device
Feb 19 14:52:48 vz1 kernel: piix4_smbus 0000:00:0f.0: SMB base address uninitialized - upgrade BIOS or use force_addr=0xaddr
Feb 19 14:52:48 vz1 kernel: usbcore: registered new driver usbfs
Feb 19 14:52:48 vz1 kernel: usbcore: registered new driver hub
Feb 19 14:52:48 vz1 kernel: ACPI: PCI Interrupt 0000:00:0f.2[A] -> GSI 22 (level, low) -> IRQ 20
Feb 19 14:52:48 vz1 kernel: ohci_hcd 0000:00:0f.2: OHCI Host Controller
Feb 19 14:52:48 vz1 kernel: ohci_hcd 0000:00:0f.2: new USB bus registered, assigned bus number 1
Feb 19 14:52:48 vz1 kernel: ohci_hcd 0000:00:0f.2: irq 20, io mem 0xf5fd0000
Feb 19 14:52:48 vz1 kernel: usb usb1: configuration #1 chosen from 1 choice
Feb 19 14:52:48 vz1 kernel: hub 1-0:1.0: USB hub found
Feb 19 14:52:48 vz1 kernel: hub 1-0:1.0: 4 ports detected
Feb 19 14:52:48 vz1 kernel: md: Autodetecting RAID arrays.
Feb 19 14:52:48 vz1 kernel: md: autorun ...
Feb 19 14:52:48 vz1 kernel: md: ... autorun DONE.
Feb 19 14:52:48 vz1 kernel: ACPI: Power Button (FF) [PWRF]
Feb 19 14:52:48 vz1 kernel: Using specific hotkey driver
Feb 19 14:52:48 vz1 kernel: ibm_acpi: ec object not found
Feb 19 14:52:48 vz1 kernel: ACPI: Getting cpuindex for acpiid 0x1
Feb 19 14:52:48 vz1 kernel: ACPI: Getting cpuindex for acpiid 0x2
Feb 19 14:52:48 vz1 kernel: ACPI: Thermal Zone [THM0] (8 C)
Feb 19 14:52:48 vz1 kernel: EXT3 FS on dm-0, internal journal
Feb 19 14:52:48 vz1 kernel: kjournald starting. Commit interval 5 seconds
Feb 19 14:52:48 vz1 kernel: EXT3 FS on cciss/c1d0p1, internal journal
Feb 19 14:52:48 vz1 kernel: EXT3-fs: mounted filesystem with ordered data mode.
Feb 19 14:52:48 vz1 kernel: Adding 2031608k swap on /dev/VolGroup00/LogVol01. Priority:-1 extents:1 across:2031608k
Feb 19 14:52:48 vz1 kernel: IA-32 Microcode Update Driver: v1.14a <tigran@veritas.com>
Feb 19 14:52:48 vz1 kernel: ip_tables: (C) 2000-2006 Netfilter Core Team
Feb 19 14:52:48 vz1 kernel: ip_conntrack version 2.4 (8192 buckets, 65536 max) - 208 bytes per conntrack
Feb 19 14:52:48 vz1 kernel: NET: Registered protocol family 17
Feb 19 14:52:48 vz1 kernel: ADDRCONF(NETDEV_UP): bond0: link is not ready
Feb 19 14:52:48 vz1 kernel: e100: eth0: e100_watchdog: link up, 100Mbps, full-duplex
Feb 19 14:52:48 vz1 kernel: bonding: bond0: making interface eth0 the new active one.
Feb 19 14:52:48 vz1 kernel: bonding: bond0: enslaving eth0 as an active interface with an up link.
Feb 19 14:52:48 vz1 kernel: ADDRCONF(NETDEV_CHANGE): bond0: link becomes ready
Feb 19 14:52:48 vz1 kernel: e100: eth1: e100_watchdog: link up, 100Mbps, full-duplex

Feb 19 14:52:48 vz1 kernel: bonding: bond0: enslaving eth1 as an active interface with an up link.
Feb 19 14:52:48 vz1 kernel: bonding: bond0: Warning: the permanent HWaddr of eth0 - 00:08:02:25:2E:F3 - is still in use by bond0. Set the HWaddr of eth0 to a different address to avoid conflicts.
Feb 19 14:52:48 vz1 kernel: bonding: bond0: releasing active interface eth0
Feb 19 14:52:48 vz1 kernel: bonding: bond0: making interface eth1 the new active one.
Feb 19 14:52:48 vz1 kernel: e100: eth0: e100_watchdog: link up, 100Mbps, full-duplex
Feb 19 14:52:48 vz1 kernel: bonding: bond0: Warning: the hw address of slave eth0 is in use by the bond; giving it the hw address of eth1
Feb 19 14:52:48 vz1 kernel: bonding: bond0: enslaving eth0 as an active interface with an up link.
Feb 19 14:52:48 vz1 kernel: bonding: bond0: releasing active interface eth1
Feb 19 14:52:48 vz1 kernel: bonding: bond0: making interface eth0 the new active one.
Feb 19 14:52:48 vz1 kernel: e100: eth1: e100_watchdog: link up, 100Mbps, full-duplex
Feb 19 14:52:48 vz1 kernel: bonding: bond0: enslaving eth1 as an active interface with an up link.
Feb 19 14:52:48 vz1 irqbalance: irqbalance startup succeeded
Feb 19 14:52:48 vz1 autofs: automount startup succeeded
Feb 19 14:52:48 vz1 smartd[8304]: smartd version 5.33 [i686-redhat-linux-gnu] Copyright (C) 2002-4 Bruce Allen
Feb 19 14:52:48 vz1 smartd[8304]: Home page is http://smartmontools.sourceforge.net/
Feb 19 14:52:48 vz1 smartd[8304]: Opened configuration file /etc/smartd.conf
Feb 19 14:52:48 vz1 smartd[8304]: Configuration file /etc/smartd.conf parsed but has no entries (like /dev/hda)
Feb 19 14:52:48 vz1 smartd[8304]: Unable to monitor any SMART enabled devices. Try debug (-d) option. Exiting...
Feb 19 14:52:48 vz1 smartd: smartd startup failed
Feb 19 14:52:48 vz1 acpid: acpid startup succeeded
Feb 19 14:52:49 vz1 kernel: lp: driver loaded but no devices found
Feb 19 14:52:49 vz1 cups: cupsd startup succeeded
Feb 19 14:52:49 vz1 sshd: succeeded
Feb 19 09:52:30 vz1 rc.sysinit: -e
Feb 19 09:52:31 vz1 udevsend[2451]: starting udevd daemon
Feb 19 09:52:34 vz1 start_udev: Starting udev: succeeded
Feb 19 09:52:36 vz1 rc.sysinit: -e
Feb 19 09:52:36 vz1 sysctl: net.ipv4.ip_forward = 0
Feb 19 09:52:36 vz1 sysctl: net.ipv4.conf.default.rp_filter = 1
Feb 19 09:52:36 vz1 sysctl: net.ipv4.conf.default.accept_source_route = 0
Feb 19 09:52:36 vz1 sysctl: kernel.sysrq = 0
Feb 19 09:52:36 vz1 sysctl: kernel.core_uses_pid = 1
Feb 19 09:52:36 vz1 rc.sysinit: Configuring kernel parameters: succeeded
Feb 19 14:52:38 vz1 date: Mon Feb 19 14:52:38 EST 2007
Feb 19 14:52:38 vz1 rc.sysinit: Setting clock (localtime): Mon Feb 19 14:52:38 EST 2007 succeeded
Feb 19 14:52:38 vz1 rc.sysinit: Loading default keymap succeeded
Feb 19 14:52:38 vz1 rc.sysinit: Setting hostname localhost.localdomain: succeeded
Feb 19 14:52:38 vz1 fsck: /dev/VolGroup00/LogVol00: clean, 117412/17514496 files, 1414610/35004416 blocks
Feb 19 14:52:38 vz1 rc.sysinit: Checking root filesystem succeeded
Feb 19 14:52:38 vz1 rc.sysinit: Remounting root filesystem in read-write mode: succeeded

Feb 19 14:52:38 vz1 lvm.static: 2 logical volume(s) in volume group VolGroup00 now active
Feb 19 14:52:38 vz1 rc.sysinit: Setting up Logical Volume Management: succeeded
Feb 19 14:52:38 vz1 fsck: /boot: clean, 57/26104 files, 39144/104388 blocks
Feb 19 14:52:38 vz1 rc.sysinit: Checking filesystems succeeded
Feb 19 14:52:38 vz1 rc.sysinit: Mounting local filesystems: succeeded
Feb 19 14:52:38 vz1 rc.sysinit: Enabling local filesystem quotas: succeeded
Feb 19 14:52:39 vz1 rc.sysinit: Enabling swap space: succeeded
Feb 19 14:52:39 vz1 init: Entering runlevel: 3
Feb 19 14:52:39 vz1 microcode_ctl: microcode_ctl startup succeeded
Feb 19 14:52:45 vz1 kudzu: succeeded
Feb 19 14:52:45 vz1 iptables: succeeded
Feb 19 14:52:45 vz1 sysctl: net.ipv4.ip_forward = 0
Feb 19 14:52:45 vz1 sysctl: net.ipv4.conf.default.rp_filter = 1
Feb 19 14:52:45 vz1 sysctl: net.ipv4.conf.default.accept_source_route = 0
Feb 19 14:52:45 vz1 sysctl: kernel.sysrq = 0
Feb 19 14:52:45 vz1 sysctl: kernel.core_uses_pid = 1
Feb 19 14:52:45 vz1 network: Setting network parameters: succeeded
Feb 19 14:52:45 vz1 network: Bringing up loopback interface: succeeded
Feb 19 14:52:45 vz1 ifup: Enslaving eth0 to bond0
Feb 19 14:52:46 vz1 ifup: Enslaving eth1 to bond0
Feb 19 14:52:46 vz1 ifup:
Feb 19 14:52:46 vz1 ifup: Determining IP information for bond0...
Feb 19 14:52:46 vz1 dhclient: DHCPREQUEST on bond0 to 255.255.255.255 port 67
Feb 19 14:52:46 vz1 dhclient: DHCPACK from 10.107.208.1
Feb 19 14:52:46 vz1 NET: /sbin/dhclient-script : updated /etc/resolv.conf
Feb 19 14:52:46 vz1 dhclient: bound to 10.107.208.110 -- renewal in 21549 seconds.
Feb 19 14:52:46 vz1 ifup: done.
Feb 19 14:52:46 vz1 ifup: Enslaving eth0 to bond0
Feb 19 14:52:46 vz1 ifup: Enslaving eth1 to bond0
Feb 19 14:52:47 vz1 network: Bringing up interface bond0: succeeded
Feb 19 14:52:53 vz1 ntpdate[8406]: step time server 10.107.208.1 offset -0.437524 sec
Feb 19 14:52:53 vz1 ntpd: succeeded
Feb 19 14:52:53 vz1 ntpd[8410]: ntpd 4.2.0a@1.1190-r Sun Aug 13 01:49:12 CDT 2006 (1)
Feb 19 14:52:53 vz1 ntpd: ntpd startup succeeded
Feb 19 14:52:54 vz1 ntpd[8410]: precision = 1.000 usec
Feb 19 14:52:54 vz1 ntpd[8410]: Listening on interface wildcard, 0.0.0.0#123
Feb 19 14:52:54 vz1 ntpd[8410]: Listening on interface wildcard, ::#123
Feb 19 14:52:54 vz1 ntpd[8410]: Listening on interface lo, 127.0.0.1#123
Feb 19 14:52:54 vz1 ntpd[8410]: Listening on interface bond0, 10.107.208.110#123
Feb 19 14:52:54 vz1 ntpd[8410]: kernel time sync status 0040
Feb 19 14:52:54 vz1 ntpd[8410]: frequency initialized 0.000 PPM from /var/lib/ntp/drift
Feb 19 14:52:54 vz1 sendmail: sendmail startup succeeded
Feb 19 14:52:54 vz1 sendmail: sm-client startup succeeded
Feb 19 14:52:54 vz1 crond: crond startup succeeded
Feb 19 14:52:54 vz1 anacron: anacron startup succeeded
Feb 19 14:52:54 vz1 atd: atd startup succeeded
Feb 19 14:52:54 vz1 messagebus: messagebus startup succeeded
Feb 19 14:52:54 vz1 cups-config-daemon: cups-config-daemon startup succeeded

Feb 19 14:52:54 vz1 haldaemon: haldaemon startup succeeded
Feb 19 14:56:06 vz1 ntpd[8410]: synchronized to LOCAL(0), stratum 5
Feb 19 14:56:06 vz1 ntpd[8410]: kernel time sync disabled 0041
Feb 19 14:57:11 vz1 ntpd[8410]: kernel time sync enabled 0001
Feb 19 14:58:10 vz1 sshd(pam_unix)[8885]: session opened for user root by root(uid=0)
Feb 19 14:58:14 vz1 ntpd[8410]: synchronized to 10.107.208.1, stratum 3

This is the messages file for the 2.6.18.6 kernel:

[root@vz1 ~]# cat /var/log/messages

Feb 19 15:02:37 vz1 shutdown: shutting down for system reboot
Feb 19 15:02:37 vz1 init: Switching to runlevel: 6
Feb 19 15:02:38 vz1 cups-config-daemon: cups-config-daemon -TERM succeeded
Feb 19 15:02:38 vz1 haldaemon: haldaemon shutdown failed
Feb 19 15:02:38 vz1 messagebus: messagebus -TERM succeeded
Feb 19 15:02:38 vz1 atd: atd shutdown succeeded
Feb 19 15:02:38 vz1 cups: cupsd shutdown succeeded
Feb 19 15:02:38 vz1 sshd: sshd -TERM succeeded
Feb 19 15:02:39 vz1 sendmail: sendmail shutdown succeeded
Feb 19 15:02:39 vz1 sendmail: sm-client shutdown succeeded
Feb 19 15:02:39 vz1 smartd: smartd shutdown failed
Feb 19 15:02:39 vz1 acpid: acpid shutdown succeeded
Feb 19 15:02:39 vz1 crond: crond shutdown succeeded
Feb 19 15:02:39 vz1 ntpd[8410]: ntpd exiting on signal 15
Feb 19 15:02:39 vz1 ntpd: ntpd shutdown succeeded
Feb 19 15:02:39 vz1 irqbalance: irqbalance shutdown succeeded
Feb 19 15:02:39 vz1 kernel: Kernel logging (proc) stopped.
Feb 19 15:02:39 vz1 kernel: Kernel log daemon terminating.
Feb 19 15:02:40 vz1 syslog: klogd shutdown succeeded
Feb 19 15:02:40 vz1 exiting on signal 15
Feb 19 15:04:34 vz1 syslogd 1.4.1: restart.
Feb 19 15:04:34 vz1 syslog: syslogd startup succeeded
Feb 19 15:04:34 vz1 kernel: klogd 1.4.1, log source = /proc/kmsg started.
Feb 19 15:04:34 vz1 kernel: Linux version 2.6.18.6 (root@vz1.home.arswiki.org) (gcc version 3.4.6 20060404 (Red Hat 3.4.6-3)) #2 SMP Mon Feb 19 13:54:19 EST 2007
Feb 19 15:04:34 vz1 kernel: BIOS-provided physical RAM map:
Feb 19 15:04:34 vz1 kernel: BIOS-e820: 0000000000000000 - 000000000009ec00 (usable)
Feb 19 15:04:34 vz1 kernel: BIOS-e820: 000000000009ec00 - 00000000000a0000 (reserved)
Feb 19 15:04:34 vz1 kernel: BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)
Feb 19 15:04:34 vz1 kernel: BIOS-e820: 0000000000100000 - 000000008fffc000 (usable)
Feb 19 15:04:34 vz1 kernel: BIOS-e820: 000000008fffc000 - 0000000090000000 (ACPI data)
Feb 19 15:04:34 vz1 kernel: BIOS-e820: 00000000fec00000 - 00000000fec10000 (reserved)
Feb 19 15:04:34 vz1 kernel: BIOS-e820: 00000000fee00000 - 00000000fee10000 (reserved)
Feb 19 15:04:34 vz1 kernel: BIOS-e820: 00000000ffc00000 - 0000000100000000 (reserved)
Feb 19 15:04:34 vz1 kernel: 1407MB HIGHMEM available.
Feb 19 15:04:34 vz1 kernel: 896MB LOWMEM available.
Feb 19 15:04:34 vz1 kernel: found SMP MP-table at 000f4fd0

Feb 19 15:04:34 vz1 syslog: klogd startup succeeded
Feb 19 15:04:34 vz1 kernel: DMI 2.3 present.
Feb 19 15:04:34 vz1 kernel: Using APIC driver default
Feb 19 15:04:34 vz1 kernel: ACPI: PM-Timer IO Port: 0x240
Feb 19 15:04:34 vz1 kernel: ACPI: LAPIC (acpi_id[0x00] lapic_id[0x00] enabled)
Feb 19 15:04:34 vz1 kernel: Processor #0 6:11 APIC version 17
Feb 19 15:04:34 vz1 kernel: ACPI: LAPIC (acpi_id[0x01] lapic_id[0x01] disabled)
Feb 19 15:04:34 vz1 kernel: ACPI: LAPIC (acpi_id[0x02] lapic_id[0x02] disabled)
Feb 19 15:04:34 vz1 kernel: ACPI: LAPIC (acpi_id[0x03] lapic_id[0x03] enabled)
Feb 19 15:04:34 vz1 kernel: Processor #3 6:11 APIC version 17
Feb 19 15:04:34 vz1 kernel: ACPI: LAPIC_NMI (acpi_id[0xff] dfl dfl lint[0x1])
Feb 19 15:04:34 vz1 kernel: ACPI: IOAPIC (id[0x08] address[0xfec00000] gsi_base[0])
Feb 19 15:04:34 vz1 kernel: IOAPIC[0]: apic_id 8, version 17, address 0xfec00000, GSI 0-15
Feb 19 15:04:34 vz1 kernel: ACPI: IOAPIC (id[0x02] address[0xfec01000] gsi_base[16])
Feb 19 15:04:34 vz1 kernel: IOAPIC[1]: apic_id 2, version 17, address 0xfec01000, GSI 16-31
Feb 19 15:04:34 vz1 kernel: ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 high edge)
Feb 19 15:04:34 vz1 kernel: Enabling APIC mode: Flat. Using 2 I/O APICs
Feb 19 15:04:34 vz1 kernel: Using ACPI (MADT) for SMP configuration information
Feb 19 15:04:34 vz1 kernel: Allocating PCI resources starting at 98000000 (gap:
90000000:6ec00000)
Feb 19 15:04:34 vz1 kernel: Detected 1396.496 MHz processor.
Feb 19 15:04:34 vz1 kernel: Built 1 zonelists. Total pages: 589820
Feb 19 15:04:34 vz1 kernel: Kernel command line: ro root=/dev/VolGroup00/LogVol00
Feb 19 15:04:34 vz1 kernel: Enabling fast FPU save and restore... done.
Feb 19 15:04:34 vz1 kernel: Enabling unmasked SIMD FPU exception support... done.
Feb 19 15:04:34 vz1 kernel: Initializing CPU#0
Feb 19 15:04:34 vz1 kernel: CPU 0 irqstacks, hard=c041c000 soft=c03fc000
Feb 19 15:04:34 vz1 kernel: PID hash table entries: 4096 (order: 12, 16384 bytes)
Feb 19 15:04:34 vz1 kernel: Console: colour VGA+ 80x25
Feb 19 15:04:34 vz1 kernel: Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
Feb 19 15:04:34 vz1 kernel: Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
Feb 19 15:04:34 vz1 kernel: Memory: 2329148k/2359280k available (1958k kernel code, 28824k
reserved, 847k data, 212k init, 1441776k highmem)
Feb 19 15:04:34 vz1 kernel: Checking if this processor honours the WP bit even in supervisor
mode... Ok.
Feb 19 15:04:34 vz1 kernel: Calibrating delay using timer specific routine.. 2794.43 BogoMIPS
(lpj=5588876)
Feb 19 15:04:34 vz1 kernel: Security Framework v1.0.0 initialized
Feb 19 15:04:34 vz1 kernel: SELinux: Initializing.
Feb 19 15:04:34 vz1 kernel: SELinux: Starting in permissive mode
Feb 19 15:04:34 vz1 kernel: selinux_register_security: Registering secondary module capability
Feb 19 15:04:34 vz1 kernel: Capability LSM initialized as secondary
Feb 19 15:04:34 vz1 kernel: Mount-cache hash table entries: 512
Feb 19 15:04:34 vz1 kernel: CPU: L1 I cache: 16K, L1 D cache: 16K
Feb 19 15:04:34 vz1 kernel: CPU: L2 cache: 512K
Feb 19 15:04:34 vz1 kernel: Intel machine check architecture supported.
Feb 19 15:04:34 vz1 kernel: Intel machine check reporting enabled on CPU#0.
Feb 19 15:04:34 vz1 kernel: Compat vDSO mapped to ffffe000.

Feb 19 15:04:34 vz1 kernel: Checking 'hlt' instruction... OK.
Feb 19 15:04:34 vz1 kernel: Freeing SMP alternatives: 12k freed
Feb 19 15:04:34 vz1 kernel: ACPI: Core revision 20060707
Feb 19 15:04:34 vz1 kernel: CPU0: Intel(R) Pentium(R) III CPU family 1400MHz stepping 01
Feb 19 15:04:34 vz1 kernel: Booting processor 1/0 eip 2000
Feb 19 15:04:34 vz1 kernel: CPU 1 irqstacks, hard=c041d000 soft=c03fd000
Feb 19 15:04:34 vz1 kernel: Initializing CPU#1
Feb 19 15:04:34 vz1 kernel: Calibrating delay using timer specific routine.. 2793.10 BogoMIPS (lpj=5586219)
Feb 19 15:04:34 vz1 kernel: CPU: L1 I cache: 16K, L1 D cache: 16K
Feb 19 15:04:34 vz1 kernel: CPU: L2 cache: 512K
Feb 19 15:04:34 vz1 kernel: Intel machine check architecture supported.
Feb 19 15:04:34 vz1 kernel: Intel machine check reporting enabled on CPU#1.
Feb 19 15:04:34 vz1 kernel: CPU1: Intel(R) Pentium(R) III CPU family 1400MHz stepping 01
Feb 19 15:04:34 vz1 kernel: Total of 2 processors activated (5587.54 BogoMIPS).
Feb 19 15:04:34 vz1 kernel: ENABLING IO-APIC IRQs
Feb 19 15:04:34 vz1 kernel: ..TIMER: vector=0x31 apic1=0 pin1=2 apic2=-1 pin2=-1
Feb 19 15:04:34 vz1 kernel: ..MP-BIOS bug: 8254 timer not connected to IO-APIC
Feb 19 15:04:34 vz1 kernel: ...trying to set up timer (IRQ0) through the 8259A ... failed.
Feb 19 15:04:34 vz1 kernel: ...trying to set up timer as Virtual Wire IRQ... works.
Feb 19 15:04:34 vz1 kernel: checking TSC synchronization across 2 CPUs: passed.
Feb 19 15:04:34 vz1 kernel: Brought up 2 CPUs
Feb 19 15:04:34 vz1 kernel: migration_cost=1535
Feb 19 15:04:34 vz1 kernel: checking if image is initramfs... it is
Feb 19 15:04:34 vz1 kernel: Freeing initrd memory: 1097k freed
Feb 19 15:04:34 vz1 kernel: NET: Registered protocol family 16
Feb 19 15:04:34 vz1 kernel: ACPI: bus type pci registered
Feb 19 15:04:34 vz1 kernel: PCI: PCI BIOS revision 2.10 entry at 0xf0094, last bus=10
Feb 19 15:04:34 vz1 kernel: PCI: Using configuration type 1
Feb 19 15:04:34 vz1 kernel: Setting up standard PCI resources
Feb 19 15:04:34 vz1 kernel: mtrr: your CPUs had inconsistent fixed MTRR settings
Feb 19 15:04:34 vz1 kernel: mtrr: probably your BIOS does not setup all CPUs.
Feb 19 15:04:34 vz1 kernel: mtrr: corrected configuration.
Feb 19 15:04:34 vz1 kernel: ACPI: Interpreter enabled
Feb 19 15:04:34 vz1 kernel: ACPI: Using IOAPIC for interrupt routing
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Root Bridge [PCI0] (0000:00)
Feb 19 15:04:34 vz1 kernel: PCI: Firmware left 0000:00:02.0 e100 interrupts enabled, disabling
Feb 19 15:04:34 vz1 kernel: PCI: Firmware left 0000:00:04.0 e100 interrupts enabled, disabling
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Root Bridge [PCI1] (0000:01)
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Root Bridge [PCI2] (0000:07)
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt Link [INA0] (IRQs 15) *0, disabled.
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt Link [INA2] (IRQs 15) *0, disabled.
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt Link [INA4] (IRQs 15) *7
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt Link [INA5] (IRQs 15) *10
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt Link [INA6] (IRQs 15) *11
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt Link [INA7] (IRQs *15)
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt Link [INA8] (IRQs 15) *0, disabled.
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt Link [INAC] (IRQs 15) *0, disabled.

Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt Link [INAD] (IRQs 15) *3
Feb 19 15:04:34 vz1 kernel: Linux Plug and Play Support v0.97 (c) Adam Belay
Feb 19 15:04:34 vz1 kernel: pnp: PnP ACPI init
Feb 19 15:04:34 vz1 kernel: pnp: PnP ACPI: found 11 devices
Feb 19 15:04:34 vz1 kernel: usbcore: registered new driver usbfs
Feb 19 15:04:34 vz1 kernel: usbcore: registered new driver hub
Feb 19 15:04:34 vz1 kernel: PCI: Using ACPI for IRQ routing
Feb 19 15:04:34 vz1 kernel: PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a report
Feb 19 15:04:34 vz1 kernel: PCI: Device 0000:00:00.0 not found by BIOS
Feb 19 15:04:34 vz1 kernel: PCI: Device 0000:00:00.1 not found by BIOS
Feb 19 15:04:34 vz1 kernel: PCI: Device 0000:00:00.2 not found by BIOS
Feb 19 15:04:34 vz1 kernel: PCI: Device 0000:00:00.3 not found by BIOS
Feb 19 15:04:34 vz1 kernel: PCI: Device 0000:00:0f.0 not found by BIOS
Feb 19 15:04:34 vz1 kernel: pnp: 00:01: ioport range 0xf50-0xf58 has been reserved
Feb 19 15:04:34 vz1 kernel: pnp: 00:01: ioport range 0x408-0x40f has been reserved
Feb 19 15:04:34 vz1 kernel: pnp: 00:01: ioport range 0x4d0-0x4d1 has been reserved
Feb 19 15:04:34 vz1 kernel: pnp: 00:01: ioport range 0xc06-0xc08 has been reserved
Feb 19 15:04:34 vz1 kernel: pnp: 00:01: ioport range 0xc14-0xc14 has been reserved
Feb 19 15:04:34 vz1 kernel: pnp: 00:01: ioport range 0xc49-0xc4a has been reserved
Feb 19 15:04:34 vz1 kernel: NET: Registered protocol family 2
Feb 19 15:04:34 vz1 kernel: IP route cache hash table entries: 32768 (order: 5, 131072 bytes)
Feb 19 15:04:34 vz1 kernel: TCP established hash table entries: 131072 (order: 9, 2621440 bytes)
Feb 19 15:04:34 vz1 kernel: TCP bind hash table entries: 65536 (order: 8, 1310720 bytes)
Feb 19 15:04:34 vz1 kernel: TCP: Hash tables configured (established 131072 bind 65536)
Feb 19 15:04:34 vz1 kernel: TCP reno registered
Feb 19 15:04:34 vz1 kernel: apm: BIOS not found.
Feb 19 15:04:34 vz1 kernel: audit: initializing netlink socket (disabled)
Feb 19 15:04:34 vz1 kernel: audit(1171897448.200:1): initialized
Feb 19 15:04:34 vz1 kernel: highmem bounce pool size: 64 pages
Feb 19 15:04:34 vz1 kernel: Total HugeTLB memory allocated, 0
Feb 19 15:04:34 vz1 kernel: VFS: Disk quotas dquot_6.5.1
Feb 19 15:04:34 vz1 kernel: Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
Feb 19 15:04:34 vz1 kernel: SELinux: Registering netfilter hooks
Feb 19 15:04:34 vz1 kernel: Initializing Cryptographic API
Feb 19 15:04:34 vz1 kernel: io scheduler noop registered
Feb 19 15:04:34 vz1 kernel: io scheduler anticipatory registered
Feb 19 15:04:34 vz1 kernel: io scheduler deadline registered
Feb 19 15:04:34 vz1 kernel: io scheduler cfq registered (default)
Feb 19 15:04:34 vz1 kernel: pci_hotplug: PCI Hot Plug PCI Core version: 0.5
Feb 19 15:04:34 vz1 kernel: ACPI: Getting cpuindex for acpiid 0x1
Feb 19 15:04:34 vz1 kernel: ACPI: Getting cpuindex for acpiid 0x2
Feb 19 15:04:34 vz1 kernel: ACPI: Thermal Zone [THM0] (8 C)
Feb 19 15:04:34 vz1 kernel: Real Time Clock Driver v1.12ac
Feb 19 15:04:34 vz1 kernel: Linux agpgart interface v0.101 (c) Dave Jones
Feb 19 15:04:34 vz1 kernel: agpgart: unable to determine aperture size.
Feb 19 15:04:34 vz1 kernel: agpgart: agp_backend_initialize() failed.

Feb 19 15:04:34 vz1 kernel: agpgart-serverworks: probe of 0000:00:00.0 failed with error -22
Feb 19 15:04:34 vz1 kernel: agpgart: unable to determine aperture size.
Feb 19 15:04:34 vz1 kernel: agpgart: agp_backend_initialize() failed.
Feb 19 15:04:34 vz1 kernel: agpgart-serverworks: probe of 0000:00:00.1 failed with error -22
Feb 19 15:04:34 vz1 kernel: agpgart: ServerWorks CNB20HE is unsupported due to lack of documentation.
Feb 19 15:04:34 vz1 kernel: agpgart: ServerWorks CNB20HE is unsupported due to lack of documentation.
Feb 19 15:04:34 vz1 kernel: [drm] Initialized drm 1.0.1 20051102
Feb 19 15:04:34 vz1 kernel: Serial: 8250/16550 driver $Revision: 1.90 $ 4 ports, IRQ sharing enabled
Feb 19 15:04:34 vz1 kernel: serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
Feb 19 15:04:34 vz1 kernel: 00:07: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
Feb 19 15:04:34 vz1 kernel: RAMDISK driver initialized: 16 RAM disks of 16384K size 1024 blocksize
Feb 19 15:04:34 vz1 kernel: Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
Feb 19 15:04:34 vz1 kernel: ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
Feb 19 15:04:34 vz1 kernel: SvrWks OSB4: IDE controller at PCI slot 0000:00:0f.1
Feb 19 15:04:34 vz1 kernel: SvrWks OSB4: chipset revision 0
Feb 19 15:04:34 vz1 kernel: SvrWks OSB4: not 100% native mode: will probe irqs later
Feb 19 15:04:34 vz1 kernel: ide0: BM-DMA at 0x2c00-0x2c07, BIOS settings: hda:pio, hdb:pio
Feb 19 15:04:34 vz1 kernel: ide1: BM-DMA at 0x2c08-0x2c0f, BIOS settings: hdc:pio, hdd:pio
Feb 19 15:04:34 vz1 kernel: hda: COMPAQ CD-ROM SN-124Q, ATAPI CD/DVD-ROM drive
Feb 19 15:04:34 vz1 kernel: ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
Feb 19 15:04:34 vz1 kernel: hda: ATAPI 24X CD-ROM drive, 128kB Cache
Feb 19 15:04:34 vz1 kernel: Uniform CD-ROM driver Revision: 3.20
Feb 19 15:04:34 vz1 kernel: ide-floppy driver 0.99.newide
Feb 19 15:04:34 vz1 kernel: usbmon: debugfs is not available
Feb 19 15:04:34 vz1 kernel: usbcore: registered new driver hiddev
Feb 19 15:04:34 vz1 kernel: usbcore: registered new driver usbhid
Feb 19 15:04:34 vz1 kernel: drivers/usb/input/hid-core.c: v2.6:USB HID core driver
Feb 19 15:04:34 vz1 kernel: PNP: PS/2 Controller [PNP0303:KBD,PNP0f0e:PS2M] at 0x60,0x64 irq 1,12
Feb 19 15:04:34 vz1 kernel: serio: i8042 AUX port at 0x60,0x64 irq 12
Feb 19 15:04:34 vz1 kernel: serio: i8042 KBD port at 0x60,0x64 irq 1
Feb 19 15:04:34 vz1 kernel: mice: PS/2 mouse device common for all mice
Feb 19 15:04:34 vz1 kernel: md: md driver 0.90.3 MAX_MD_DEVS=256, MD_SB_DISKS=27
Feb 19 15:04:34 vz1 kernel: md: bitmap version 4.39
Feb 19 15:04:34 vz1 kernel: TCP bic registered
Feb 19 15:04:34 vz1 kernel: Initializing IPsec netlink socket
Feb 19 15:04:34 vz1 kernel: NET: Registered protocol family 1
Feb 19 15:04:34 vz1 kernel: NET: Registered protocol family 17
Feb 19 15:04:34 vz1 kernel: Using IPI Shortcut mode
Feb 19 15:04:34 vz1 kernel: Freeing unused kernel memory: 212k freed
Feb 19 15:04:34 vz1 kernel: Time: tsc clocksource has been installed.
Feb 19 15:04:34 vz1 kernel: SCSI subsystem initialized
Feb 19 15:04:34 vz1 kernel: input: AT Translated Set 2 keyboard as /class/input/input0

Feb 19 15:04:34 vz1 kernel: HP CISS Driver (v 3.6.10)
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt 0000:00:01.0[A] -> GSI 16 (level, low) -> IRQ 169
Feb 19 15:04:34 vz1 kernel: cciss0: <0xb178> at PCI 0000:00:01.0 IRQ 169 using DAC
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt 0000:07:04.0[A] -> GSI 29 (level, low) -> IRQ 177
Feb 19 15:04:34 vz1 kernel: cciss1: <0xb060> at PCI 0000:07:04.0 IRQ 177 using DAC
Feb 19 15:04:34 vz1 kernel: blocks= 284522880 block_size= 512
Feb 19 15:04:34 vz1 kernel: heads= 255, sectors= 32, cylinders= 34868
Feb 19 15:04:34 vz1 kernel:
Feb 19 15:04:34 vz1 kernel: blocks= 284522880 block_size= 512
Feb 19 15:04:34 vz1 kernel: heads= 255, sectors= 32, cylinders= 34868
Feb 19 15:04:34 vz1 kernel:
Feb 19 15:04:34 vz1 kernel: cciss/c1d0: p1 p2
Feb 19 15:04:34 vz1 kernel: device-mapper: ioctl: 4.7.0-ioctl (2006-06-24) initialised: dm-devel@redhat.com
Feb 19 15:04:34 vz1 kernel: kjournald starting. Commit interval 5 seconds
Feb 19 15:04:34 vz1 kernel: EXT3-fs: mounted filesystem with ordered data mode.
Feb 19 15:04:34 vz1 kernel: SELinux: Disabled at runtime.
Feb 19 15:04:34 vz1 kernel: SELinux: Unregistering netfilter hooks
Feb 19 15:04:34 vz1 kernel: audit(1171897451.860:2): selinux=0 auid=4294967295
Feb 19 15:04:34 vz1 kernel: input: ImPS/2 Generic Wheel Mouse as /class/input/input1
Feb 19 15:04:34 vz1 kernel: Floppy drive(s): fd0 is 1.44M
Feb 19 15:04:34 vz1 kernel: FDC 0 is a National Semiconductor PC87306
Feb 19 15:04:34 vz1 kernel: Ethernet Channel Bonding Driver: v3.0.3 (March 23, 2006)
Feb 19 15:04:34 vz1 kernel: bonding: In ALB mode you might experience client disconnections upon reconnection of a link if the bonding module updelay parameter (0 msec) is incompatible with the forwarding delay time of the switch
Feb 19 15:04:34 vz1 kernel: bonding: MII link monitoring set to 100 ms
Feb 19 15:04:34 vz1 kernel: e100: Intel(R) PRO/100 Network Driver, 3.5.10-k2-NAPI
Feb 19 15:04:34 vz1 kernel: e100: Copyright(c) 1999-2005 Intel Corporation
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt 0000:00:02.0[A] -> GSI 18 (level, low) -> IRQ 185
Feb 19 15:04:34 vz1 kernel: e100: eth0: e100_probe: addr 0xf7cb0000, irq 185, MAC addr 00:08:02:25:2E:F3
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt 0000:00:04.0[A] -> GSI 20 (level, low) -> IRQ 193
Feb 19 15:04:34 vz1 kernel: e100: eth1: e100_probe: addr 0xf7af0000, irq 193, MAC addr 00:08:02:25:2E:F2
Feb 19 15:04:34 vz1 kernel: piix4_smbus 0000:00:0f.0: Found 0000:00:0f.0 device
Feb 19 15:04:34 vz1 kernel: piix4_smbus 0000:00:0f.0: SMB base address uninitialized - upgrade BIOS or use force_addr=0xaddr
Feb 19 15:04:34 vz1 kernel: ACPI: PCI Interrupt 0000:00:0f.2[A] -> GSI 22 (level, low) -> IRQ 201
Feb 19 15:04:34 vz1 kernel: ohci_hcd 0000:00:0f.2: OHCI Host Controller
Feb 19 15:04:34 vz1 kernel: ohci_hcd 0000:00:0f.2: new USB bus registered, assigned bus number 1
Feb 19 15:04:34 vz1 kernel: ohci_hcd 0000:00:0f.2: irq 201, io mem 0xf5fd0000
Feb 19 15:04:34 vz1 kernel: usb usb1: configuration #1 chosen from 1 choice
Feb 19 15:04:34 vz1 kernel: hub 1-0:1.0: USB hub found
Feb 19 15:04:34 vz1 kernel: hub 1-0:1.0: 4 ports detected
Feb 19 15:04:34 vz1 kernel: md: Autodetecting RAID arrays.
Feb 19 15:04:34 vz1 kernel: md: autorun ...

Feb 19 15:04:34 vz1 kernel: md: ... autorun DONE.
Feb 19 15:04:34 vz1 kernel: ACPI: Power Button (FF) [PWRF]
Feb 19 15:04:34 vz1 kernel: EXT3 FS on dm-0, internal journal
Feb 19 15:04:34 vz1 kernel: kjournald starting. Commit interval 5 seconds
Feb 19 15:04:34 vz1 kernel: EXT3 FS on cciss/c1d0p1, internal journal
Feb 19 15:04:34 vz1 kernel: EXT3-fs: mounted filesystem with ordered data mode.
Feb 19 15:04:34 vz1 kernel: Adding 2031608k swap on /dev/VolGroup00/LogVol01. Priority:-1 extents:1 across:2031608k
Feb 19 15:04:34 vz1 kernel: IA-32 Microcode Update Driver: v1.14a <tigran@veritas.com>
Feb 19 15:04:34 vz1 kernel: e100: eth0: e100_watchdog: link up, 100Mbps, full-duplex
Feb 19 15:04:34 vz1 kernel: bonding: bond0: making interface eth0 the new active one.
Feb 19 15:04:34 vz1 kernel: BUG: sleeping function called from invalid context at mm/slab.c:2901
Feb 19 15:04:34 vz1 kernel: in_atomic():1, irqs_disabled():0
Feb 19 15:04:34 vz1 kernel: [<c0119f64>] __might_sleep+0x92/0x9a
Feb 19 15:04:34 vz1 kernel: [<c0157d91>] kmem_cache_alloc+0x1b/0x54
Feb 19 15:04:34 vz1 kernel: [<c028be33>] __alloc_skb+0x25/0xeb
Feb 19 15:04:34 vz1 kernel: [<c0298c6e>] rtmsg_ifinfo+0x1b/0x66
Feb 19 15:04:34 vz1 kernel: [<c0298efd>] rtnetlink_event+0x35/0x38
Feb 19 15:04:34 vz1 kernel: [<c02e8450>] notifier_call_chain+0x1b/0x32
Feb 19 15:04:34 vz1 kernel: [<c0291f21>] dev_set_mac_address+0x42/0x49
Feb 19 15:04:34 vz1 kernel: [<f89972ee>] alb_set_slave_mac_addr+0x5a/0x7f [bonding]
Feb 19 15:04:34 vz1 kernel: [<f89973a2>] alb_swap_mac_addr+0x8f/0x147 [bonding]
Feb 19 15:04:34 vz1 kernel: [<f8997c88>] bond_alb_handle_active_change+0x78/0xca [bonding]
Feb 19 15:04:34 vz1 kernel: [<f8990d0b>] bond_change_active_slave+0x108/0x1a6 [bonding]
Feb 19 15:04:34 vz1 kernel: [<f89913a7>] bond_enslave+0x4d3/0x5c4 [bonding]
Feb 19 15:04:34 vz1 kernel: [<f89934cd>] bond_do_ioctl+0x1cd/0x214 [bonding]
Feb 19 15:04:34 vz1 kernel: [<c02e4cee>] packet_notifier+0x126/0x12d
Feb 19 15:04:34 vz1 kernel: [<f8993300>] bond_do_ioctl+0x0/0x214 [bonding]
Feb 19 15:04:34 vz1 kernel: [<c0292305>] dev_ifsioc+0x3dd/0x3e8
Feb 19 15:04:34 vz1 kernel: [<c02925ce>] dev_ioctl+0x2be/0x3a3
Feb 19 15:04:34 vz1 kernel: [<c02888e1>] sock_ioctl+0x1af/0x1b8
Feb 19 15:04:34 vz1 kernel: [<c0288732>] sock_ioctl+0x0/0x1b8
Feb 19 15:04:34 vz1 kernel: [<c0169dff>] do_ioctl+0x23/0x60
Feb 19 15:04:34 vz1 kernel: [<c016a0c0>] vfs_ioctl+0x187/0x195
Feb 19 15:04:34 vz1 kernel: [<c016a114>] sys_ioctl+0x46/0x5e
Feb 19 15:04:34 vz1 kernel: [<c0103221>] sysenter_past_esp+0x56/0x79
Feb 19 15:04:34 vz1 kernel: bonding: bond0: enslaving eth0 as an active interface with an up link.
Feb 19 15:04:34 vz1 kernel: e100: eth1: e100_watchdog: link up, 100Mbps, full-duplex
Feb 19 15:04:34 vz1 kernel: bonding: bond0: enslaving eth1 as an active interface with an up link.
Feb 19 15:04:34 vz1 kernel: bonding: bond0: Warning: the permanent HWaddr of eth0 - 00:08:02:25:2E:F3 - is still in use by bond0. Set the HWaddr of eth0 to a different address to avoid conflicts.
Feb 19 15:04:34 vz1 kernel: bonding: bond0: releasing active interface eth0
Feb 19 15:04:34 vz1 kernel: bonding: bond0: making interface eth1 the new active one.
Feb 19 15:04:34 vz1 kernel: e100: eth0: e100_watchdog: link up, 100Mbps, full-duplex
Feb 19 15:04:34 vz1 kernel: bonding: bond0: Warning: the hw address of slave eth0 is in use by the bond; giving it the hw address of eth1
Feb 19 15:04:34 vz1 kernel: bonding: bond0: enslaving eth0 as an active interface with an up link.

Feb 19 15:04:34 vz1 kernel: bonding: bond0: releasing active interface eth1
Feb 19 15:04:34 vz1 kernel: bonding: bond0: making interface eth0 the new active one.
Feb 19 15:04:34 vz1 kernel: e100: eth1: e100_watchdog: link up, 100Mbps, full-duplex
Feb 19 15:04:34 vz1 kernel: bonding: bond0: enslaving eth1 as an active interface with an up link.
Feb 19 15:04:34 vz1 irqbalance: irqbalance startup succeeded
Feb 19 15:04:35 vz1 autofs: automount startup succeeded
Feb 19 15:04:35 vz1 smartd[2467]: smartd version 5.33 [i686-redhat-linux-gnu] Copyright (C) 2002-4 Bruce Allen
Feb 19 15:04:35 vz1 smartd[2467]: Home page is http://smartmontools.sourceforge.net/
Feb 19 15:04:35 vz1 smartd[2467]: Opened configuration file /etc/smartd.conf
Feb 19 15:04:35 vz1 smartd[2467]: Configuration file /etc/smartd.conf parsed but has no entries (like /dev/hda)
Feb 19 15:04:35 vz1 smartd[2467]: Unable to monitor any SMART enabled devices. Try debug (-d) option. Exiting...
Feb 19 15:04:35 vz1 smartd: smartd startup failed
Feb 19 15:04:35 vz1 acpid: acpid startup succeeded
Feb 19 15:04:36 vz1 kernel: lp: driver loaded but no devices found
Feb 19 15:04:36 vz1 cups: cupsd startup succeeded
Feb 19 15:04:36 vz1 kernel: NET: Registered protocol family 10
Feb 19 15:04:36 vz1 kernel: lo: Disabled Privacy Extensions
Feb 19 15:04:36 vz1 kernel: IPv6 over IPv4 tunneling driver
Feb 19 15:04:36 vz1 sshd: succeeded
Feb 19 10:04:13 vz1 rc.sysinit: -e
Feb 19 10:04:14 vz1 start_udev: Starting udev: succeeded
Feb 19 10:04:18 vz1 udevsend[1183]: starting udevd daemon
Feb 19 10:04:20 vz1 rc.sysinit: -e
Feb 19 10:04:20 vz1 sysctl: net.ipv4.ip_forward = 0
Feb 19 10:04:20 vz1 sysctl: net.ipv4.conf.default.rp_filter = 1
Feb 19 10:04:20 vz1 sysctl: net.ipv4.conf.default.accept_source_route = 0
Feb 19 10:04:20 vz1 sysctl: kernel.sysrq = 0
Feb 19 10:04:20 vz1 sysctl: kernel.core_uses_pid = 1
Feb 19 10:04:20 vz1 rc.sysinit: Configuring kernel parameters: succeeded
Feb 19 15:04:22 vz1 date: Mon Feb 19 15:04:22 EST 2007
Feb 19 15:04:22 vz1 rc.sysinit: Setting clock (localtime): Mon Feb 19 15:04:22 EST 2007 succeeded
Feb 19 15:04:22 vz1 rc.sysinit: Loading default keymap succeeded
Feb 19 15:04:22 vz1 rc.sysinit: Setting hostname localhost.localdomain: succeeded
Feb 19 15:04:22 vz1 fsck: /dev/VolGroup00/LogVol00: clean, 117412/17514496 files, 1414616/35004416 blocks
Feb 19 15:04:22 vz1 rc.sysinit: Checking root filesystem succeeded
Feb 19 15:04:22 vz1 rc.sysinit: Remounting root filesystem in read-write mode: succeeded
Feb 19 15:04:22 vz1 lvm.static: 2 logical volume(s) in volume group VolGroup00 now active
Feb 19 15:04:22 vz1 rc.sysinit: Setting up Logical Volume Management: succeeded
Feb 19 15:04:22 vz1 fsck: /boot: clean, 57/26104 files, 39144/104388 blocks
Feb 19 15:04:22 vz1 rc.sysinit: Checking filesystems succeeded
Feb 19 15:04:22 vz1 rc.sysinit: Mounting local filesystems: succeeded
Feb 19 15:04:22 vz1 rc.sysinit: Enabling local filesystem quotas: succeeded
Feb 19 15:04:23 vz1 rc.sysinit: Enabling swap space: succeeded

Feb 19 15:04:23 vz1 init: Entering runlevel: 3
Feb 19 15:04:23 vz1 microcode_ctl: microcode_ctl startup succeeded
Feb 19 15:04:32 vz1 kudzu: succeeded
Feb 19 15:04:32 vz1 modprobe: FATAL: Module ip_tables not found.
Feb 19 15:04:32 vz1 iptables: failed
Feb 19 15:04:32 vz1 sysctl: net.ipv4.ip_forward = 0
Feb 19 15:04:32 vz1 sysctl: net.ipv4.conf.default.rp_filter = 1
Feb 19 15:04:32 vz1 sysctl: net.ipv4.conf.default.accept_source_route = 0
Feb 19 15:04:32 vz1 sysctl: kernel.sysrq = 0
Feb 19 15:04:32 vz1 sysctl: kernel.core_uses_pid = 1
Feb 19 15:04:32 vz1 network: Setting network parameters: succeeded
Feb 19 15:04:33 vz1 modprobe: FATAL: Module ip_tables not found.
Feb 19 15:04:33 vz1 modprobe: FATAL: Module ip_tables not found.
Feb 19 15:04:33 vz1 network: Bringing up loopback interface: succeeded
Feb 19 15:04:33 vz1 ifup: Enslaving eth0 to bond0
Feb 19 15:04:33 vz1 ifup: Enslaving eth1 to bond0
Feb 19 15:04:33 vz1 modprobe: FATAL: Module ip_tables not found.
Feb 19 15:04:33 vz1 ifup:
Feb 19 15:04:33 vz1 ifup: Determining IP information for bond0...
Feb 19 15:04:33 vz1 dhclient: DHCPREQUEST on bond0 to 255.255.255.255 port 67
Feb 19 15:04:33 vz1 dhclient: DHCPACK from 10.107.208.1
Feb 19 15:04:33 vz1 NET: /sbin/dhclient-script : updated /etc/resolv.conf
Feb 19 15:04:34 vz1 dhclient: bound to 10.107.208.110 -- renewal in 17667 seconds.
Feb 19 15:04:34 vz1 ifup: done.
Feb 19 15:04:34 vz1 ifup: Enslaving eth0 to bond0
Feb 19 15:04:34 vz1 ifup: Enslaving eth1 to bond0
Feb 19 15:04:34 vz1 modprobe: FATAL: Module ip_tables not found.
Feb 19 15:04:34 vz1 network: Bringing up interface bond0: succeeded
Feb 19 15:04:40 vz1 ntpdate[2617]: step time server 10.107.208.1 offset -0.476392 sec
Feb 19 15:04:40 vz1 ntpd: succeeded
Feb 19 15:04:40 vz1 ntpd[2623]: ntpd 4.2.0a@1.1190-r Sun Aug 13 01:49:12 CDT 2006 (1)
Feb 19 15:04:40 vz1 ntpd: ntpd startup succeeded
Feb 19 15:04:41 vz1 ntpd[2623]: precision = 1.000 usec
Feb 19 15:04:41 vz1 ntpd[2623]: Listening on interface wildcard, 0.0.0.0#123
Feb 19 15:04:41 vz1 ntpd[2623]: Listening on interface wildcard, ::#123
Feb 19 15:04:41 vz1 ntpd[2623]: Listening on interface lo, 127.0.0.1#123
Feb 19 15:04:41 vz1 ntpd[2623]: Listening on interface bond0, 10.107.208.110#123
Feb 19 15:04:41 vz1 ntpd[2623]: kernel time sync status 0040
Feb 19 15:04:41 vz1 ntpd[2623]: frequency initialized 0.000 PPM from /var/lib/ntp/drift
Feb 19 15:04:41 vz1 sendmail: sendmail startup succeeded
Feb 19 15:04:41 vz1 sendmail: sm-client startup succeeded
Feb 19 15:04:41 vz1 crond: crond startup succeeded
Feb 19 15:04:41 vz1 anacron: anacron startup succeeded
Feb 19 15:04:41 vz1 atd: atd startup succeeded
Feb 19 15:04:41 vz1 messagebus: messagebus startup succeeded
Feb 19 15:04:41 vz1 cups-config-daemon: cups-config-daemon startup succeeded
Feb 19 15:04:42 vz1 haldaemon: haldaemon startup succeeded
Feb 19 15:04:45 vz1 sshd(pam_unix)[3092]: session opened for user root by root(uid=0)

When I echo "engage scsi" to the cciss devices, the following is recorded in /var/log/messages:

Feb 19 15:05:48 vz1 kernel: cciss0: No device changes detected.
Feb 19 15:05:48 vz1 kernel: cciss0: No appropriate SCSI device detected, SCSI subsystem not engaged.
Feb 19 15:05:49 vz1 kernel: scsi0 : cciss
Feb 19 15:05:49 vz1 kernel: Vendor: COMPAQ Model: SDX-500C Rev: 1.32
Feb 19 15:05:49 vz1 kernel: Type: Sequential-Access ANSI SCSI revision: 02
Feb 19 15:05:49 vz1 scsi.agent[3142]: tape at /devices/pci0000:07/0000:07:04.0/host0/target0:0:0/0:0:0:0
Feb 19 15:05:49 vz1 kernel: st: Version 20050830, fixed bufsize 32768, s/g segs 256
Feb 19 15:05:50 vz1 kernel: st 0:0:0:0: Attached scsi tape st0
Feb 19 15:05:50 vz1 kernel: st0: try direct i/o: yes (alignment 512 B)
Axton Grams

Subject: Re: DL380 G2 - CCISS
Posted by gramsa49 on Mon, 19 Feb 2007 21:33:04 GMT
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gramsa49 wrote on Mon, 19 February 2007 15:07...
I am going to try buliding the cciss 3.6.10 driver with the latest stable kernel now.
...
Axton Grams

Unfortunately, it looks like neither the 3.6.10 or 3.6.14 cciss driver will build against the 2.6.9-023stab040.1-smp kernel. It looks like there were some updates in this area in the 2.6.16 or 13 kernel that this driver needs. See http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-11/6682.html

Not too relavent, but the compile errors
make[1]: Entering directory `/lib/modules/2.6.9-023stab040.1-smp/build'
  CC [M] /usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.o
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:229: error: unknown field `getgeo' specified in initializer
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:229: warning: initialization from incompatible pointer type
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:396: warning: initialization from incompatible pointer type
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:397: warning: initialization from incompatible pointer type
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:398: warning: initialization from incompatible pointer type
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c: In function `cciss_softirq_done':
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:1312: error: structure has no member named `completion_data'
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:1338: error: too many arguments to function `end_that_request_last'

/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c: In function
`cciss_update_drive_info':
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:1434: warning: implicit declaration of function `blk_queue_softirq_done'
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c: In function `cciss_geometry_inquiry':
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:2042: warning: long long int format, different type arg (arg 4)
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:2042: warning: long long int format, different type arg (arg 4)
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c: In function `pollcomplete':
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:2173: warning: implicit declaration of function `schedule_timeout_uninterruptible'
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c: In function `complete_command':
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:2562: error: structure has no member named `completion_data'
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:2564: warning: implicit declaration of function `blk_complete_request'
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c: At top level:
/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.c:185: warning: 'revalidate_allvol' declared `static' but never defined
make[2]: *** [/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block/cciss.o] Error 1
make[1]: *** [_module_/usr/src/redhat/BUILD/cpq_cciss-3.6.14/drivers/block] Error 2
make[1]: Leaving directory `/lib/modules/2.6.9-023stab040.1-smp/build'
make: *** [cciss.ko] Error 2
error: Bad exit status from /var/tmp/rpm-tmp.89462 (%build)

RPM build errors:
    Bad exit status from /var/tmp/rpm-tmp.89462 (%build)

Subject: Re: DL380 G2 - CCISS
Posted by Vasily Tarasov on Tue, 20 Feb 2007 06:34:31 GMT
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Hello,

So, as far as I understand from your posts, on 2.6.18 OpenVZ kernels there is no problem with your device, am I right?

Thanks,
Vasily

Subject: Re: DL380 G2 - CCISS
Posted by gramsa49 on Tue, 20 Feb 2007 14:37:29 GMT

Vasily Tarasov wrote on Tue, 20 February 2007 01:34Hello,

So, as far as I understand from your posts, on 2.6.18 OpenVZ kernels there is no problem with your device, am I right?

Thanks,
Vasily

On the 2.6.18 stock kernel (from kernel.org), the device engages properly and works fine. On the 2.6.18 OpenVZ kernel, the device will not register/engage.

Axton Grams

Subject: Re: DL380 G2 - CCISS
Posted by gramsa49 on Sun, 11 Nov 2007 19:01:51 GMT

As an update to this thread, for the sake of posterity, things are working well these days.

[root@vz1 ~]# uname -a
Linux vz1.home.arswiki.org 2.6.18-8.1.15.el5.028stab047.1ent #1 SMP Tue Oct 23 16:11:08 MSD 2007 i686 i686 i386 GNU/Linux

From /var/log/messages:

Nov 9 23:53:29 vz1 kernel: cciss0: No appropriate SCSI device detected, SCSI subsystem not engaged.
Nov 9 23:53:29 vz1 kernel: scsi0 : cciss
Nov 9 23:53:29 vz1 kernel: Vendor: COMPAQ Model: SDX-500C Rev: 1.32
Nov 9 23:53:29 vz1 kernel: Type: Sequential-Access ANSI SCSI revision: 02
Nov 9 23:53:29 vz1 kernel: scsi 0:0:0:0: Attached scsi generic sg0 type 1
Nov 9 23:53:29 vz1 rc: Starting tape_st: succeeded
Nov 9 23:53:29 vz1 scsi.agent[12320]: tape at /devices/pci0000:07/0000:07:04.0/host0/target0:0:0/0:0:0:0
Nov 9 23:53:29 vz1 kernel: st: Version 20050830, fixed bufsize 32768, s/g segs 256
Nov 9 23:53:29 vz1 kernel: st 0:0:0:0: Attached scsi tape st0
Nov 9 23:53:29 vz1 kernel: st0: try direct i/o: yes (alignment 512 B)

Thanks,
Axton Grams