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_P-ATH=[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 direct-ories)

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)

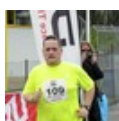GUID Partition Table (GPT) Intel Bios Replacement

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: pvcreate/vgcreate/lvcreate/-lvscan

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