

Re: linux box HDD size question

Source: <http://linux.derkeiler.com/Mailing-Lists/Fedora/2006-03/msg02397.html>

- *From:* M E Fieu <sibu168@xxxxxxxxxx>
 - *Date:* Thu, 16 Mar 2006 20:31:28 -0800 (PST)
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----- Steffen Kluge <kluge@xxxxxxxxxxxxxxxx> wrote:

On Thu, 2006-03-16 at 22:15 -0500, Sam Varshavchik wrote:

```
[root@linux root]# df -h
Filesystem Size Used Avail Use% Mounted on
/dev/sda3 4.0G 289M 3.5G 8% /
/dev/sda9 6.6G 1.9G 4.5G 30% /apps
/dev/sda1 250M 45M 193M 19% /boot
/dev/sda6 5.0G 1.7G 3.1G 36% /home
none 1.3G 0 1.3G 0% /dev/shm
/dev/sda8 2.0G 83M 1.8G 5% /tmp
/dev/sda7 4.0G 3.1G 712M 82% /usr
/dev/sda5 6.9G 157M 6.4G 3% /var
```

The above adds up to about 30 gig. There are no RAID volumes. RAID volumes would show up as /dev/md?? filesystems.

Hardware RAID controllers will present the array as single SCSI disc, looking just like the above. To find out whether a RAID controller or an ordinary SCSI controller is used the file /var/log/dmesg can be consulted. It usually also talks about the type of RAID, and the size of the disk(s).

Cheers
Steffen.
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Below is my Dmesg log, I can't find the RAID type 1 ,2 ,5 etc and disk size

Linux version 2.4.21-32.EL (bhcompile@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx) (gcc version 3.2.3 20030502 (Red Hat Linux 3.2.3-52)) #1 Fri Apr 15 21:29:19 EDT 2005

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BIOS-provided physical RAM map:
BIOS-e820: 0000000000000000 – 000000000009c000 (usable)
BIOS-e820: 000000000009c000 – 00000000000a0000 (reserved)
BIOS-e820: 00000000000e0000 – 0000000000100000 (reserved)
BIOS-e820: 0000000000100000 – 0000000009ffdb300 (usable)
BIOS-e820: 0000000009ffdb300 – 0000000009ffe0000 (ACPI data)
BIOS-e820: 0000000009ffe0000 – 00000000a0000000 (reserved)
BIOS-e820: 00000000fec00000 – 0000000100000000 (reserved)
1663MB HIGHMEM available.
896MB LOWMEM available.
NX protection not present; using segment protection
On node 0 totalpages: 655323
zone(0): 4096 pages.
zone(1): 225280 pages.
zone(2): 425947 pages.
IBM machine detected. Enabling interrupts during APM calls.
Kernel command line: ro root=LABEL=
Initializing CPU#0
Detected 3060.085 MHz processor.
Console: colour VGA+ 80x25
Calibrating delay loop... 6107.95 BogoMIPS
Page-cache hash table entries: 1048576 (order: 10, 4096 KB)
Page-pin hash table entries: 262144 (order: 8, 1024 KB)
Dentry cache hash table entries: 524288 (order: 10, 4096 KB)
Inode cache hash table entries: 262144 (order: 9, 2048 KB)
Buffer cache hash table entries: 262144 (order: 8, 1024 KB)
Memory: 2564772k/2621292k available (1543k kernel code, 51896k reserved, 1071k data, 164k init,
1703788k highmem)
zapping low mappings.
Mount cache hash table entries: 512 (order: 0, 4096 bytes)
CPU: Trace cache: 12K uops, L1 D cache: 8K
CPU: L2 cache: 512K
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
CPU: After generic, caps: bfebfbff 00000000 00000000 00000000
CPU: Common caps: bfebfbff 00000000 00000000 00000000
CPU: Intel(R) Xeon(TM) CPU 3.06GHz stepping 09
Enabling fast FPU save and restore... done.
Enabling unmasked SIMD FPU exception support... done.
Checking 'hlt' instruction... OK.
POSIX conformance testing by UNIFIX
Process timing init...done.
mtrr: v1.40 (20010327) Richard Gooch (rgooch@xxxxxxxxxxxxxx)
mtrr: detected mtrr type: Intel
PCI: PCI BIOS revision 2.10 entry at 0xfd7dc, last bus=8
PCI: Using configuration type 1
PCI: Probing PCI hardware
PCI: Ignoring BAR0-3 of IDE controller 00:0f.1
PCI: Discovered peer bus 02
PCI: Discovered peer bus 06
PCI: Discovered peer bus 08

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isapnp: Scanning for PnP cards...
isapnp: No Plug & Play device found
Linux NET4.0 for Linux 2.4
Based upon Swansea University Computer Society NET3.039
Initializing RT netlink socket
apm: BIOS not found.
Total HugeTLB memory allocated, 0
Starting kswapd
allocated 32 pages and 32 bhs reserved for the highmem bounces
VFS: Disk quotas vquot_6.5.1
aio_setup: num_physpages = 163830
aio_setup: sizeof(struct page) = 56
Hugetlbfs mounted.
pty: 2048 Unix98 ptys configured
Serial driver version 5.05c (2001-07-08) with MANY_PORTS MULTIPORT SHARE_IRQ SERIAL_PCI
ISAPNP
enabled
ttyS0 at 0x03f8 (irq = 4) is a 16550A
Real Time Clock Driver v1.10e
NET4: Frame Diverter 0.46
RAMDISK driver initialized: 256 RAM disks of 8192K size 1024 blocksize
Uniform Multi-Platform E-IDE driver Revision: 7.00beta4-2.4
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
SvrWks CSB5: IDE controller at PCI slot 00:0f.1
SvrWks CSB5: chipset revision 147
SvrWks CSB5: not 100% native mode: will probe irqs later
SvrWks CSB5: simplex device: DMA forced
ide0: BM-DMA at 0x0700-0x0707, BIOS settings: hda:DMA, hdb:DMA
SvrWks CSB5: simplex device: DMA forced
ide1: BM-DMA at 0x0708-0x070f, BIOS settings: hdc:DMA, hdd:DMA
hda: LG CD-ROM CRN-8245B, ATAPI CD/DVD-ROM drive
ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
ide-floppy driver 0.99.newide
ide-floppy driver 0.99.newide
md: md driver 0.90.0 MAX_MD_DEVS=256, MD_SB_DISKS=27
md: Autodetecting RAID arrays.
md: autorun ...
md: ... autorun DONE.
Initializing Cryptographic API
NET4: Linux TCP/IP 1.0 for NET4.0
IP: routing cache hash table of 32768 buckets, 256Kbytes
TCP: Hash tables configured (established 524288 bind 65536)
Linux IP multicast router 0.06 plus PIM-SM
Initializing IPsec netlink socket
NET4: Unix domain sockets 1.0/SMP for Linux NET4.0.
RAMDISK: Compressed image found at block 0
Freeing initrd memory: 251k freed
VFS: Mounted root (ext2 filesystem).
SCSI subsystem driver Revision: 1.00
ips 08:02.0:Warning !!! ServeRAID Version Mismatch
ips 08:02.0:Bios = 7.00.17, Firmware = 7.00.17, Device Driver = 7.10.18
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ips 08:02.0:These levels should match to avoid possible compatibility problems.
scsi0 : IBM PCI ServeRAID 7.10.18 Build 731 <ServeRAID 6i>
blk: queue c598ec14, I/O limit 4095Mb (mask 0xffffffff)
Vendor: IBM Model: SERVERAID Rev: 1.00
Type: Direct-Access ANSI SCSI revision: 02
blk: queue f7fb7014, I/O limit 4095Mb (mask 0xffffffff)
Vendor: IBM Model: SERVERAID Rev: 1.00
Type: Processor ANSI SCSI revision: 02
blk: queue f7fb7214, I/O limit 4095Mb (mask 0xffffffff)
Vendor: IBM Model: 32P0032a S320 1 Rev: 1
Type: Processor ANSI SCSI revision: 02
blk: queue f7fb7414, I/O limit 4095Mb (mask 0xffffffff)
Attached scsi disk sda at scsi0, channel 0, id 0, lun 0
SCSI device sda: 71096320 512-byte hdwr sectors (36401 MB)
Partition check:
sda: sda1 sda2 sda3 sda4 < sda5 sda6 sda7 sda8 sda9 >
Journalled Block Device driver loaded
EXT3-fs: INFO: recovery required on readonly filesystem.
EXT3-fs: write access will be enabled during recovery.
kjournald starting. Commit interval 5 seconds
EXT3-fs: recovery complete.
EXT3-fs: mounted filesystem with ordered data mode.
Freeing unused kernel memory: 164k freed
usb.c: registered new driver usbdevfs
usb.c: registered new driver hub
usb-ohci.c: USB OHCI at membase 0xf8889000, IRQ 11
usb-ohci.c: usb-00:0f.2, ServerWorks OSB4/CSB5 OHCI USB Controller
usb.c: new USB bus registered, assigned bus number 1
hub.c: USB hub found
hub.c: 4 ports detected
usb.c: registered new driver hiddev
usb.c: registered new driver hid
hid-core.c: v1.8.1 Andreas Gal, Vojtech Pavlik <vojtech@xxxxxxx>
hid-core.c: USB HID support drivers
mice: PS/2 mouse device common for all mice
EXT3 FS 2.4-0.9.19, 19 August 2002 on sd(8,3), internal journal
Adding Swap: 5240644k swap-space (priority -1)
kjournald starting. Commit interval 5 seconds
EXT3 FS 2.4-0.9.19, 19 August 2002 on sd(8,9), internal journal
EXT3-fs: mounted filesystem with ordered data mode.
kjournald starting. Commit interval 5 seconds
EXT3 FS 2.4-0.9.19, 19 August 2002 on sd(8,1), internal journal
EXT3-fs: mounted filesystem with ordered data mode.
kjournald starting. Commit interval 5 seconds
EXT3 FS 2.4-0.9.19, 19 August 2002 on sd(8,6), internal journal
EXT3-fs: mounted filesystem with ordered data mode.
kjournald starting. Commit interval 5 seconds
EXT3 FS 2.4-0.9.19, 19 August 2002 on sd(8,8), internal journal
EXT3-fs: mounted filesystem with ordered data mode.
kjournald starting. Commit interval 5 seconds
EXT3 FS 2.4-0.9.19, 19 August 2002 on sd(8,7), internal journal
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EXT3-fs: mounted filesystem with ordered data mode.
kjournald starting. Commit interval 5 seconds
EXT3 FS 2.4-0.9.19, 19 August 2002 on sd(8,5), internal journal
EXT3-fs: mounted filesystem with ordered data mode.

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