

Hardware Settings - IRQ Interrupts

IRQ - Interrupt Requests

- 00: System Timer
- 01: Keyboard
- 02: Cascade for IRQs 8 to 15
- 03: 2nd RS-232 Serial Port (COM2)
- 04: 1st RS-232 Serial Port (COM1)
- 05: Soundcard or 2nd Parallel Port (LPT2)
- 06: Floppy Disk Controller
- 07: 1st Parallel Port (LPT1)
- 08: Real Time Clock
- 09: Open Interrupt
- 10: Open Interrupt
- 11: Open Interrupt
- 12: PS2 Mouse
- 13: Maths Co-processor
- 14: Primary ATA Controller
- 15: Secondary ATA Controller

Found in */proc/interrupts*

ATA controllers are marked as */dev/hda,b,c* or *d*

Hardware Settings - I/O and DMA Addresses

I/O Address: */proc/ioports*

DMA Address: */proc/dma*

Software - Libraries

Library file location: */etc/ld.so.conf*

Library path setting: `LD_LIBRARY_PATH`

Command Syntax: `export LD_LIBRARY_PATH=[path]`

Library Management: `ldd -v /bin/bash`

Library cache: */etc/ld.so.cache*

Library cache config: `ldconfig`

Software - Libraries (cont)

`ldconfig -v` (verbose)

`ldconfig -N` (update links)

`ldconfig -n` (update links in specified directories)

`ldconfig -X` (update cache)

`ldconfig -f` (conffile use new config file)

`ldconfig -C` (cachefile change cachefile
`ldconfig` creates))

`ldconfig -p` (display cache)

Hardware Settings - Boot Disks and Geometry

Boot Device: Floppy Disk

Boot Device: Hard Disk

Boot Device: CD-ROM

Boot Device: USB

CHS Geometry - Cylinder, Sectors, Heads

Logical Block Addressing (LBA)

Hotplug (USB, Camera)

Coldplug (Memory, CPU)

D-BUS: runs as daemon (hotplug) `dmesg`

hald: Hardware abstraction layer daemon

sysfs: Virtual file system mounted at */sys*
contains information on devices

udev: Virtual filesystem mounted at */dev*
Creates device files as drivers are loaded
and unloaded. Configured through */etc/udev*

Hardware Settings - Disk Layout

Master Boot Record (MBR) 4 x primary
partitions of which one can be logical

0x0c (FAT)

0x05 (older type of extended partition)

0x07 (NTFS)

0x0f (newer type of extended partition)

0x82 (linux swap)

0x83 (linux filesystem)

0x8e (logical partition)

GUID Partition Table (GPT) Intel Bios
Replacement

GPT - Reserved for disks bigger than 2TB

GPT data structure: Protective MBR/He-
ader/Partition Table

Logical Volume Management (LVM)(-
Complex alternative to Partitions

LVM Utilities: `pvccreate/vgcreate/lvcreate/-
lvscan`

LVM access: */dev/mapper/myvol-home*



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Page 1 of 1.

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