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ubuntu@ubuntu:~$ dmesg
[ 0.000000] Linux version 2.6.24-16-rtai (root@hardy) (gcc version 4.2.3
(Ubuntu 4.2.3-2ubuntu7)) #1 Tue Sep 30 22:54:33 EEST 2008 (Ubuntu 2.6.24-12.22-
generic)
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: 0000000000000000 - 000000000009f800 (usable)
[ 0.000000] BIOS-e820: 000000000009f800 - 00000000000a0000 (reserved)
[ 0.000000] BIOS-e820: 00000000000e7800 - 0000000000100000 (reserved)
[ 0.000000] BIOS-e820: 0000000000100000 - 0000000001fef0000 (usable)
[ 0.000000] BIOS-e820: 0000000001fef0000 - 0000000001feffc00 (ACPI data)
[ 0.000000] BIOS-e820: 0000000001feffc00 - 0000000001fff00000 (ACPI NVS)
[ 0.000000] BIOS-e820: 0000000001fff00000 - 00000000020000000 (reserved)
[ 0.000000] BIOS-e820: 000000000fff00000 - 000000000100000000 (reserved)
[ 0.000000] OMB HIGHMEM available.
[ 0.000000] 510MB LOWMEM available.
[ 0.000000] Entering add_active_range(0, 0, 130800) 0 entries of 256 used
[ 0.000000] Zone PFN ranges:
[ 0.000000]   DMA             0 ->      4096
[ 0.000000]   Normal          4096 ->   130800
[ 0.000000]   HighMem       130800 ->   130800
[ 0.000000] Movable zone start PFN for each node
[ 0.000000] early_node_map[1] active PFN ranges
[ 0.000000]   0:             0 ->   130800
[ 0.000000] On node 0 totalpages: 130800
[ 0.000000]   DMA zone: 32 pages used for memmap
[ 0.000000]   DMA zone: 0 pages reserved
[ 0.000000]   DMA zone: 4064 pages, LIFO batch:0
[ 0.000000]   Normal zone: 989 pages used for memmap
[ 0.000000]   Normal zone: 125715 pages, LIFO batch:31
[ 0.000000]   HighMem zone: 0 pages used for memmap
[ 0.000000]   Movable zone: 0 pages used for memmap
[ 0.000000] DMI not present or invalid.
[ 0.000000] Allocating PCI resources starting at 30000000 (gap:
20000000:dff00000)
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total
pages: 129779
[ 0.000000] Kernel command line: BOOT_IMAGE=/casper/vmlinuz
file=/cdrom/preseed/ubuntu.seed boot=casper initrd=/casper/initrd.gz quiet
splash --
[ 0.000000] Enabling fast FPU save and restore... done.
[ 0.000000] Enabling unmasked SIMD FPU exception support... done.
[ 0.000000] Initializing CPU#0
[ 0.000000] PID hash table entries: 2048 (order: 11, 8192 bytes)
[ 0.000000] Detected 803.430 MHz processor.
[ 76.237522] I-pipe 2.0-04: pipeline enabled.
[ 76.239449] Console: colour VGA+ 80x25
[ 76.239462] console [tty0] enabled
[ 76.240627] Dentry cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 76.242091] Inode-cache hash table entries: 32768 (order: 5, 131072 bytes)
[ 76.298566] Memory: 508400k/523200k available (1440k kernel code, 14060k
reserved, 573k data, 228k init, 0k highmem)
[ 76.298591] virtual kernel memory layout:
[ 76.298594]   fixmap      : 0xffffed000 - 0xffffffff000    ( 72 kB)
[ 76.298598]   pkmap       : 0xff8000000 - 0xffc000000    (4096 kB)
[ 76.298602]   vmalloc    : 0xe08000000 - 0xff7fe0000    ( 495 MB)
[ 76.298605]   lowmem     : 0xc00000000 - 0xdfef00000    ( 510 MB)
[ 76.298609]   .init     : 0xc02fa0000 - 0xc03330000    ( 228 kB)

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[ 76.298612]      .data : 0xc026836d - 0xc02f77ec   ( 573 kB)
[ 76.298616]      .text : 0xc0100000 - 0xc026836d   (1440 kB)
[ 76.298625] Checking if this processor honours the WP bit even in supervisor
mode... Ok.
[ 76.298714] SLUB: Genslabs=11, HWalign=32, Order=0-1, MinObjects=4, CPUs=1,
Nodes=1
[ 76.378712] Calibrating delay using timer specific routine.. 1607.72 BogoMIPS
(lpj=3215450)
[ 76.378775] Security Framework initialized
[ 76.378791] SELinux: Disabled at boot.
[ 76.378824] AppArmor: AppArmor initialized
[ 76.378836] Failure registering capabilities with primary security module.
[ 76.378855] Mount-cache hash table entries: 512
[ 76.379103] CPU: After generic identify, caps: 0383f9ff 00000000 00000000
00000000 00000000 00000000 00000000 00000000 00000000
[ 76.379128] CPU: L1 I cache: 16K, L1 D cache: 16K
[ 76.379134] CPU: L2 cache: 256K
[ 76.379141] CPU: After all inits, caps: 0383f9ff 00000000 00000000 00000040
00000000 00000000 00000000 00000000
[ 76.379161] Compat vDSO mapped to fffffe000.
[ 76.379194] CPU: Intel Pentium III (Coppermine) stepping 03
[ 76.379209] Checking 'hlt' instruction... OK.
[ 76.395052] Freeing SMP alternatives: 0k freed
[ 76.395502] net_namespace: 64 bytes
[ 76.396893] NET: Registered protocol family 16
[ 76.397431] EISA bus registered
[ 76.398486] PCI: PCI BIOS revision 2.10 entry at 0xfd99e, last bus=1
[ 76.398493] PCI: Using configuration type 1
[ 76.398498] Setting up standard PCI resources
[ 76.405701] Linux Plug and Play Support v0.97 (c) Adam Belay
[ 76.406337] PCI: Probing PCI hardware
[ 76.406350] PCI: Probing PCI hardware (bus 00)
[ 76.406638] PCI quirk: region 1000-107f claimed by ICH4 ACPI/GPIO/TCO
[ 76.406647] PCI quirk: region 1180-11bf claimed by ICH4 GPIO
[ 76.407060] PCI: Transparent bridge - 0000:00:1e.0
[ 76.408196] PCI: Using IRQ router PIIX/ICH [8086/2410] at 0000:00:1f.0
[ 76.408223] PCI: setting IRQ 9 as level-triggered
[ 76.408230] PCI: Found IRQ 9 for device 0000:00:1f.5
[ 76.408245] PCI: Sharing IRQ 9 with 0000:00:1f.3
[ 76.408257] PCI: setting IRQ 11 as level-triggered
[ 76.408264] PCI: Found IRQ 11 for device 0000:01:0b.0
[ 76.408277] PCI: Sharing IRQ 11 with 0000:00:1f.2
[ 76.418907] AppArmor: AppArmor Filesystem Enabled
[ 76.419882] PCI: Bridge: 0000:00:1e.0
[ 76.419892]   IO window: 2000-2fff
[ 76.419901]   MEM window: f4100000-f41fffff
[ 76.419909]   PREFETCH window: disabled.
[ 76.419930] PCI: Setting latency timer of device 0000:00:1e.0 to 64
[ 76.419959] NET: Registered protocol family 2
[ 76.422704] Time: tsc clocksource has been installed.
[ 76.454858] IP route cache hash table entries: 4096 (order: 2, 16384 bytes)
[ 76.455454] TCP established hash table entries: 16384 (order: 5, 131072
bytes)
[ 76.455872] TCP bind hash table entries: 16384 (order: 4, 65536 bytes)
[ 76.456099] TCP: Hash tables configured (established 16384 bind 16384)
[ 76.456106] TCP reno registered
[ 76.467185] checking if image is initramfs... it is
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[ 78.285655] Freeing initrd memory: 6858k freed
[ 78.286990] audit: initializing netlink socket (disabled)
[ 78.287030] audit(1333009127.992:1): initialized
[ 78.292429] VFS: Disk quotas dquot_6.5.1
[ 78.292526] Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 78.292938] io scheduler noop registered
[ 78.292945] io scheduler anticipatory registered
[ 78.292951] io scheduler deadline registered
[ 78.292991] io scheduler cfq registered (default)
[ 78.293024] Boot video device is 0000:00:01.0
[ 78.293639] isapnp: Scanning for PnP cards...
[ 78.647414] isapnp: No Plug & Play device found
[ 78.758261] Real Time Clock Driver v1.12ac
[ 78.758275] Serial: 8250/16550 driver $Revision: 1.90 $ 4 ports, IRQ sharing
enabled
[ 78.758461] serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[ 78.758841] serial8250: ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A
[ 78.761441] RAMDISK driver initialized: 16 RAM disks of 65536K size 1024
blocksize
[ 78.761669] input: Macintosh mouse button emulation as
/devices/virtual/input/input0
[ 78.762059] PNP: No PS/2 controller found. Probing ports directly.
[ 78.765169] serio: i8042 KBD port at 0x60,0x64 irq 1
[ 78.765182] serio: i8042 AUX port at 0x60,0x64 irq 12
[ 78.770044] mice: PS/2 mouse device common for all mice
[ 78.770339] EISA: Probing bus 0 at eisa.0
[ 78.770357] Cannot allocate resource for EISA slot 1
[ 78.770364] Cannot allocate resource for EISA slot 2
[ 78.770399] EISA: Detected 0 cards.
[ 78.770668] NET: Registered protocol family 1
[ 78.770699] Using IPI Shortcut mode
[ 78.770933] BIOS EDD facility v0.16 2004-Jun-25, 0 devices found
[ 78.770939] EDD information not available.
[ 78.771586] Freeing unused kernel memory: 228k freed
[ 80.378038] fuse init (API version 7.9)
[ 81.229632] usbcore: registered new interface driver usbfs
[ 81.229695] usbcore: registered new interface driver hub
[ 81.236117] 8139too Fast Ethernet driver 0.9.28
[ 81.236217] PCI: Enabling device 0000:01:0b.0 (0100 -> 0103)
[ 81.236235] PCI: Found IRQ 11 for device 0000:01:0b.0
[ 81.236253] PCI: Sharing IRQ 11 with 0000:00:1f.2
[ 81.238279] SCSI subsystem initialized
[ 81.273725] eth0: RealTek RTL8139 at 0x2000, 00:30:bd:03:ae:82, IRQ 11
[ 81.273738] eth0: Identified 8139 chip type 'RTL-8139C'
[ 81.277794] usbcore: registered new device driver usb
[ 81.348547] USB Universal Host Controller Interface driver v3.0
[ 81.348708] PCI: Found IRQ 11 for device 0000:00:1f.2
[ 81.348733] PCI: Sharing IRQ 11 with 0000:01:0b.0
[ 81.348753] PCI: Setting latency timer of device 0000:00:1f.2 to 64
[ 81.348762] uhci_hcd 0000:00:1f.2: UHCI Host Controller
[ 81.349298] uhci_hcd 0000:00:1f.2: new USB bus registered, assigned bus
number 1
[ 81.349347] uhci_hcd 0000:00:1f.2: irq 11, io base 0x00001080
[ 81.349683] usb usb1: configuration #1 chosen from 1 choice
[ 81.349743] hub 1-0:1.0: USB hub found
[ 81.349759] hub 1-0:1.0: 2 ports detected
[ 81.353465] libata version 3.00 loaded.
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[ 81.453325] ata_piix 0000:00:1f.1: version 2.12
[ 81.453476] PCI: Setting latency timer of device 0000:00:1f.1 to 64
[ 81.456367] scsi0 : ata_piix
[ 81.461213] scsi1 : ata_piix
[ 81.461355] ata1: PATA max UDMA/66 cmd 0x1f0 ctl 0x3f6 bmdma 0x10a0 irq 14
[ 81.461364] ata2: PATA max UDMA/66 cmd 0x170 ctl 0x376 bmdma 0x10a8 irq 15
[ 81.625277] ata1.00: ATA-6: Maxtor 94610U6, BAC51KJ0, max UDMA/66
[ 81.625291] ata1.00: 90045648 sectors, multi 16: LBA
[ 81.641221] ata1.00: configured for UDMA/66
[ 81.692777] usb 1-1: new low speed USB device using uhci_hcd and address 2
[ 81.865398] usb 1-1: configuration #1 chosen from 1 choice
[ 82.104549] usb 1-2: new low speed USB device using uhci_hcd and address 3
[ 82.283143] usb 1-2: configuration #1 chosen from 1 choice
[ 82.308988] ata2.00: ATAPI: LG CD-RW CED-8083B, 1.09, max MWDMA2
[ 82.480719] ata2.00: configured for MWDMA2
[ 82.481055] scsi 0:0:0:0: Direct-Access      ATA          Maxtor 94610U6   BAC5
PQ: 0 ANSI: 5
[ 82.481685] scsi 1:0:0:0: CD-ROM          LG           CD-RW CED-8083B  1.09
PQ: 0 ANSI: 5
[ 82.903387] usbcore: registered new interface driver hiddev
[ 82.930162] Driver 'sd' needs updating - please use bus_type methods
[ 82.940879] input: USB Compliant Keyboard as
/devices/pci0000:00/0000:00:1f.2/usb1/1-1/1-1:1.0/input/input1
[ 82.941024] sd 0:0:0:0: [sda] 90045648 512-byte hardware sectors (46103 MB)
[ 82.941065] sd 0:0:0:0: [sda] Write Protect is off
[ 82.941073] sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
[ 82.941126] sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled,
doesn't support DPO or FUA
[ 82.941269] sd 0:0:0:0: [sda] 90045648 512-byte hardware sectors (46103 MB)
[ 82.941299] sd 0:0:0:0: [sda] Write Protect is off
[ 82.941307] sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
[ 82.941356] sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled,
doesn't support DPO or FUA
[ 82.941367] sda:<4>Driver 'sr' needs updating - please use bus_type methods
[ 82.952346] input,hidraw0: USB HID v1.10 Keyboard [USB Compliant Keyboard] on
usb-0000:00:1f.2-1
[ 82.967497] input: USB Compliant Keyboard as
/devices/pci0000:00/0000:00:1f.2/usb1/1-1/1-1:1.1/input/input2
[ 82.976276] input,hidraw1: USB HID v1.10 Device [USB Compliant Keyboard] on
usb-0000:00:1f.2-1
[ 82.980335] sda1
[ 82.980536] sd 0:0:0:0: [sda] Attached SCSI disk
[ 82.996977] input: Logitech USB Trackball as
/devices/pci0000:00/0000:00:1f.2/usb1/1-2/1-2:1.0/input/input3
[ 82.998487] sd 0:0:0:0: Attached scsi generic sg0 type 0
[ 82.998540] sr 1:0:0:0: Attached scsi generic sgl type 5
[ 82.998825] sr0: scsi3-mmc drive: 31x/32x writer cd/rw xa/form2 cdda tray
[ 82.998835] Uniform CD-ROM driver Revision: 3.20
[ 82.998963] sr 1:0:0:0: Attached scsi CD-ROM sr0
[ 83.012372] input,hidraw2: USB HID v1.10 Mouse [Logitech USB Trackball] on
usb-0000:00:1f.2-2
[ 83.012419] usbcore: registered new interface driver usbhid
[ 83.012430] /home/juve/hardy-packages/linux-git/ubuntu-
hardy/debian/build/custom-source-rtai/drivers/hid/usbhid/hid-core.c: v2.6:USB
HID core driver
[ 90.276864] ISO 9660 Extensions: Microsoft Joliet Level 3
[ 90.326921] ISO 9660 Extensions: RRIP_1991A

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[ 90.378377] Registering unionfs 1.4
[ 90.378392] unionfs: debugging is not enabled
[ 90.407692] loop: module loaded
[ 90.527042] squashfs: version 3.3 (2007/10/31) Phillip Lougher
[ 163.443411] iTCO_vendor_support: vendor-support=0
[ 163.670073] Linux agpgart interface v0.102
[ 163.672915] iTCO_wdt: Intel TCO WatchDog Timer Driver v1.02 (26-Jul-2007)
[ 163.673066] iTCO_wdt: Found a ICH TCO device (Version=1, TCOBASE=0x1060)
[ 163.673129] iTCO_wdt: initialized. heartbeat=30 sec (nowayout=0)
[ 163.974760] i810_smbus 0000:00:01.0: i810/i815 i2c device found.
[ 164.137098] input: PC Speaker as /devices/platform/pcspkr/input/input4
[ 164.597071] Intel 82802 RNG detected
[ 164.854106] agpgart: Detected an Intel i810 Chipset.
[ 164.916334] agpgart: AGP aperture is 64M @ 0xf8000000
[ 167.759860] PCI: Found IRQ 9 for device 0000:00:1f.5
[ 167.759887] PCI: Sharing IRQ 9 with 0000:00:1f.3
[ 167.759922] PCI: Setting latency timer of device 0000:00:1f.5 to 64
[ 168.350970] intel8x0_measure_ac97_clock: measured 55230 usecs
[ 168.350980] intel8x0: clocking to 48000
[ 172.885623] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 180.531492] lp: driver loaded but no devices found
[ 180.645899] ppdev: user-space parallel port driver
[ 188.547792] eth0: link down
[ 189.250522] Bluetooth: Core ver 2.11
[ 189.255662] NET: Registered protocol family 31
[ 189.255675] Bluetooth: HCI device and connection manager initialized
[ 189.255684] Bluetooth: HCI socket layer initialized
[ 189.445143] Bluetooth: L2CAP ver 2.9
[ 189.445160] Bluetooth: L2CAP socket layer initialized
[ 189.468968] Bluetooth: RFCOMM socket layer initialized
[ 189.470171] Bluetooth: RFCOMM TTY layer initialized
[ 189.470181] Bluetooth: RFCOMM ver 1.8
[ 198.686154] [drm] Initialized drm 1.1.0 20060810
[ 198.692193] PCI: Found IRQ 9 for device 0000:00:01.0
[ 198.696281] PCI: Setting latency timer of device 0000:00:01.0 to 64
[ 198.698161] [drm] Initialized i810 1.4.0 20030605 on minor 0
[ 198.708794] mtrr: base(0xf8000000) is not aligned on a size(0x1e6000)
boundary
[ 198.721338] [drm] Using v1.4 init.
[ 201.893876] [drm:drm_release] *ERROR* reclaim_buffers_locked() deadlock.
Please rework this
[ 201.893887]     driver to use reclaim_buffers_idlelocked() instead.
[ 201.893891]     I will go on reclaiming the buffers anyway.
[ 216.554271] NET: Registered protocol family 10
[ 216.556021] lo: Disabled Privacy Extensions
[ 216.558004] ADDRCONF(NETDEV_UP): eth0: link is not ready
[ 338.348490] I-pipe: Domain RTAI registered.
[ 338.348521] RTAI[hal]: <3.6.1> mounted over IPIPE-NOTHREADS 2.0-04.
[ 338.348527] RTAI[hal]: compiled with gcc version 4.2.4 (Ubuntu 4.2.4-
lubuntu3).
[ 338.348542] RTAI[hal]: mounted (IPIPE-NOTHREADS, IMMEDIATE (INTERNAL IRQs
DISPATCHED), ISOL_CPUS_MASK: 0).
[ 338.348549] PIPELINE layers:
[ 338.348555] e0e31000 9ac15d93 RTAI 200
[ 338.348560] c0383180 0 Linux 100
[ 338.718197] RTAI[malloc]: global heap size = 2097152 bytes, <BSD>.
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[ 338.719355] RTAI[sched]: loaded (IMMEDIATE, UP, USER/KERNEL SPACE: <with RTAI
OWN KTASKs>, kstacks pool size = 524288 bytes.
[ 338.719374] RTAI[sched]: hard timer type/freq = 8254-PIT/1193180(Hz); default
timing: periodic; linear timed lists.
[ 338.719384] RTAI[sched]: Linux timer freq = 250 (Hz), CPU freq = 803430000
hz.
[ 338.719391] RTAI[sched]: timer setup = 2010 ns, resched latency = 2689 ns.
[ 339.177273] RTAI[math]: loaded.
[ 339.468945] rtapi: no version for "nano2count" found: kernel tainted.
[ 340.258450] config string '0x0378'
[ 341.854340] 1562: ERROR: Unexpected realtime delay: check dmesg for details.
[ 341.854357]
[ 341.854359] In recent history there were
[ 341.854363] 794525, 794501, 794544, 794650, and 794433
[ 341.854366] elapsed clocks between calls to the motion controller.
[ 341.854383] This time, there were 1112433 which is so anomalously
[ 341.854387] large that it probably signifies a problem with your
[ 341.854391] realtime configuration. For the rest of this run of
[ 341.854394] EMC, this message will be suppressed.
[ 341.854397]
ubuntu@ubuntu:~$
ubuntu@ubuntu:~$
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