

Print file information:

RUN_IN_PLACE=no
LINUXCNC_DIR=
LINUXCNC_BIN_DIR=/usr/bin
LINUXCNC_TCL_DIR=/usr/lib/tcltk/linuxcnc
LINUXCNC_SCRIPT_DIR=
LINUXCNC_RTLIB_DIR=/usr/realtime-3.4-9-rtai-686-pae/modules/linuxcnc
LINUXCNC_CONFIG_DIR=
LINUXCNC_LANG_DIR=/usr/share/linuxcnc/tcl/msgs
INIVAR=inivar
HALCMD=halcmd
LINUXCNC_EMCSH=/usr/bin/wish8.5
LINUXCNC - 2.7.4
Machine configuration directory is '/home/saj2016/linuxcnc/configs/EMCO'
Machine configuration file is 'EMCO.ini'
INIFILE=/home/saj2016/linuxcnc/configs/EMCO/EMCO.ini
PARAMETER_FILE=linuxcnc.var
TASK=milltask
HALUI=halui
DISPLAY=axis
Starting LinuxCNC...
Starting LinuxCNC server program: linuxcncsvr
Loading Real Time OS, RTAPI, and HAL_LIB modules
Starting LinuxCNC IO program: io
Starting HAL User Interface program: halui
Found file(REL): ./EMCO.hal
Shutting down and cleaning up LinuxCNC...
Running HAL shutdown script
Killing task linuxcncsvr, PID=3437
Removing HAL_LIB, RTAPI, and Real Time OS modules
Removing NML shared memory segments

Debug file information:

./EMCO.hal:22: Pin 'hm2_5i25.0.7i76.0.0.output-15' does not exist
3437
PID TTY STAT TIME COMMAND
Stopping realtime threads
Unloading hal components

Kernel message information:

[0.000000] Initializing cgroup subsys cpuset
[0.000000] Initializing cgroup subsys cpu
[0.000000] Linux version 3.4-9-rtai-686-pae (Debian 3.4.55-4linuxcnc) () (gcc version 4.6.3 (Debian 4.6.3-14)) #1 SMP PREEMPT Debian 3.4.55-4linuxcnc
[0.000000] BIOS-provided physical RAM map:
[0.000000] BIOS-e820: 0000000000000000 - 000000000009ac00 (usable)
[0.000000] BIOS-e820: 000000000009ac00 - 00000000000a0000 (reserved)
[0.000000] BIOS-e820: 00000000000e0000 - 0000000000100000 (reserved)
[0.000000] BIOS-e820: 0000000000100000 - 00000000cf1f7000 (usable)
[0.000000] BIOS-e820: 00000000cf1f7000 - 00000000cf23b000 (reserved)
[0.000000] BIOS-e820: 00000000cf23b000 - 00000000cf5b7000 (usable)
[0.000000] BIOS-e820: 00000000cf5b7000 - 00000000cf5e7000 (reserved)

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[ 0.000000] BIOS-e820: 00000000cf5e7000 - 00000000cf7e7000 (ACPI NVS)
[ 0.000000] BIOS-e820: 00000000cf7e7000 - 00000000cf7ff000 (ACPI data)
[ 0.000000] BIOS-e820: 00000000cf7ff000 - 00000000cf800000 (usable)
[ 0.000000] BIOS-e820: 00000000fed1c000 - 00000000fed20000 (reserved)
[ 0.000000] BIOS-e820: 00000000ffc00000 - 00000000ffc20000 (reserved)
[ 0.000000] BIOS-e820: 0000000100000000 - 000000022e000000 (usable)
[ 0.000000] Notice: NX (Execute Disable) protection cannot be enabled: non-PAE kernel!
[ 0.000000] SMBIOS 2.6 present.
[ 0.000000] DMI: Dell Inc. OptiPlex 790/0HY9JP, BIOS A17 03/14/2013
[ 0.000000] e820 update range: 0000000000000000 - 0000000000010000 (usable) ==> (reserved)
[ 0.000000] e820 remove range: 00000000000a0000 - 0000000000100000 (usable)
[ 0.000000] last_pfn = 0xcf800 max_arch_pfn = 0x100000
[ 0.000000] MTRR default type: uncachable
[ 0.000000] MTRR fixed ranges enabled:
[ 0.000000] 00000-97FFF write-back
[ 0.000000] 98000-9BFFF write-protect
[ 0.000000] 9C000-9FFFF write-back
[ 0.000000] A0000-BFFFF uncachable
[ 0.000000] C0000-FFFFFF write-protect
[ 0.000000] MTRR variable ranges enabled:
[ 0.000000] 0 base 000000000 mask F80000000 write-back
[ 0.000000] 1 base 080000000 mask FC0000000 write-back
[ 0.000000] 2 base 0C0000000 mask FF0000000 write-back
[ 0.000000] 3 base 100000000 mask F00000000 write-back
[ 0.000000] 4 base 200000000 mask FE0000000 write-back
[ 0.000000] 5 base 220000000 mask FF0000000 write-back
[ 0.000000] 6 base 22E000000 mask FFE000000 uncachable
[ 0.000000] 7 base 0FFC00000 mask FFFC00000 write-protect
[ 0.000000] 8 disabled
[ 0.000000] 9 disabled
[ 0.000000] x86 PAT enabled: cpu 0, old 0x7040600070406, new 0x7010600070106
[ 0.000000] found SMP MP-table at [c00f2210] f2210
[ 0.000000] initial memory mapped : 0 - 01800000
[ 0.000000] Base memory trampoline at [c0096000] 96000 size 16384
[ 0.000000] init_memory_mapping: 0000000000000000-00000000377fe000
[ 0.000000] 00000000000 - 0000400000 page 4k
[ 0.000000] 0000400000 - 0037400000 page 2M
[ 0.000000] 0037400000 - 00377fe000 page 4k
[ 0.000000] kernel direct mapping tables up to 0x377fdfff @ [mem 0x017f8000-0x017ffff]
[ 0.000000] RAMDISK: 36524000 - 3728a000
[ 0.000000] ACPI: RSDP 000fe300 00024 (v02 DELL )
[ 0.000000] ACPI: XSDT cf7fde18 00074 (v01 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI: FACP cf787d98 000F4 (v04 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI Warning: 32/64 FACS address mismatch in FADT - two FACS tables!
(20120320/tbfadt-378)
[ 0.000000] ACPI Warning: 32/64X FACS address mismatch in FADT -
0xCF7E4E40/0x00000000CF7E4D40, using 32 (20120320/tbfadt-502)
[ 0.000000] ACPI: DSDT cf771018 07581 (v02 INT430 SYSFexxx 00001001 INTL 20090903)
[ 0.000000] ACPI: FACS cf7e4e40 00040
[ 0.000000] ACPI: APIC cf7fcf18 000CC (v02 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI: TCPA cf7e5d18 00032 (v02 00000000 00000000)
[ 0.000000] ACPI: SSDT cf788a98 002F9 (v01 DELLTPM TPM 00003000 INTL 20090903)
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[ 0.000000] ACPI: MCFG cf7e5c98 0003C (v01 DELL SNDYBRDG 06222004 MSFT
00000097)
[ 0.000000] ACPI: HPET cf7e5c18 00038 (v01 A M I PCHHPET 06222004 AML 00000003)
[ 0.000000] ACPI: BOOT cf7e5b98 00028 (v01 DELL CBX3 06222004 AMI 00010013)
[ 0.000000] ACPI: SSDT cf77e818 007C2 (v01 PmRef Cpu0Ist 00003000 INTL 20090903)
[ 0.000000] ACPI: SSDT cf77d018 00996 (v01 PmRef CpuPm 00003000 INTL 20090903)
[ 0.000000] ACPI: SLIC cf786c18 00176 (v03 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI: Local APIC address 0xfe00000
[ 0.000000] 2432MB HIGHMEM available.
[ 0.000000] 887MB LOWMEM available.
[ 0.000000] mapped low ram: 0 - 377fe000
[ 0.000000] low ram: 0 - 377fe000
[ 0.000000] Zone PFN ranges:
[ 0.000000] DMA 0x00000010 -> 0x00001000
[ 0.000000] Normal 0x00001000 -> 0x000377fe
[ 0.000000] HighMem 0x000377fe -> 0x000cf800
[ 0.000000] Movable zone start PFN for each node
[ 0.000000] Early memory PFN ranges
[ 0.000000] 0: 0x00000010 -> 0x0000009a
[ 0.000000] 0: 0x00000100 -> 0x000cf1f7
[ 0.000000] 0: 0x000cf23b -> 0x000cf5b7
[ 0.000000] 0: 0x000cf7ff -> 0x000cf800
[ 0.000000] On node 0 totalpages: 849150
[ 0.000000] free_area_init_node: node 0, pgdat c1498a00, node_mem_map f4b34200
[ 0.000000] DMA zone: 32 pages used for memmap
[ 0.000000] DMA zone: 0 pages reserved
[ 0.000000] DMA zone: 3946 pages, LIFO batch:0
[ 0.000000] Normal zone: 1744 pages used for memmap
[ 0.000000] Normal zone: 221486 pages, LIFO batch:31
[ 0.000000] HighMem zone: 4865 pages used for memmap
[ 0.000000] HighMem zone: 617077 pages, LIFO batch:31
[ 0.000000] Using APIC driver default
[ 0.000000] ACPI: PM-Timer IO Port: 0x408
[ 0.000000] ACPI: Local APIC address 0xfe00000
[ 0.000000] ACPI: LAPIC (acpi_id[0x01] lapic_id[0x00] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x02] lapic_id[0x02] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x03] lapic_id[0x04] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x04] lapic_id[0x06] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x05] lapic_id[0x04] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x06] lapic_id[0x05] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x07] lapic_id[0x06] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x08] lapic_id[0x07] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x09] lapic_id[0x08] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0a] lapic_id[0x09] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0b] lapic_id[0x0a] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0c] lapic_id[0x0b] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0d] lapic_id[0x0c] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0e] lapic_id[0x0d] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0f] lapic_id[0x0e] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x10] lapic_id[0x0f] disabled)
[ 0.000000] ACPI: IOAPIC (id[0x02] address[0xfec00000] gsi_base[0])
[ 0.000000] IOAPIC[0]: apic_id 2, version 32, address 0xfec00000, GSI 0-23
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[ 0.000000] ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl dfl)
[ 0.000000] ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 high level)
[ 0.000000] ACPI: IRQ0 used by override.
[ 0.000000] ACPI: IRQ2 used by override.
[ 0.000000] ACPI: IRQ9 used by override.
[ 0.000000] Using ACPI (MADT) for SMP configuration information
[ 0.000000] ACPI: HPET id: 0x8086a701 base: 0xfed00000
[ 0.000000] 16 Processors exceeds NR_CPUS limit of 8
[ 0.000000] SMP: Allowing 8 CPUs, 4 hotplug CPUs
[ 0.000000] nr_irqs_gsi: 40
[ 0.000000] PM: Registered nosave memory: 000000000009a000 - 000000000009b000
[ 0.000000] PM: Registered nosave memory: 000000000009b000 - 00000000000a0000
[ 0.000000] PM: Registered nosave memory: 00000000000a0000 - 00000000000e0000
[ 0.000000] PM: Registered nosave memory: 00000000000e0000 - 0000000000100000
[ 0.000000] Allocating PCI resources starting at cf800000 (gap: cf800000:2f51c000)
[ 0.000000] setup_percpu: NR_CPUS:8 nr_cpumask_bits:8 nr_cpu_ids:8 nr_node_ids:1
[ 0.000000] PERCPU: Embedded 17 pages/cpu @f7763000 s48384 r0 d21248 u69632
[ 0.000000] pcpu-alloc: s48384 r0 d21248 u69632 alloc=17*4096
[ 0.000000] pcpu-alloc: [0] 0 [0] 1 [0] 2 [0] 3 [0] 4 [0] 5 [0] 6 [0] 7
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 842509
[ 0.000000] Kernel command line: BOOT_IMAGE=/boot/vmlinuz-3.4-9-rtai-686-pae
root=UUID=0291646e-08d8-4e58-870e-ced0690f298d ro initrd=/install/gtk/initrd.gz lapic quiet
rootdelay=5
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Initializing CPU#0
[ 0.000000] xsave/xrstor: enabled xstate_bv 0x7, cntxt size 0x340
[ 0.000000] allocated 6799232 bytes of page_cgroup
[ 0.000000] please try 'cgroup_disable=memory' option if you don't want memory cgroups
[ 0.000000] Initializing HighMem for node 0 (000377fe:000cf800)
[ 0.000000] Memory: 3342400k/3399680k available (3495k kernel code, 54200k reserved, 1237k
data, 416k init, 2487768k highmem)
[ 0.000000] virtual kernel memory layout:
[ 0.000000]  fixmap : 0xffff17000 - 0xfffff000 ( 928 kB)
[ 0.000000]  pkmap : 0xff800000 - 0xffc00000 (4096 kB)
[ 0.000000]  vmalloc : 0xf7ffe000 - 0xff7fe000 ( 120 MB)
[ 0.000000]  lowmem : 0xc0000000 - 0xf77fe000 ( 887 MB)
[ 0.000000]   .init : 0xc14a0000 - 0xc1508000 ( 416 kB)
[ 0.000000]   .data : 0xc1369d4a - 0xc149f480 (1237 kB)
[ 0.000000]   .text : 0xc1000000 - 0xc1369d4a (3495 kB)
[ 0.000000] Checking if this processor honours the WP bit even in supervisor mode...Ok.
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] RCU dyntick-idle grace-period acceleration is enabled.
[ 0.000000] NR_IRQS:2304 nr_irqs:744 16
[ 0.000000] CPU 0 irqstacks, hard=f4006000 soft=f4008000
[ 0.000000] Extended CMOS year: 2000
[ 0.000000] Interrupt pipeline (release #3)
[ 0.000000] Console: colour VGA+ 80x25
[ 0.000000] console [tty0] enabled
[ 0.000000] hpet clockevent registered
[ 0.000000] Fast TSC calibration using PIT
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[ 0.004000] Detected 3093.085 MHz processor.
[ 0.000001] Calibrating delay loop (skipped), value calculated using timer frequency.. 6186.17
BogoMIPS (lpj=12372340)
[ 0.000004] pid_max: default: 32768 minimum: 301
[ 0.000031] Security Framework initialized
[ 0.000035] AppArmor: AppArmor disabled by boot time parameter
[ 0.000046] Mount-cache hash table entries: 512
[ 0.000177] Initializing cgroup subsys cpuacct
[ 0.000179] Initializing cgroup subsys memory
[ 0.000184] Initializing cgroup subsys devices
[ 0.000186] Initializing cgroup subsys freezer
[ 0.000187] Initializing cgroup subsys net_cls
[ 0.000188] Initializing cgroup subsys blkio
[ 0.000192] Initializing cgroup subsys perf_event
[ 0.000212] CPU: Physical Processor ID: 0
[ 0.000213] CPU: Processor Core ID: 0
[ 0.000217] ENERGY_PERF_BIAS: Set to 'normal', was 'performance'
[ 0.000217] ENERGY_PERF_BIAS: View and update with x86_energy_perf_policy(8)
[ 0.000219] mce: CPU supports 9 MCE banks
[ 0.000229] CPU0: Thermal monitoring enabled (TM1)
[ 0.000301] ACPI: Core revision 20120320
[ 0.004466] Enabling APIC mode: Flat. Using 1 I/O APICs
[ 0.004859] ..TIMER: vector=0x30 apic1=0 pin1=2 apic2=-1 pin2=-1
[ 0.044537] CPU0: Intel(R) Core(TM) i5-2400 CPU @ 3.10GHz stepping 07
[ 0.148982] Performance Events: PEBS fmt1+, 16-deep LBR, SandyBridge events, Intel PMU
driver.
[ 0.148988] PEBS disabled due to CPU errata.
[ 0.148990] ... version:          3
[ 0.148991] ... bit width:          48
[ 0.148992] ... generic registers:   8
[ 0.148994] ... value mask:          0000ffffffffffff
[ 0.148995] ... max period:          000000007fffffff
[ 0.148996] ... fixed-purpose events: 3
[ 0.148997] ... event mask:          00000007000000ff
[ 0.161020] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.172984] CPU 1 irqstacks, hard=f4118000 soft=f411a000
[ 0.172986] Booting Node 0, Processors #1
[ 0.183281] Initializing CPU#1
[ 0.186133] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.192983] CPU 2 irqstacks, hard=f4148000 soft=f414a000
[ 0.192985] #2
[ 0.203214] Initializing CPU#2
[ 0.206128] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.212977] CPU 3 irqstacks, hard=f415c000 soft=f415e000
[ 0.212979] #3
[ 0.223209] Initializing CPU#3
[ 0.226122] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.226148] Brought up 4 CPUs
[ 0.226150] Total of 4 processors activated (24744.68 BogoMIPS).
[ 0.228501] devtmpfs: initialized
[ 0.228665] PM: Registering ACPI NVS region [mem 0xcf5e7000-0xcf7e6fff] (2097152 bytes)
[ 0.228786] dummy:
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[0.228829] NET: Registered protocol family 16
[0.228915] ACPI FADT declares the system doesn't support PCIe ASPM, so disable it
[0.228917] ACPI: bus type pci registered
[0.228971] PCI: MMCONFIG for domain 0000 [bus 00-3f] at [mem 0xf8000000-0xfbffffff]
(base 0xf8000000)
[0.228973] PCI: not using MMCONFIG
[0.229127] PCI: PCI BIOS revision 2.10 entry at 0xfd092, last bus=4
[0.229128] PCI: Using configuration type 1 for base access
[0.229134] dmi type 0xB1 record - unknown flag
[0.229218] mtrr: your CPUs had inconsistent fixed MTRR settings
[0.229219] mtrr: probably your BIOS does not setup all CPUs.
[0.229220] mtrr: corrected configuration.
[0.229575] bio: create slab <bio-0> at 0
[0.229643] ACPI: Added _OSI(Module Device)
[0.229645] ACPI: Added _OSI(Processor Device)
[0.229647] ACPI: Added _OSI(3.0 _SCP Extensions)
[0.229648] ACPI: Added _OSI(Processor Aggregator Device)
[0.230954] ACPI: EC: Look up EC in DSDT
[0.235568] [Firmware Bug]: ACPI: BIOS _OSI(Linux) query ignored
[0.238017] ACPI: SSDT cf5d8a98 00303 (v01 PmRef ApIst 00003000 INTL 20090903)
[0.238414] ACPI: Dynamic OEM Table Load:
[0.238417] ACPI: SSDT (null) 00303 (v01 PmRef ApIst 00003000 INTL 20090903)
[0.238994] ACPI: Interpreter enabled
[0.239001] ACPI: (supports S0 S3 S4 S5)
[0.239021] ACPI: Using IOAPIC for interrupt routing
[0.239039] PCI: MMCONFIG for domain 0000 [bus 00-3f] at [mem 0xf8000000-0xfbffffff]
(base 0xf8000000)
[0.239157] ACPI Error: Invalid/unsupported resource descriptor: Type 0x00 (20120320/utresrc-650)
[0.239429] PCI: MMCONFIG at [mem 0xf8000000-0xfbffffff] reserved in ACPI motherboard resources
[0.239430] PCI: Using MMCONFIG for extended config space
[0.243864] ACPI: No dock devices found.
[0.243869] PCI: Using host bridge windows from ACPI; if necessary, use "pci=nocrs" and report a bug
[0.244199] _SB_.PCI0:_OSC invalid UUID
[0.244201] _OSC request data:1 8 0
[0.244205] ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-3e])
[0.244769] pci_root PNP0A08:00: host bridge window [io 0x0000-0x0cf7]
[0.244771] pci_root PNP0A08:00: host bridge window [io 0x0d00-0xffff]
[0.244772] pci_root PNP0A08:00: host bridge window [mem 0x000a0000-0x000bffff]
[0.244775] pci_root PNP0A08:00: host bridge window [mem 0xd0000000-0xfeafffff]
[0.244799] PCI host bridge to bus 0000:00
[0.244801] pci_bus 0000:00: root bus resource [io 0x0000-0x0cf7]
[0.244803] pci_bus 0000:00: root bus resource [io 0x0d00-0xffff]
[0.244805] pci_bus 0000:00: root bus resource [mem 0x000a0000-0x000bffff]
[0.244806] pci_bus 0000:00: root bus resource [mem 0xd0000000-0xfeafffff]
[0.244815] pci 0000:00:00.0: [8086:0100] type 00 class 0x060000
[0.244844] pci 0000:00:01.0: [8086:0101] type 01 class 0x060400
[0.244867] pci 0000:00:01.0: PME# supported from D0 D3hot D3cold
[0.244910] pci 0000:00:16.0: [8086:1c3a] type 00 class 0x078000
[0.244934] pci 0000:00:16.0: reg 10: [mem 0xd0d70000-0xd0d7000f 64bit]

[0.244996] pci 0000:00:16.0: PME# supported from D0 D3hot D3cold
[0.245020] pci 0000:00:16.3: [8086:1c3d] type 00 class 0x070002
[0.245038] pci 0000:00:16.3: reg 10: [io 0x4080-0x4087]
[0.245048] pci 0000:00:16.3: reg 14: [mem 0xd0d50000-0xd0d50fff]
[0.245134] pci 0000:00:1a.0: [8086:1c2d] type 00 class 0x0c0320
[0.245155] pci 0000:00:1a.0: reg 10: [mem 0xd0d40000-0xd0d403ff]
[0.245228] pci 0000:00:1a.0: PME# supported from D0 D3hot D3cold
[0.245252] pci 0000:00:1c.0: [8086:1c10] type 01 class 0x060400
[0.245313] pci 0000:00:1c.0: PME# supported from D0 D3hot D3cold
[0.245339] pci 0000:00:1c.2: [8086:1c14] type 01 class 0x060400
[0.245400] pci 0000:00:1c.2: PME# supported from D0 D3hot D3cold
[0.245432] pci 0000:00:1d.0: [8086:1c26] type 00 class 0x0c0320
[0.245453] pci 0000:00:1d.0: reg 10: [mem 0xd0d30000-0xd0d303ff]
[0.245525] pci 0000:00:1d.0: PME# supported from D0 D3hot D3cold
[0.245546] pci 0000:00:1e.0: [8086:244e] type 01 class 0x060401
[0.245602] pci 0000:00:1f.0: [8086:1c4c] type 00 class 0x060100
[0.245714] pci 0000:00:1f.2: [8086:1c02] type 00 class 0x010601
[0.245732] pci 0000:00:1f.2: reg 10: [io 0x4070-0x4077]
[0.245739] pci 0000:00:1f.2: reg 14: [io 0x4060-0x4063]
[0.245747] pci 0000:00:1f.2: reg 18: [io 0x4050-0x4057]
[0.245755] pci 0000:00:1f.2: reg 1c: [io 0x4040-0x4043]
[0.245763] pci 0000:00:1f.2: reg 20: [io 0x4020-0x403f]
[0.245771] pci 0000:00:1f.2: reg 24: [mem 0xd0d20000-0xd0d207ff]
[0.245802] pci 0000:00:1f.2: PME# supported from D3hot
[0.245819] pci 0000:00:1f.3: [8086:1c22] type 00 class 0x0c0500
[0.245834] pci 0000:00:1f.3: reg 10: [mem 0xd0d10000-0xd0d100ff 64bit]
[0.245855] pci 0000:00:1f.3: reg 20: [io 0x4000-0x401f]
[0.245907] pci 0000:01:00.0: [1002:68f9] type 00 class 0x030000
[0.245919] pci 0000:01:00.0: reg 10: [mem 0xe0000000-0xffffffff 64bit pref]
[0.245929] pci 0000:01:00.0: reg 18: [mem 0xd0c20000-0xd0c3ffff 64bit]
[0.245936] pci 0000:01:00.0: reg 20: [io 0x3000-0x30ff]
[0.245948] pci 0000:01:00.0: reg 30: [mem 0xd0c00000-0xd0c1ffff pref]
[0.245965] pci 0000:01:00.0: supports D1 D2
[0.254106] pci 0000:00:01.0: PCI bridge to [bus 01-01]
[0.254109] pci 0000:00:01.0: bridge window [io 0x3000-0x3fff]
[0.254111] pci 0000:00:01.0: bridge window [mem 0xd0c00000-0xd0cfffff]
[0.254114] pci 0000:00:01.0: bridge window [mem 0xe0000000-0xffffffff 64bit pref]
[0.254158] pci 0000:00:1c.0: PCI bridge to [bus 02-02]
[0.254255] pci 0000:03:00.0: [1033:0194] type 00 class 0x0c0330
[0.254301] pci 0000:03:00.0: reg 10: [mem 0xd0100000-0xd0101fff 64bit]
[0.254488] pci 0000:03:00.0: PME# supported from D0 D3hot D3cold
[0.262117] pci 0000:00:1c.2: PCI bridge to [bus 03-03]
[0.262121] pci 0000:00:1c.2: bridge window [io 0x2000-0x2fff]
[0.262125] pci 0000:00:1c.2: bridge window [mem 0xd0100000-0xd0afffff]
[0.262130] pci 0000:00:1c.2: bridge window [mem 0xf0000000-0xf09fffff 64bit pref]
[0.262161] pci 0000:04:02.0: [2718:5125] type 00 class 0x110000
[0.262175] pci 0000:04:02.0: reg 10: [mem 0xd0b00000-0xd0b0ffff]
[0.262264] pci 0000:00:1e.0: PCI bridge to [bus 04-04] (subtractive decode)
[0.262270] pci 0000:00:1e.0: bridge window [mem 0xd0b00000-0xd0bfffff]
[0.262276] pci 0000:00:1e.0: bridge window [io 0x0000-0x0cf7] (subtractive decode)
[0.262278] pci 0000:00:1e.0: bridge window [io 0x0d00-0xffff] (subtractive decode)
[0.262279] pci 0000:00:1e.0: bridge window [mem 0x000a0000-0x000bffff] (subtractive

decode)

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[ 0.262282] pci 0000:00:1e.0: bridge window [mem 0xd0000000-0xfeafffff] (subtractive decode)
[ 0.262299] pci_bus 0000:00: on NUMA node 0
[ 0.262301] ACPI: PCI Interrupt Routing Table [_SB_.PCI0._PRT]
[ 0.262524] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.RP01._PRT]
[ 0.262564] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.RP03._PRT]
[ 0.262613] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PEG0._PRT]
[ 0.262658] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.POP1._PRT]
[ 0.262803] _SB_.PCI0:_OSC invalid UUID
[ 0.262804] _OSC request data:1 f 0
[ 0.262808] pci0000:00: Unable to request _OSC control (_OSC support mask: 0x0f)
[ 0.265865] ACPI: PCI Interrupt Link [LNKA] (IRQs 1 3 4 5 6 7 10 12 14 15) *11
[ 0.265910] ACPI: PCI Interrupt Link [LNKB] (IRQs 1 3 4 5 6 7 11 12 14 15) *10
[ 0.265954] ACPI: PCI Interrupt Link [LNKC] (IRQs 1 3 4 *5 6 7 10 12 14 15)
[ 0.265997] ACPI: PCI Interrupt Link [LNKD] (IRQs 1 3 4 5 6 7 11 12 14 15) *0, disabled.
[ 0.266041] ACPI: PCI Interrupt Link [LNKE] (IRQs 1 3 4 5 6 7 10 12 14 15) *0, disabled.
[ 0.266085] ACPI: PCI Interrupt Link [LNKF] (IRQs 1 3 4 5 6 7 11 12 14 15) *0, disabled.
[ 0.266132] ACPI: PCI Interrupt Link [LNKG] (IRQs 1 3 4 5 6 7 10 12 14 15) *0, disabled.
[ 0.266175] ACPI: PCI Interrupt Link [LNKH] (IRQs 1 3 4 5 6 7 11 12 14 15) *0, disabled.
[ 0.266238] vgaarb: device added:
PCI:0000:01:00.0,decodes=io+mem,owns=io+mem,locks=none
[ 0.266240] vgaarb: loaded
[ 0.266242] vgaarb: bridge control possible 0000:01:00.0
[ 0.266260] PCI: Using ACPI for IRQ routing
[ 0.266262] PCI: pci_cache_line_size set to 64 bytes
[ 0.266326] reserve RAM buffer: 000000000009ac00 - 000000000009ffff
[ 0.266327] reserve RAM buffer: 00000000cf1f7000 - 00000000cfffffff
[ 0.266329] reserve RAM buffer: 00000000cf5b7000 - 00000000cfffffff
[ 0.266331] reserve RAM buffer: 00000000cf800000 - 00000000cfffffff
[ 0.266425] hpet0: at MMIO 0xfed00000, IRQs 2, 8, 0, 0, 0, 0, 0, 0
[ 0.266431] hpet0: 8 comparators, 64-bit 14.318180 MHz counter
[ 0.268444] Switching to clocksource hpet
[ 0.268490] pnp: PnP ACPI init
[ 0.268498] ACPI: bus type pnp registered
[ 0.268798] pnp 00:00: [bus 00-3e]
[ 0.268800] pnp 00:00: [io 0x0000-0x0cf7 window]
[ 0.268801] pnp 00:00: [io 0x0cf8-0x0cff]
[ 0.268804] pnp 00:00: [io 0x0d00-0xffff window]
[ 0.268805] pnp 00:00: [mem 0x000a0000-0x000bffff window]
[ 0.268807] pnp 00:00: [mem 0x000c0000-0x000c3fff window]
[ 0.268809] pnp 00:00: [mem 0x000c4000-0x000c7fff window]
[ 0.268810] pnp 00:00: [mem 0x000c8000-0x000cbfff window]
[ 0.268812] pnp 00:00: [mem 0x000cc000-0x000cffff window]
[ 0.268814] pnp 00:00: [mem 0x000d0000-0x000d3fff window]
[ 0.268815] pnp 00:00: [mem 0x000d4000-0x000d7fff window]
[ 0.268817] pnp 00:00: [mem 0x000d8000-0x000dbfff window]
[ 0.268819] pnp 00:00: [mem 0x000dc000-0x000dffff window]
[ 0.268820] pnp 00:00: [mem 0x000e0000-0x000e3fff window]
[ 0.268822] pnp 00:00: [mem 0x000e4000-0x000e7fff window]
[ 0.268823] pnp 00:00: [mem 0x000e8000-0x000ebfff window]
[ 0.268825] pnp 00:00: [mem 0x000ec000-0x000effff window]
[ 0.268827] pnp 00:00: [mem 0x000f0000-0x000fffff window]
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[0.268828] pnp 00:00: [mem 0xd0000000-0xfeafffff window]
[0.268861] pnp 00:00: Plug and Play ACPI device, IDs PNP0a08 PNP0a03 (active)
[0.268885] pnp 00:01: [io 0x0000-0x001f]
[0.268887] pnp 00:01: [io 0x0081-0x0091]
[0.268888] pnp 00:01: [io 0x0093-0x009f]
[0.268890] pnp 00:01: [io 0x00c0-0x00df]
[0.268892] pnp 00:01: [dma 4]
[0.268909] pnp 00:01: Plug and Play ACPI device, IDs PNP0200 (active)
[0.268916] pnp 00:02: [mem 0xff000000-0xffffffff]
[0.268933] pnp 00:02: Plug and Play ACPI device, IDs INT0800 (active)
[0.268993] pnp 00:03: [mem 0xfed00000-0xfed003ff]
[0.269011] pnp 00:03: Plug and Play ACPI device, IDs PNP0103 (active)
[0.269019] pnp 00:04: [io 0x00f0]
[0.269026] pnp 00:04: [irq 13]
[0.269044] pnp 00:04: Plug and Play ACPI device, IDs PNP0c04 (active)
[0.269062] pnp 00:05: [io 0x002e-0x002f]
[0.269063] pnp 00:05: [io 0x004e-0x004f]
[0.269065] pnp 00:05: [io 0x0061]
[0.269066] pnp 00:05: [io 0x0063]
[0.269068] pnp 00:05: [io 0x0065]
[0.269069] pnp 00:05: [io 0x0067]
[0.269070] pnp 00:05: [io 0x0070]
[0.269072] pnp 00:05: [io 0x0080]
[0.269073] pnp 00:05: [io 0x0092]
[0.269074] pnp 00:05: [io 0x00b2-0x00b3]
[0.269076] pnp 00:05: [io 0x0680-0x069f]
[0.269077] pnp 00:05: [io 0xffff]
[0.269079] pnp 00:05: [io 0xffff]
[0.269080] pnp 00:05: [io 0xffff]
[0.269081] pnp 00:05: [io 0x0400-0x0453]
[0.269083] pnp 00:05: [io 0x0458-0x047f]
[0.269084] pnp 00:05: [io 0x0500-0x057f]
[0.269086] pnp 00:05: [io 0x164e-0x164f]
[0.269117] system 00:05: [io 0x0680-0x069f] has been reserved
[0.269119] system 00:05: [io 0xffff] has been reserved
[0.269120] system 00:05: [io 0xffff] has been reserved
[0.269122] system 00:05: [io 0xffff] has been reserved
[0.269124] system 00:05: [io 0x0400-0x0453] has been reserved
[0.269126] system 00:05: [io 0x0458-0x047f] has been reserved
[0.269128] system 00:05: [io 0x0500-0x057f] has been reserved
[0.269130] system 00:05: [io 0x164e-0x164f] has been reserved
[0.269132] system 00:05: Plug and Play ACPI device, IDs PNP0c02 (active)
[0.269139] pnp 00:06: [io 0x0070-0x0077]
[0.269143] pnp 00:06: [irq 8]
[0.269161] pnp 00:06: Plug and Play ACPI device, IDs PNP0b00 (active)
[0.269184] pnp 00:07: [io 0x0454-0x0457]
[0.269212] system 00:07: [io 0x0454-0x0457] has been reserved
[0.269214] system 00:07: Plug and Play ACPI device, IDs INT3f0d PNP0c02 (active)
[0.269273] pnp 00:08: [io 0x0060]
[0.269275] pnp 00:08: [io 0x0064]
[0.269279] pnp 00:08: [irq 12]
[0.269305] pnp 00:08: Plug and Play ACPI device, IDs PNP0f13 (active)

[0.269480] pnp 00:09: [io 0x03f8-0x03ff]
[0.269484] pnp 00:09: [irq 4]
[0.269521] pnp 00:09: Plug and Play ACPI device, IDs PNP0501 (active)
[0.269697] pnp 00:0a: [mem 0xfed1c000-0xfed1ffff]
[0.269699] pnp 00:0a: [mem 0xfed10000-0xfed17fff]
[0.269700] pnp 00:0a: [mem 0xfed18000-0xfed18fff]
[0.269702] pnp 00:0a: [mem 0xfed19000-0xfed19fff]
[0.269703] pnp 00:0a: [mem 0xf8000000-0xfbffffff]
[0.269705] pnp 00:0a: [mem 0xfed20000-0xfed3ffff]
[0.269706] pnp 00:0a: [mem 0xfed90000-0xfed93fff]
[0.269708] pnp 00:0a: [mem 0xfed45000-0xfed8ffff]
[0.269709] pnp 00:0a: [mem 0xff000000-0xffffffff]
[0.269711] pnp 00:0a: [mem 0xfe000000-0xfeffffff]
[0.269712] pnp 00:0a: [mem 0x00000000-0xffffffff disabled]
[0.269714] pnp 00:0a: [mem 0x00000000-0xffffffff disabled]
[0.269755] system 00:0a: [mem 0xfed1c000-0xfed1ffff] has been reserved
[0.269757] system 00:0a: [mem 0xfed10000-0xfed17fff] has been reserved
[0.269759] system 00:0a: [mem 0xfed18000-0xfed18fff] has been reserved
[0.269761] system 00:0a: [mem 0xfed19000-0xfed19fff] has been reserved
[0.269763] system 00:0a: [mem 0xf8000000-0xfbffffff] has been reserved
[0.269765] system 00:0a: [mem 0xfed20000-0xfed3ffff] has been reserved
[0.269767] system 00:0a: [mem 0xfed90000-0xfed93fff] has been reserved
[0.269769] system 00:0a: [mem 0xfed45000-0xfed8ffff] has been reserved
[0.269771] system 00:0a: [mem 0xff000000-0xffffffff] could not be reserved
[0.269773] system 00:0a: [mem 0xfe000000-0xfeffffff] has been reserved
[0.269775] system 00:0a: Plug and Play ACPI device, IDs PNP0c02 (active)
[0.269793] ACPI Error: Invalid/unsupported resource descriptor: Type 0x00 (20120320/utresrc-650)
[0.269797] pnp 00:0b: can't evaluate _CRS: 12311
[0.269893] system 00:0b: Plug and Play ACPI device, IDs PNP0c01 (active)
[0.270055] pnp: PnP ACPI: found 12 devices
[0.270056] ACPI: ACPI bus type pnp unregistered
[0.270058] PnPBIOS: Disabled by ACPI PNP
[0.306164] pci 0000:00:01.0: PCI bridge to [bus 01-01]
[0.306167] pci 0000:00:01.0: bridge window [io 0x3000-0x3fff]
[0.306170] pci 0000:00:01.0: bridge window [mem 0xd0c00000-0xd0cfffff]
[0.306172] pci 0000:00:01.0: bridge window [mem 0xe0000000-0xefffffff 64bit pref]
[0.306176] pci 0000:00:1c.0: PCI bridge to [bus 02-02]
[0.306187] pci 0000:00:1c.2: PCI bridge to [bus 03-03]
[0.306190] pci 0000:00:1c.2: bridge window [io 0x2000-0x2fff]
[0.306195] pci 0000:00:1c.2: bridge window [mem 0xd0100000-0xd0afffff]
[0.306199] pci 0000:00:1c.2: bridge window [mem 0xf0000000-0xf09fffff 64bit pref]
[0.306205] pci 0000:00:1e.0: PCI bridge to [bus 04-04]
[0.306210] pci 0000:00:1e.0: bridge window [mem 0xd0b00000-0xd0bfffff]
[0.306245] pci 0000:00:1e.0: setting latency timer to 64
[0.306249] pci_bus 0000:00: resource 4 [io 0x0000-0x0cf7]
[0.306250] pci_bus 0000:00: resource 5 [io 0x0d00-0xffff]
[0.306252] pci_bus 0000:00: resource 6 [mem 0x000a0000-0x000bffff]
[0.306254] pci_bus 0000:00: resource 7 [mem 0xd0000000-0xfeafffff]
[0.306255] pci_bus 0000:01: resource 0 [io 0x3000-0x3fff]
[0.306257] pci_bus 0000:01: resource 1 [mem 0xd0c00000-0xd0cfffff]
[0.306259] pci_bus 0000:01: resource 2 [mem 0xe0000000-0xefffffff 64bit pref]

[0.306260] pci_bus 0000:03: resource 0 [io 0x2000-0x2fff]
[0.306262] pci_bus 0000:03: resource 1 [mem 0xd0100000-0xd0afffff]
[0.306264] pci_bus 0000:03: resource 2 [mem 0xf0000000-0xf09fffff 64bit pref]
[0.306265] pci_bus 0000:04: resource 1 [mem 0xd0b00000-0xd0bfffff]
[0.306267] pci_bus 0000:04: resource 4 [io 0x0000-0x0cf7]
[0.306269] pci_bus 0000:04: resource 5 [io 0x0d00-0xffff]
[0.306270] pci_bus 0000:04: resource 6 [mem 0x000a0000-0x000bffff]
[0.306272] pci_bus 0000:04: resource 7 [mem 0xd0000000-0xfeafffff]
[0.306335] NET: Registered protocol family 2
[0.306377] IP route cache hash table entries: 32768 (order: 5, 131072 bytes)
[0.306494] TCP established hash table entries: 131072 (order: 8, 1048576 bytes)
[0.306651] TCP bind hash table entries: 65536 (order: 7, 524288 bytes)
[0.306720] TCP: Hash tables configured (established 131072 bind 65536)
[0.306721] TCP: reno registered
[0.306723] UDP hash table entries: 512 (order: 2, 16384 bytes)
[0.306727] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[0.306789] NET: Registered protocol family 1
[0.306864] pci 0000:01:00.0: Boot video device
[0.306921] PCI: CLS 64 bytes, default 64
[0.306950] Unpacking initramfs...
[0.512091] Freeing initrd memory: 13720k freed
[0.513547] Simple Boot Flag at 0xf3 set to 0x1
[0.513927] audit: initializing netlink socket (disabled)
[0.513941] type=2000 audit(1472262017.404:1): initialized
[0.523242] highmem bounce pool size: 64 pages
[0.523246] HugeTLB registered 4 MB page size, pre-allocated 0 pages
[0.523405] VFS: Disk quotas dquot_6.5.2
[0.523426] Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[0.523479] msgmni has been set to 1696
[0.523599] alg: No test for stdrng (krng)
[0.523620] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 253)
[0.523622] io scheduler noop registered
[0.523624] io scheduler deadline registered
[0.523642] io scheduler cfq registered (default)
[0.523804] pci_hotplug: PCI Hot Plug PCI Core version: 0.5
[0.523816] pciehp: PCI Express Hot Plug Controller Driver version: 0.4
[0.523817] acpiphp: ACPI Hot Plug PCI Controller Driver version: 0.5
[0.524111] GHES: HEST is not enabled!
[0.524118] isapnp: Scanning for PnP cards...
[0.877975] isapnp: No Plug & Play device found
[0.878006] Serial: 8250/16550 driver, 4 ports, IRQ sharing enabled
[0.898421] serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[0.919053] 00:09: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[0.939344] 0000:00:16.3: ttyS1 at I/O 0x4080 (irq = 17) is a 16550A
[0.939485] Linux agpgart interface v0.103
[0.939639] i8042: PNP: PS/2 Controller [PNP0f13:MOU] at 0x60,0x64 irq 12
[0.939641] i8042: PNP: PS/2 controller doesn't have KBD irq; using default 1
[0.942622] serio: i8042 KBD port at 0x60,0x64 irq 1
[0.942642] serio: i8042 AUX port at 0x60,0x64 irq 12
[0.942712] mousedev: PS/2 mouse device common for all mice
[0.942744] rtc_cmos 00:06: RTC can wake from S4
[0.942856] rtc_cmos 00:06: rtc core: registered rtc_cmos as rtc0

[0.942883] rtc0: alarms up to one year, y3k, 242 bytes nvram, hpet irqs
[0.942965] TCP: cubic registered
[0.943019] NET: Registered protocol family 10
[0.943173] Mobile IPv6
[0.943175] NET: Registered protocol family 17
[0.943178] Registering the dns_resolver key type
[0.943210] Using IPI No-Shortcut mode
[0.943278] PM: Hibernation image not present or could not be loaded.
[0.943284] registered taskstats version 1
[0.943586] rtc_cmos 00:06: setting system clock to 2016-08-27 01:40:18 UTC (1472262018)
[0.943662] Freeing unused kernel memory: 416k freed
[0.943753] Write protecting the kernel text: 3496k
[0.943771] Write protecting the kernel read-only data: 984k
[0.951275] udevd[58]: starting version 175
[0.960828] usbcore: registered new interface driver usbfs
[0.960843] usbcore: registered new interface driver hub
[0.963030] microcode: CPU0 sig=0x206a7, pf=0x2, revision=0x28
[0.963308] usbcore: registered new device driver usb
[0.963544] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[0.963590] ehci_hcd 0000:00:1a.0: setting latency timer to 64
[0.963594] ehci_hcd 0000:00:1a.0: EHCI Host Controller
[0.963611] ehci_hcd 0000:00:1a.0: new USB bus registered, assigned bus number 1
[0.963632] ehci_hcd 0000:00:1a.0: debug port 2
[0.967524] ehci_hcd 0000:00:1a.0: cache line size of 64 is not supported
[0.967543] ehci_hcd 0000:00:1a.0: irq 16, io mem 0xd0d40000
[0.977644] SCSI subsystem initialized
[0.978605] ehci_hcd 0000:00:1a.0: USB 2.0 started, EHCI 1.00
[0.978625] usb usb1: New USB device found, idVendor=1d6b, idProduct=0002
[0.978627] usb usb1: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.978629] usb usb1: Product: EHCI Host Controller
[0.978630] usb usb1: Manufacturer: Linux 3.4-9-rtai-686-pae ehci_hcd
[0.978632] usb usb1: SerialNumber: 0000:00:1a.0
[0.978911] hub 1-0:1.0: USB hub found
[0.978914] hub 1-0:1.0: 3 ports detected
[0.978997] ehci_hcd 0000:00:1d.0: setting latency timer to 64
[0.979000] ehci_hcd 0000:00:1d.0: EHCI Host Controller
[0.979006] ehci_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 2
[0.979028] ehci_hcd 0000:00:1d.0: debug port 2
[0.979979] xhci_hcd 0000:03:00.0: xHCI Host Controller
[0.979986] xhci_hcd 0000:03:00.0: new USB bus registered, assigned bus number 3
[0.980319] usb usb3: New USB device found, idVendor=1d6b, idProduct=0002
[0.980321] usb usb3: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.980323] usb usb3: Product: xHCI Host Controller
[0.980324] usb usb3: Manufacturer: Linux 3.4-9-rtai-686-pae xhci_hcd
[0.980326] usb usb3: SerialNumber: 0000:03:00.0
[0.980561] xHCI xhci_add_endpoint called for root hub
[0.980563] xHCI xhci_check_bandwidth called for root hub
[0.980589] hub 3-0:1.0: USB hub found
[0.980601] hub 3-0:1.0: 2 ports detected
[0.980663] xhci_hcd 0000:03:00.0: xHCI Host Controller
[0.980667] xhci_hcd 0000:03:00.0: new USB bus registered, assigned bus number 4
[0.982377] libata version 3.00 loaded.

[0.982903] ehci_hcd 0000:00:1d.0: cache line size of 64 is not supported
[0.982919] ehci_hcd 0000:00:1d.0: irq 17, io mem 0xd0d30000
[0.983516] usb usb4: New USB device found, idVendor=1d6b, idProduct=0003
[0.983519] usb usb4: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.983520] usb usb4: Product: xHCI Host Controller
[0.983522] usb usb4: Manufacturer: Linux 3.4-9-rtai-686-pae xhci_hcd
[0.983523] usb usb4: SerialNumber: 0000:03:00.0
[0.983579] xHCI xhci_add_endpoint called for root hub
[0.983580] xHCI xhci_check_bandwidth called for root hub
[0.983601] hub 4-0:1.0: USB hub found
[0.983612] hub 4-0:1.0: 2 ports detected
[0.986204] microcode: CPU0 updated to revision 0x29, date = 2013-06-12
[0.986211] microcode: CPU1 sig=0x206a7, pf=0x2, revision=0x28
[0.987856] microcode: CPU1 updated to revision 0x29, date = 2013-06-12
[0.987866] microcode: CPU2 sig=0x206a7, pf=0x2, revision=0x28
[0.989546] microcode: CPU2 updated to revision 0x29, date = 2013-06-12
[0.989556] microcode: CPU3 sig=0x206a7, pf=0x2, revision=0x28
[0.991180] microcode: CPU3 updated to revision 0x29, date = 2013-06-12
[0.991212] microcode: Microcode Update Driver: v2.00 <tigran@aivazian.fsnet.co.uk>, Peter Oruba
[0.992310] ehci_hcd 0000:00:1d.0: USB 2.0 started, EHCI 1.00
[0.992325] usb usb2: New USB device found, idVendor=1d6b, idProduct=0002
[0.992327] usb usb2: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.992329] usb usb2: Product: EHCI Host Controller
[0.992331] usb usb2: Manufacturer: Linux 3.4-9-rtai-686-pae ehci_hcd
[0.992332] usb usb2: SerialNumber: 0000:00:1d.0
[0.992417] hub 2-0:1.0: USB hub found
[0.992422] hub 2-0:1.0: 3 ports detected
[0.992479] ahci 0000:00:1f.2: version 3.0
[1.008305] ahci 0000:00:1f.2: AHCI 0001.0300 32 slots 6 ports 6 Gbps 0x5 impl SATA mode
[1.008308] ahci 0000:00:1f.2: flags: 64bit ncq sntf pm led clo pio slum part ems apst
[1.008313] ahci 0000:00:1f.2: setting latency timer to 64
[1.016660] scsi0 : ahci
[1.016741] scsi1 : ahci
[1.016795] scsi2 : ahci
[1.016848] scsi3 : ahci
[1.016900] scsi4 : ahci
[1.016953] scsi5 : ahci
[1.016987] ata1: SATA max UDMA/133 abar m2048@0xd0d20000 port 0xd0d20100 irq 18
[1.016989] ata2: DUMMY
[1.016992] ata3: SATA max UDMA/133 abar m2048@0xd0d20000 port 0xd0d20200 irq 18
[1.016993] ata4: DUMMY
[1.016994] ata5: DUMMY
[1.016995] ata6: DUMMY
[1.288237] usb 1-1: new high-speed USB device number 2 using ehci_hcd
[1.336228] ata1: SATA link up 6.0 Gbps (SStatus 133 SControl 300)
[1.336246] ata3: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
[1.337022] ata1.00: ATA-8: WDC WD2500AAKX-753CA1, 17.01H17, max UDMA/133
[1.337024] ata1.00: 488397168 sectors, multi 16: LBA48 NCQ (depth 31/32), AA
[1.337916] ata1.00: configured for UDMA/133
[1.338005] scsi 0:0:0:0: Direct-Access ATA WDC WD2500AAKX-7 17.0 PQ: 0 ANSI: 5
[1.338655] ata3.00: ATAPI: PLDS DVD+/-RW DH-16ABS, PD11, max UDMA/100

```
[ 1.339452] ata3.00: configured for UDMA/100
[ 1.341355] scsi 2:0:0:0: CD-ROM      PLDS   DVD+-RW DH-16ABS PD11 PQ: 0 ANSI: 5
[ 1.343779] sd 0:0:0:0: [sda] 488397168 512-byte logical blocks: (250 GB/232 GiB)
[ 1.343810] sd 0:0:0:0: [sda] Write Protect is off
[ 1.343812] sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
[ 1.343824] sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or
FUA
[ 1.346934] sr0: scsi3-mmc drive: 48x/48x writer dvd-ram cd/rw xa/form2 cdda tray
[ 1.346936] cdrom: Uniform CD-ROM driver Revision: 3.20
[ 1.347019] sr 2:0:0:0: Attached scsi CD-ROM sr0
[ 1.380801] sda: sda1 sda2 < sda5 >
[ 1.380998] sd 0:0:0:0: [sda] Attached SCSI disk
[ 1.382054] sd 0:0:0:0: Attached scsi generic sg0 type 0
[ 1.382090] sr 2:0:0:0: Attached scsi generic sg1 type 5
[ 1.420612] usb 1-1: New USB device found, idVendor=8087, idProduct=0024
[ 1.420614] usb 1-1: New USB device strings: Mfr=0, Product=0, SerialNumber=0
[ 1.420758] hub 1-1:1.0: USB hub found
[ 1.420860] hub 1-1:1.0: 6 ports detected
[ 1.512187] Refined TSC clocksource calibration: 3092.972 MHz.
[ 1.512191] Switching to clocksource tsc
[ 1.532179] usb 2-1: new high-speed USB device number 2 using ehci_hcd
[ 1.664554] usb 2-1: New USB device found, idVendor=8087, idProduct=0024
[ 1.664556] usb 2-1: New USB device strings: Mfr=0, Product=0, SerialNumber=0
[ 1.664697] hub 2-1:1.0: USB hub found
[ 1.664803] hub 2-1:1.0: 8 ports detected
[ 1.936246] usb 2-1.3: new full-speed USB device number 3 using ehci_hcd
[ 2.029096] usb 2-1.3: New USB device found, idVendor=413c, idProduct=1005
[ 2.029098] usb 2-1.3: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[ 2.029100] usb 2-1.3: Product: Dell Multimedia Pro Keyboard Hub
[ 2.029102] usb 2-1.3: Manufacturer: Dell
[ 2.029857] hub 2-1.3:1.0: USB hub found
[ 2.029971] hub 2-1.3:1.0: 3 ports detected
[ 2.100208] usb 2-1.6: new low-speed USB device number 4 using ehci_hcd
[ 2.197684] usb 2-1.6: New USB device found, idVendor=046d, idProduct=c063
[ 2.197686] usb 2-1.6: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[ 2.197687] usb 2-1.6: Product: DELL USB Laser Mouse
[ 2.197689] usb 2-1.6: Manufacturer: DELL
[ 2.203527] input: DELL DELL USB Laser Mouse as /devices/pci0000:00/0000:00:1d.0/usb2/2-
1/2-1.6/2-1.6:1.0/input/input0
[ 2.203582] generic-usb 0003:046D:C063.0001: input,hidraw0: USB HID v1.10 Mouse [DELL
DELL USB Laser Mouse] on usb-0000:00:1d.0-1.6/input0
[ 2.203595] usbcore: registered new interface driver usbhid
[ 2.203596] usbhid: USB HID core driver
[ 2.300161] usb 2-1.3.1: new low-speed USB device number 5 using ehci_hcd
[ 2.398012] usb 2-1.3.1: New USB device found, idVendor=413c, idProduct=2011
[ 2.398014] usb 2-1.3.1: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[ 2.398016] usb 2-1.3.1: Product: Dell Multimedia Pro Keyboard
[ 2.398017] usb 2-1.3.1: Manufacturer: Dell
[ 2.403734] input: Dell Dell Multimedia Pro Keyboard as
/devices/pci0000:00/0000:00:1d.0/usb2/2-1/2-1.3/2-1.3.1/2-1.3.1:1.0/input/input1
[ 2.403776] generic-usb 0003:413C:2011.0002: input,hidraw1: USB HID v1.10 Keyboard [Dell
Dell Multimedia Pro Keyboard] on usb-0000:00:1d.0-1.3.1/input0
```

[2.411042] input: Dell Dell Multimedia Pro Keyboard as
/devices/pci0000:00/0000:00:1d.0/usb2/2-1/2-1.3/2-1.3.1/2-1.3.1:1.1/input/input2

[2.411075] generic-usb 0003:413C:2011.0003: input,hidraw2: USB HID v1.10 Device [Dell Dell
Multimedia Pro Keyboard] on usb-0000:00:1d.0-1.3.1/input1

[6.754638] PM: Starting manual resume from disk

[6.754640] PM: Hibernation image partition 8:5 present

[6.754642] PM: Looking for hibernation image.

[6.754770] PM: Image not found (code -22)

[6.754772] PM: Hibernation image not present or could not be loaded.

[6.795722] EXT4-fs (sda1): mounted filesystem with ordered data mode. Opts: (null)

[8.745450] udevd[410]: starting version 175

[8.968635] input: Power Button as
/devices/LNXSYSTM:00/LNXXSYBUS:00/PNP0C0C:00/input/input3

[8.968640] ACPI: Power Button [PWRB]

[8.968675] input: Power Button as /devices/LNXSYSTM:00/LNXPWRBN:00/input/input4

[8.968678] ACPI: Power Button [PWRF]

[9.313176] dcdbas dcdbas: Dell Systems Management Base Driver (version 5.6.0-3.2)

[9.327124] iTCO_vendor_support: vendor-support=0

[9.331235] iTCO_wdt: Intel TCO WatchDog Timer Driver v1.07

[9.331286] iTCO_wdt: Found a Cougar Point TCO device (Version=2, TCOBASE=0x0460)

[9.331333] iTCO_wdt: initialized. heartbeat=30 sec (nowayout=0)

[9.416722] ACPI Warning: 0x00004000-0x0000401f SystemIO conflicts with Region
_SB_PCI0.SBUS.SMBI 1 (20120320/utaddress-251)

[9.416728] ACPI: If an ACPI driver is available for this device, you should use it instead of the
native driver

[9.441150] [drm] Initialized drm 1.1.0 20060810

[9.480623] [drm] radeon kernel modesetting enabled.

[9.480766] [drm] initializing kernel modesetting (CEDAR 0x1002:0x68F9 0x1028:0x2126).

[9.480785] [drm] register mmio base: 0xD0C20000

[9.480786] [drm] register mmio size: 131072

[9.480836] ATOM BIOS: C09002

[9.480852] radeon 0000:01:00.0: VRAM: 512M 0x0000000000000000 - 0x000000001FFFFFFF
(512M used)

[9.480854] radeon 0000:01:00.0: GTT: 512M 0x0000000020000000 - 0x000000003FFFFFFF

[9.482678] [drm] Detected VRAM RAM=512M, BAR=256M

[9.482681] [drm] RAM width 64bits DDR

[9.482723] [TTM] Zone kernel: Available graphics memory: 434384 kiB

[9.482725] [TTM] Zone highmem: Available graphics memory: 1678268 kiB

[9.482726] [TTM] Initializing pool allocator

[9.482745] [drm] radeon: 512M of VRAM memory ready

[9.482746] [drm] radeon: 512M of GTT memory ready.

[9.482758] [drm] GART: num cpu pages 131072, num gpu pages 131072

[9.482903] [drm] radeon: ib pool ready.

[9.482960] [drm] Loading CEDAR Microcode

[10.529759] [drm] PCIE GART of 512M enabled (table at 0x00000000000040000).

[10.529858] radeon 0000:01:00.0: WB enabled

[10.529861] [drm] fence driver on ring 0 use gpu addr 0x20000c00 and cpu addr 0xff968c00

[10.529864] [drm] Supports vblank timestamp caching Rev 1 (10.10.2010).

[10.529865] [drm] Driver supports precise vblank timestamp query.

[10.529882] [drm] radeon: irq initialized.

[10.546042] [drm] ring test on 0 succeeded in 1 usecs

[10.546130] [drm] ib test on ring 0 succeeded in 0 usecs

[10.546312] [drm] Radeon Display Connectors
[10.546314] [drm] Connector 0:
[10.546315] [drm] DVI-I
[10.546316] [drm] HPD2
[10.546318] [drm] DDC: 0x6460 0x6460 0x6464 0x6464 0x6468 0x6468 0x646c 0x646c
[10.546319] [drm] Encoders:
[10.546320] [drm] DFP1: INTERNAL_UNIPHY1
[10.546321] [drm] CRT2: INTERNAL_KLDSCP_DAC2
[10.546323] [drm] Connector 1:
[10.546324] [drm] DVI-I
[10.546325] [drm] HPD4
[10.546326] [drm] DDC: 0x6450 0x6450 0x6454 0x6454 0x6458 0x6458 0x645c 0x645c
[10.546327] [drm] Encoders:
[10.546328] [drm] DFP2: INTERNAL_UNIPHY
[10.546329] [drm] CRT1: INTERNAL_KLDSCP_DAC1
[10.546360] [drm] Internal thermal controller with fan control
[10.546384] [drm] radeon: power management initialized
[10.592438] [drm] fb mappable at 0xE0142000
[10.592439] [drm] vram apper at 0xE0000000
[10.592440] [drm] size 5242880
[10.592441] [drm] fb depth is 24
[10.592442] [drm] pitch is 5120
[10.592484] fbcon: radeondrmfb (fb0) is primary device
[10.825780] Console: switching to colour frame buffer device 160x64
[10.828305] fb0: radeondrmfb frame buffer device
[10.828307] drm: registered panic notifier
[10.828311] [drm] Initialized radeon 2.16.0 20080528 for 0000:01:00.0 on minor 0
[11.592726] Adding 9920508k swap on /dev/sda5. Priority:-1 extents:1 across:9920508k
[11.600863] EXT4-fs (sda1): re-mounted. Opts: (null)
[11.808291] EXT4-fs (sda1): re-mounted. Opts: errors=remount-ro
[11.894058] loop: module loaded
[12.919111] RPC: Registered named UNIX socket transport module.
[12.919113] RPC: Registered udp transport module.
[12.919115] RPC: Registered tcp transport module.
[12.919116] RPC: Registered tcp NFSv4.1 backchannel transport module.
[12.970349] FS-Cache: Loaded
[12.989908] NFS: Registering the id_resolver key type
[12.989920] FS-Cache: Netfs 'nfs' registered for caching
[13.001218] Installing knfsd (copyright (C) 1996 okir@monad.swb.de).
[15.002328] input: ACPI Virtual Keyboard Device as /devices/virtual/input/input5
[16.900159] Bluetooth: Core ver 2.16
[16.900170] NET: Registered protocol family 31
[16.900171] Bluetooth: HCI device and connection manager initialized
[16.900173] Print file information:
RUN_IN_PLACE=no
LINUXCNC_DIR=
LINUXCNC_BIN_DIR=/usr/bin
LINUXCNC_TCL_DIR=/usr/lib/tcltk/linuxcnc
LINUXCNC_SCRIPT_DIR=
LINUXCNC_RTLLIB_DIR=/usr/realtime-3.4-9-rtai-686-pae/modules/linuxcnc
LINUXCNC_CONFIG_DIR=
LINUXCNC_LANG_DIR=/usr/share/linuxcnc/tcl/messages


```
INIVAR=inivar
HALCMD=halcmd
LINUXCNC_EMCSH=/usr/bin/wish8.5
LINUXCNC - 2.7.4
Machine configuration directory is '/home/saj2016/linuxcnc/configs/EMCO'
Machine configuration file is 'EMCO.ini'
INIFILE=/home/saj2016/linuxcnc/configs/EMCO/EMCO.ini
PARAMETER_FILE=linuxcnc.var
TASK=milltask
HALUI=halui
DISPLAY=axis
Starting LinuxCNC...
Starting LinuxCNC server program: linuxcncsvr
Loading Real Time OS, RTAPI, and HAL_LIB modules
Starting LinuxCNC IO program: io
Starting HAL User Interface program: halui
Found file(REL): ./EMCO.hal
Shutting down and cleaning up LinuxCNC...
Running HAL shutdown script
Killing task linuxcncsvr, PID=3437
Removing HAL_LIB, RTAPI, and Real Time OS modules
Removing NML shared memory segments
```

Debug file information:

```
./EMCO.hal:22: Pin 'hm2_5i25.0.7i76.0.0.output-15' does not exist
3437
```

```
PID TTY STAT TIME COMMAND
```

```
Stopping realtime threads
```

```
Unloading hal components
```

Kernel message information:

```
[ 0.000000] Initializing cgroup subsys cpuset
[ 0.000000] Initializing cgroup subsys cpu
[ 0.000000] Linux version 3.4-9-rtai-686-pae (Debian 3.4.55-4linuxcnc) () (gcc version 4.6.3
(Debian 4.6.3-14) ) #1 SMP PREEMPT Debian 3.4.55-4linuxcnc
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: 0000000000000000 - 000000000009ac00 (usable)
[ 0.000000] BIOS-e820: 000000000009ac00 - 00000000000a0000 (reserved)
[ 0.000000] BIOS-e820: 00000000000e0000 - 0000000000100000 (reserved)
[ 0.000000] BIOS-e820: 0000000000100000 - 00000000cf1f7000 (usable)
[ 0.000000] BIOS-e820: 00000000cf1f7000 - 00000000cf23b000 (reserved)
[ 0.000000] BIOS-e820: 00000000cf23b000 - 00000000cf5b7000 (usable)
[ 0.000000] BIOS-e820: 00000000cf5b7000 - 00000000cf5e7000 (reserved)
[ 0.000000] BIOS-e820: 00000000cf5e7000 - 00000000cf7e7000 (ACPI NVS)
[ 0.000000] BIOS-e820: 00000000cf7e7000 - 00000000cf7ff000 (ACPI data)
[ 0.000000] BIOS-e820: 00000000cf7ff000 - 00000000cf800000 (usable)
[ 0.000000] BIOS-e820: 00000000fed1c000 - 00000000fed20000 (reserved)
[ 0.000000] BIOS-e820: 00000000ffc00000 - 00000000ffc20000 (reserved)
[ 0.000000] BIOS-e820: 0000000100000000 - 000000022e000000 (usable)
[ 0.000000] Notice: NX (Execute Disable) protection cannot be enabled: non-PAE kernel!
[ 0.000000] SMBIOS 2.6 present.
[ 0.000000] DMI: Dell Inc. OptiPlex 790/0HY9JP, BIOS A17 03/14/2013
```

```
[ 0.000000] e820 update range: 0000000000000000 - 0000000000010000 (usable) ==> (reserved)
[ 0.000000] e820 remove range: 00000000000a0000 - 0000000000010000 (usable)
[ 0.000000] last_pfn = 0xcf800 max_arch_pfn = 0x100000
[ 0.000000] MTRR default type: uncachable
[ 0.000000] MTRR fixed ranges enabled:
[ 0.000000] 00000-97FFF write-back
[ 0.000000] 98000-9BFFF write-protect
[ 0.000000] 9C000-9FFFF write-back
[ 0.000000] A0000-BFFFF uncachable
[ 0.000000] C0000-FFFFFF write-protect
[ 0.000000] MTRR variable ranges enabled:
[ 0.000000] 0 base 00000000 mask F8000000 write-back
[ 0.000000] 1 base 08000000 mask FC000000 write-back
[ 0.000000] 2 base 0C000000 mask FF000000 write-back
[ 0.000000] 3 base 10000000 mask F0000000 write-back
[ 0.000000] 4 base 20000000 mask FE000000 write-back
[ 0.000000] 5 base 22000000 mask FF000000 write-back
[ 0.000000] 6 base 22E00000 mask FFE00000 uncachable
[ 0.000000] 7 base 0FFC0000 mask FFFC0000 write-protect
[ 0.000000] 8 disabled
[ 0.000000] 9 disabled
[ 0.000000] x86 PAT enabled: cpu 0, old 0x7040600070406, new 0x7010600070106
[ 0.000000] found SMP MP-table at [c00f2210] f2210
[ 0.000000] initial memory mapped : 0 - 01800000
[ 0.000000] Base memory trampoline at [c0096000] 96000 size 16384
[ 0.000000] init_memory_mapping: 0000000000000000-00000000377fe000
[ 0.000000] 0000000000 - 0000400000 page 4k
[ 0.000000] 0000400000 - 0037400000 page 2M
[ 0.000000] 0037400000 - 00377fe000 page 4k
[ 0.000000] kernel direct mapping tables up to 0x377fdfff @ [mem 0x017f8000-0x017fffff]
[ 0.000000] RAMDISK: 36524000 - 3728a000
[ 0.000000] ACPI: RSDP 000fe300 00024 (v02 DELL )
[ 0.000000] ACPI: XSDT cf7fde18 00074 (v01 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI: FACP cf787d98 000F4 (v04 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI Warning: 32/64 FACS address mismatch in FADT - two FACS tables!
(20120320/tbfadt-378)
[ 0.000000] ACPI Warning: 32/64X FACS address mismatch in FADT -
0xCF7E4E40/0x00000000CF7E4D40, using 32 (20120320/tbfadt-502)
[ 0.000000] ACPI: DSDT cf771018 07581 (v02 INT430 SYSFexxx 00001001 INTL 20090903)
[ 0.000000] ACPI: FACS cf7e4e40 00040
[ 0.000000] ACPI: APIC cf7fcf18 000CC (v02 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI: TCPA cf7e5d18 00032 (v02 00000000 00000000)
[ 0.000000] ACPI: SSDT cf788a98 002F9 (v01 DELLTPM TPM 00003000 INTL 20090903)
[ 0.000000] ACPI: MCFG cf7e5c98 0003C (v01 DELL SNDYBRDG 06222004 MSFT
00000097)
[ 0.000000] ACPI: HPET cf7e5c18 00038 (v01 AMI PCHHPET 06222004 AMI. 00000003)
[ 0.000000] ACPI: BOOT cf7e5b98 00028 (v01 DELL CBX3 06222004 AMI 00010013)
[ 0.000000] ACPI: SSDT cf77e818 007C2 (v01 PmRef Cpu0Ist 00003000 INTL 20090903)
[ 0.000000] ACPI: SSDT cf77d018 00996 (v01 PmRef CpuPm 00003000 INTL 20090903)
[ 0.000000] ACPI: SLIC cf786c18 00176 (v03 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI: Local APIC address 0xfe00000
[ 0.000000] 2432MB HIGHMEM available.
```

```
[ 0.000000] 887MB LOWMEM available.
[ 0.000000] mapped low ram: 0 - 377fe000
[ 0.000000] low ram: 0 - 377fe000
[ 0.000000] Zone PFN ranges:
[ 0.000000] DMA    0x00000010 -> 0x00001000
[ 0.000000] Normal 0x00001000 -> 0x000377fe
[ 0.000000] HighMem 0x000377fe -> 0x000cf800
[ 0.000000] Movable zone start PFN for each node
[ 0.000000] Early memory PFN ranges
[ 0.000000] 0: 0x00000010 -> 0x0000009a
[ 0.000000] 0: 0x00000100 -> 0x000cf1f7
[ 0.000000] 0: 0x000cf23b -> 0x000cf5b7
[ 0.000000] 0: 0x000cf7ff -> 0x000cf800
[ 0.000000] On node 0 totalpages: 849150
[ 0.000000] free_area_init_node: node 0, pgdat c1498a00, node_mem_map f4b34200
[ 0.000000] DMA zone: 32 pages used for memmap
[ 0.000000] DMA zone: 0 pages reserved
[ 0.000000] DMA zone: 3946 pages, LIFO batch:0
[ 0.000000] Normal zone: 1744 pages used for memmap
[ 0.000000] Normal zone: 221486 pages, LIFO batch:31
[ 0.000000] HighMem zone: 4865 pages used for memmap
[ 0.000000] HighMem zone: 617077 pages, LIFO batch:31
[ 0.000000] Using APIC driver default
[ 0.000000] ACPI: PM-Timer IO Port: 0x408
[ 0.000000] ACPI: Local APIC address 0xfe00000
[ 0.000000] ACPI: LAPIC (acpi_id[0x01] lapic_id[0x00] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x02] lapic_id[0x02] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x03] lapic_id[0x04] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x04] lapic_id[0x06] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x05] lapic_id[0x04] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x06] lapic_id[0x05] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x07] lapic_id[0x06] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x08] lapic_id[0x07] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x09] lapic_id[0x08] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0a] lapic_id[0x09] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0b] lapic_id[0x0a] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0c] lapic_id[0x0b] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0d] lapic_id[0x0c] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0e] lapic_id[0x0d] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0f] lapic_id[0x0e] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x10] lapic_id[0x0f] disabled)
[ 0.000000] ACPI: IOAPIC (id[0x02] address[0xfec00000] gsi_base[0])
[ 0.000000] IOAPIC[0]: apic_id 2, version 32, address 0xfec00000, GSI 0-23
[ 0.000000] ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl dfl)
[ 0.000000] ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 high level)
[ 0.000000] ACPI: IRQ0 used by override.
[ 0.000000] ACPI: IRQ2 used by override.
[ 0.000000] ACPI: IRQ9 used by override.
[ 0.000000] Using ACPI (MADT) for SMP configuration information
[ 0.000000] ACPI: HPET id: 0x8086a701 base: 0xfed00000
[ 0.000000] 16 Processors exceeds NR_CPUS limit of 8
[ 0.000000] SMP: Allowing 8 CPUs, 4 hotplug CPUs
```

```
[ 0.000000] nr_irqs_gsi: 40
[ 0.000000] PM: Registered nosave memory: 000000000009a000 - 000000000009b000
[ 0.000000] PM: Registered nosave memory: 000000000009b000 - 00000000000a0000
[ 0.000000] PM: Registered nosave memory: 00000000000a0000 - 00000000000e0000
[ 0.000000] PM: Registered nosave memory: 00000000000e0000 - 0000000000100000
[ 0.000000] Allocating PCI resources starting at cf800000 (gap: cf800000:2f51c000)
[ 0.000000] setup_percpu: NR_CPUS:8 nr_cpumask_bits:8 nr_cpu_ids:8 nr_node_ids:1
[ 0.000000] PERCPU: Embedded 17 pages/cpu @f7763000 s48384 r0 d21248 u69632
[ 0.000000] pcpu-alloc: s48384 r0 d21248 u69632 alloc=17*4096
[ 0.000000] pcpu-alloc: [0] 0 [0] 1 [0] 2 [0] 3 [0] 4 [0] 5 [0] 6 [0] 7
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 842509
[ 0.000000] Kernel command line: BOOT_IMAGE=/boot/vmlinuz-3.4-9-rtai-686-pae
root=UUID=0291646e-08d8-4e58-870e-ced0690f298d ro initrd=/install/gtk/initrd.gz lapic quiet
rootdelay=5
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Initializing CPU#0
[ 0.000000] xsave/xrstor: enabled xstate_bv 0x7, cntxt size 0x340
[ 0.000000] allocated 6799232 bytes of page_cgroup
[ 0.000000] please try 'cgroup_disable=memory' option if you don't want memory cgroups
[ 0.000000] Initializing HighMem for node 0 (000377fe:000cf800)
[ 0.000000] Memory: 3342400k/3399680k available (3495k kernel code, 54200k reserved, 1237k
data, 416k init, 2487768k highmem)
[ 0.000000] virtual kernel memory layout:
[ 0.000000]   fixmap : 0xfff17000 - 0xfffff000 ( 928 kB)
[ 0.000000]   pkmap : 0xff800000 - 0xffc00000 (4096 kB)
[ 0.000000]   vmalloc : 0xf7ffe000 - 0xff7fe000 ( 120 MB)
[ 0.000000]   lowmem : 0xc0000000 - 0xf77fe000 ( 887 MB)
[ 0.000000]   .init : 0xc14a0000 - 0xc1508000 ( 416 kB)
[ 0.000000]   .data : 0xc1369d4a - 0xc149f480 (1237 kB)
[ 0.000000]   .text : 0xc1000000 - 0xc1369d4a (3495 kB)
[ 0.000000] Checking if this processor honours the WP bit even in supervisor mode...Ok.
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] RCU dyntick-idle grace-period acceleration is enabled.
[ 0.000000] NR_IRQS:2304 nr_irqs:744 16
[ 0.000000] CPU 0 irqstacks, hard=f4006000 soft=f4008000
[ 0.000000] Extended CMOS year: 2000
[ 0.000000] Interrupt pipeline (release #3)
[ 0.000000] Console: colour VGA+ 80x25
[ 0.000000] console [tty0] enabled
[ 0.000000] hpet clockevent registered
[ 0.000000] Fast TSC calibration using PIT
[ 0.004000] Detected 3093.085 MHz processor.
[ 0.000001] Calibrating delay loop (skipped), value calculated using timer frequency.. 6186.17
BogoMIPS (lpj=12372340)
[ 0.000004] pid_max: default: 32768 minimum: 301
[ 0.000031] Security Framework initialized
[ 0.000035] AppArmor: AppArmor disabled by boot time parameter
[ 0.000046] Mount-cache hash table entries: 512
[ 0.000177] Initializing cgroup subsys cpuacct
[ 0.000179] Initializing cgroup subsys memory
```

```
[ 0.000184] Initializing cgroup subsys devices
[ 0.000186] Initializing cgroup subsys freezer
[ 0.000187] Initializing cgroup subsys net_cls
[ 0.000188] Initializing cgroup subsys blkio
[ 0.000192] Initializing cgroup subsys perf_event
[ 0.000212] CPU: Physical Processor ID: 0
[ 0.000213] CPU: Processor Core ID: 0
[ 0.000217] ENERGY_PERF_BIAS: Set to 'normal', was 'performance'
[ 0.000217] ENERGY_PERF_BIAS: View and update with x86_energy_perf_policy(8)
[ 0.000219] mce: CPU supports 9 MCE banks
[ 0.000229] CPU0: Thermal monitoring enabled (TM1)
[ 0.000301] ACPI: Core revision 20120320
[ 0.004466] Enabling APIC mode: Flat. Using 1 I/O APICs
[ 0.004859] ..TIMER: vector=0x30 apic1=0 pin1=2 apic2=-1 pin2=-1
[ 0.044537] CPU0: Intel(R) Core(TM) i5-2400 CPU @ 3.10GHz stepping 07
[ 0.148982] Performance Events: PEBS fmt1+, 16-deep LBR, SandyBridge events, Intel PMU
driver.
[ 0.148988] PEBS disabled due to CPU errata.
[ 0.148990] ... version:          3
[ 0.148991] ... bit width:          48
[ 0.148992] ... generic registers:   8
[ 0.148994] ... value mask:         0000ffffffff
[ 0.148995] ... max period:         000000007fffffff
[ 0.148996] ... fixed-purpose events: 3
[ 0.148997] ... event mask:         0000000070000000ff
[ 0.161020] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.172984] CPU 1 irqstacks, hard=f4118000 soft=f411a000
[ 0.172986] Booting Node 0, Processors #1
[ 0.183281] Initializing CPU#1
[ 0.186133] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.192983] CPU 2 irqstacks, hard=f4148000 soft=f414a000
[ 0.192985] #2
[ 0.203214] Initializing CPU#2
[ 0.206128] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.212977] CPU 3 irqstacks, hard=f415c000 soft=f415e000
[ 0.212979] #3
[ 0.223209] Initializing CPU#3
[ 0.226122] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.226148] Brought up 4 CPUs
[ 0.226150] Total of 4 processors activated (24744.68 BogomIPS).
[ 0.228501] devtmpfs: initialized
[ 0.228665] PM: Registering ACPI NVS region [mem 0xcf5e7000-0xcf7e6fff] (2097152 bytes)
[ 0.228786] dummy:
[ 0.228829] NET: Registered protocol family 16
[ 0.228915] ACPI FADT declares the system doesn't support PCIe ASPM, so disable it
[ 0.228917] ACPI: bus type pci registered
[ 0.228971] PCI: MMCONFIG for domain 0000 [bus 00-3f] at [mem 0xf8000000-0xfbffffff]
(base 0xf8000000)
[ 0.228973] PCI: not using MMCONFIG
[ 0.229127] PCI: PCI BIOS revision 2.10 entry at 0xfd092, last bus=4
[ 0.229128] PCI: Using configuration type 1 for base access
[ 0.229134] dmi type 0xB1 record - unknown flag
```

[0.229218] mtrr: your CPUs had inconsistent fixed MTRR settings
[0.229219] mtrr: probably your BIOS does not setup all CPUs.
[0.229220] mtrr: corrected configuration.
[0.229575] bio: create slab <bio-0> at 0
[0.229643] ACPI: Added _OSI(Module Device)
[0.229645] ACPI: Added _OSI(Processor Device)
[0.229647] ACPI: Added _OSI(3.0 _SCP Extensions)
[0.229648] ACPI: Added _OSI(Processor Aggregator Device)
[0.230954] ACPI: EC: Look up EC in DSDT
[0.235568] [Firmware Bug]: ACPI: BIOS _OSI(Linux) query ignored
[0.238017] ACPI: SSDT cf5d8a98 00303 (v01 PmRef ApIst 00003000 INTL 20090903)
[0.238414] ACPI: Dynamic OEM Table Load:
[0.238417] ACPI: SSDT (null) 00303 (v01 PmRef ApIst 00003000 INTL 20090903)
[0.238994] ACPI: Interpreter enabled
[0.239001] ACPI: (supports S0 S3 S4 S5)
[0.239021] ACPI: Using IOAPIC for interrupt routing
[0.239039] PCI: MMCONFIG for domain 0000 [bus 00-3f] at [mem 0xf8000000-0xfbffffff]
(base 0xf8000000)
[0.239157] ACPI Error: Invalid/unsupported resource descriptor: Type 0x00 (20120320/utresrc-
650)
[0.239429] PCI: MMCONFIG at [mem 0xf8000000-0xfbffffff] reserved in ACPI motherboard
resources
[0.239430] PCI: Using MMCONFIG for extended config space
[0.243864] ACPI: No dock devices found.
[0.243869] PCI: Using host bridge windows from ACPI; if necessary, use "pci=nocrs" and report
a bug
[0.244199] _SB_.PCI0:_OSC invalid UUID
[0.244201] _OSC request data:1 8 0
[0.244205] ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-3e])
[0.244769] pci_root PNP0A08:00: host bridge window [io 0x0000-0x0cf7]
[0.244771] pci_root PNP0A08:00: host bridge window [io 0xd00-0xffff]
[0.244772] pci_root PNP0A08:00: host bridge window [mem 0x000a0000-0x000bffff]
[0.244775] pci_root PNP0A08:00: host bridge window [mem 0xd0000000-0xfeafffff]
[0.244799] PCI host bridge to bus 0000:00
[0.244801] pci_bus 0000:00: root bus resource [io 0x0000-0x0cf7]
[0.244803] pci_bus 0000:00: root bus resource [io 0xd00-0xffff]
[0.244805] pci_bus 0000:00: root bus resource [mem 0x000a0000-0x000bffff]
[0.244806] pci_bus 0000:00: root bus resource [mem 0xd0000000-0xfeafffff]
[0.244815] pci 0000:00:00.0: [8086:0100] type 00 class 0x060000
[0.244844] pci 0000:00:01.0: [8086:0101] type 01 class 0x060400
[0.244867] pci 0000:00:01.0: PME# supported from D0 D3hot D3cold
[0.244910] pci 0000:00:16.0: [8086:1c3a] type 00 class 0x078000
[0.244934] pci 0000:00:16.0: reg 10: [mem 0xd0d70000-0xd0d7000f 64bit]
[0.244996] pci 0000:00:16.0: PME# supported from D0 D3hot D3cold
[0.245020] pci 0000:00:16.3: [8086:1c3d] type 00 class 0x070002
[0.245038] pci 0000:00:16.3: reg 10: [io 0x4080-0x4087]
[0.245048] pci 0000:00:16.3: reg 14: [mem 0xd0d50000-0xd0d50fff]
[0.245134] pci 0000:00:1a.0: [8086:1c2d] type 00 class 0x0c0320
[0.245155] pci 0000:00:1a.0: reg 10: [mem 0xd0d40000-0xd0d403ff]
[0.245228] pci 0000:00:1a.0: PME# supported from D0 D3hot D3cold
[0.245252] pci 0000:00:1c.0: [8086:1c10] type 01 class 0x060400
[0.245313] pci 0000:00:1c.0: PME# supported from D0 D3hot D3cold

[0.245339] pci 0000:00:1c.2: [8086:1c14] type 01 class 0x060400
[0.245400] pci 0000:00:1c.2: PME# supported from D0 D3hot D3cold
[0.245432] pci 0000:00:1d.0: [8086:1c26] type 00 class 0x0c0320
[0.245453] pci 0000:00:1d.0: reg 10: [mem 0xd0d30000-0xd0d303ff]
[0.245525] pci 0000:00:1d.0: PME# supported from D0 D3hot D3cold
[0.245546] pci 0000:00:1e.0: [8086:244e] type 01 class 0x060401
[0.245602] pci 0000:00:1f.0: [8086:1c4c] type 00 class 0x060100
[0.245714] pci 0000:00:1f.2: [8086:1c02] type 00 class 0x010601
[0.245732] pci 0000:00:1f.2: reg 10: [io 0x4070-0x4077]
[0.245739] pci 0000:00:1f.2: reg 14: [io 0x4060-0x4063]
[0.245747] pci 0000:00:1f.2: reg 18: [io 0x4050-0x4057]
[0.245755] pci 0000:00:1f.2: reg 1c: [io 0x4040-0x4043]
[0.245763] pci 0000:00:1f.2: reg 20: [io 0x4020-0x403f]
[0.245771] pci 0000:00:1f.2: reg 24: [mem 0xd0d20000-0xd0d207ff]
[0.245802] pci 0000:00:1f.2: PME# supported from D3hot
[0.245819] pci 0000:00:1f.3: [8086:1c22] type 00 class 0x0c0500
[0.245834] pci 0000:00:1f.3: reg 10: [mem 0xd0d10000-0xd0d100ff 64bit]
[0.245855] pci 0000:00:1f.3: reg 20: [io 0x4000-0x401f]
[0.245907] pci 0000:01:00.0: [1002:68f9] type 00 class 0x030000
[0.245919] pci 0000:01:00.0: reg 10: [mem 0xe0000000-0xffffffff 64bit pref]
[0.245929] pci 0000:01:00.0: reg 18: [mem 0xd0c20000-0xd0c3ffff 64bit]
[0.245936] pci 0000:01:00.0: reg 20: [io 0x3000-0x30ff]
[0.245948] pci 0000:01:00.0: reg 30: [mem 0xd0c00000-0xd0c1ffff pref]
[0.245965] pci 0000:01:00.0: supports D1 D2
[0.254106] pci 0000:00:01.0: PCI bridge to [bus 01-01]
[0.254109] pci 0000:00:01.0: bridge window [io 0x3000-0x3fff]
[0.254111] pci 0000:00:01.0: bridge window [mem 0xd0c00000-0xd0cfffff]
[0.254114] pci 0000:00:01.0: bridge window [mem 0xe0000000-0xffffffff 64bit pref]
[0.254158] pci 0000:00:1c.0: PCI bridge to [bus 02-02]
[0.254255] pci 0000:03:00.0: [1033:0194] type 00 class 0x0c0330
[0.254301] pci 0000:03:00.0: reg 10: [mem 0xd0100000-0xd0101fff 64bit]
[0.254488] pci 0000:03:00.0: PME# supported from D0 D3hot D3cold
[0.262117] pci 0000:00:1c.2: PCI bridge to [bus 03-03]
[0.262121] pci 0000:00:1c.2: bridge window [io 0x2000-0x2fff]
[0.262125] pci 0000:00:1c.2: bridge window [mem 0xd0100000-0xd0afffff]
[0.262130] pci 0000:00:1c.2: bridge window [mem 0xf0000000-0xf09fffff 64bit pref]
[0.262161] pci 0000:04:02.0: [2718:5125] type 00 class 0x110000
[0.262175] pci 0000:04:02.0: reg 10: [mem 0xd0b00000-0xd0b0ffff]
[0.262264] pci 0000:00:1e.0: PCI bridge to [bus 04-04] (subtractive decode)
[0.262270] pci 0000:00:1e.0: bridge window [mem 0xd0b00000-0xd0bfffff]
[0.262276] pci 0000:00:1e.0: bridge window [io 0x0000-0x0cf7] (subtractive decode)
[0.262278] pci 0000:00:1e.0: bridge window [io 0x0d00-0xffff] (subtractive decode)
[0.262279] pci 0000:00:1e.0: bridge window [mem 0x000a0000-0x000bffff] (subtractive decode)
[0.262282] pci 0000:00:1e.0: bridge window [mem 0xd0000000-0xfeafffff] (subtractive decode)
[0.262299] pci_bus 0000:00: on NUMA node 0
[0.262301] ACPI: PCI Interrupt Routing Table [_SB_.PCI0._PRT]
[0.262524] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.RP01._PRT]
[0.262564] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.RP03._PRT]
[0.262613] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PEG0._PRT]
[0.262658] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.POP1._PRT]
[0.262803] _SB_.PCI0:_OSC invalid UUID

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[ 0.262804] _OSC request data:1 f 0
[ 0.262808] pci0000:00: Unable to request _OSC control (_OSC support mask: 0x0f)
[ 0.265865] ACPI: PCI Interrupt Link [LNKA] (IRQs 1 3 4 5 6 7 10 12 14 15) *11
[ 0.265910] ACPI: PCI Interrupt Link [LNKB] (IRQs 1 3 4 5 6 7 11 12 14 15) *10
[ 0.265954] ACPI: PCI Interrupt Link [LNKC] (IRQs 1 3 4 *5 6 7 10 12 14 15)
[ 0.265997] ACPI: PCI Interrupt Link [LNKD] (IRQs 1 3 4 5 6 7 11 12 14 15) *0, disabled.
[ 0.266041] ACPI: PCI Interrupt Link [LNKE] (IRQs 1 3 4 5 6 7 10 12 14 15) *0, disabled.
[ 0.266085] ACPI: PCI Interrupt Link [LNKF] (IRQs 1 3 4 5 6 7 11 12 14 15) *0, disabled.
[ 0.266132] ACPI: PCI Interrupt Link [LNKG] (IRQs 1 3 4 5 6 7 10 12 14 15) *0, disabled.
[ 0.266175] ACPI: PCI Interrupt Link [LNKH] (IRQs 1 3 4 5 6 7 11 12 14 15) *0, disabled.
[ 0.266238] vgaarb: device added:
PCI:0000:01:00.0,decodes=io+mem,owns=io+mem,locks=none
[ 0.266240] vgaarb: loaded
[ 0.266242] vgaarb: bridge control possible 0000:01:00.0
[ 0.266260] PCI: Using ACPI for IRQ routing
[ 0.266262] PCI: pci_cache_line_size set to 64 bytes
[ 0.266326] reserve RAM buffer: 000000000009ac00 - 000000000009ffff
[ 0.266327] reserve RAM buffer: 00000000cf1f7000 - 00000000cfffffff
[ 0.266329] reserve RAM buffer: 00000000cf5b7000 - 00000000cfffffff
[ 0.266331] reserve RAM buffer: 00000000cf800000 - 00000000cfffffff
[ 0.266425] hpet0: at MMIO 0xfed00000, IRQs 2, 8, 0, 0, 0, 0, 0, 0
[ 0.266431] hpet0: 8 comparators, 64-bit 14.318180 MHz counter
[ 0.268444] Switching to clocksource hpet
[ 0.268490] pnp: PnP ACPI init
[ 0.268498] ACPI: bus type pnp registered
[ 0.268798] pnp 00:00: [bus 00-3e]
[ 0.268800] pnp 00:00: [io 0x0000-0x0cf7 window]
[ 0.268801] pnp 00:00: [io 0x0cf8-0x0cff]
[ 0.268804] pnp 00:00: [io 0x0d00-0xffff window]
[ 0.268805] pnp 00:00: [mem 0x000a0000-0x000bffff window]
[ 0.268807] pnp 00:00: [mem 0x000c0000-0x000c3fff window]
[ 0.268809] pnp 00:00: [mem 0x000c4000-0x000c7fff window]
[ 0.268810] pnp 00:00: [mem 0x000c8000-0x000cbfff window]
[ 0.268812] pnp 00:00: [mem 0x000cc000-0x000cffff window]
[ 0.268814] pnp 00:00: [mem 0x000d0000-0x000d3fff window]
[ 0.268815] pnp 00:00: [mem 0x000d4000-0x000d7fff window]
[ 0.268817] pnp 00:00: [mem 0x000d8000-0x000dbfff window]
[ 0.268819] pnp 00:00: [mem 0x000dc000-0x000dffff window]
[ 0.268820] pnp 00:00: [mem 0x000e0000-0x000e3fff window]
[ 0.268822] pnp 00:00: [mem 0x000e4000-0x000e7fff window]
[ 0.268823] pnp 00:00: [mem 0x000e8000-0x000ebfff window]
[ 0.268825] pnp 00:00: [mem 0x000ec000-0x000effff window]
[ 0.268827] pnp 00:00: [mem 0x000f0000-0x000fffff window]
[ 0.268828] pnp 00:00: [mem 0xd0000000-0xfeffffff window]
[ 0.268861] pnp 00:00: Plug and Play ACPI device, IDs PNP0a08 PNP0a03 (active)
[ 0.268885] pnp 00:01: [io 0x0000-0x001f]
[ 0.268887] pnp 00:01: [io 0x0081-0x0091]
[ 0.268888] pnp 00:01: [io 0x0093-0x009f]
[ 0.268890] pnp 00:01: [io 0x00c0-0x00df]
[ 0.268892] pnp 00:01: [dma 4]
[ 0.268909] pnp 00:01: Plug and Play ACPI device, IDs PNP0200 (active)
[ 0.268916] pnp 00:02: [mem 0xff000000-0xffffffff]
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[0.268933] pnp 00:02: Plug and Play ACPI device, IDs INT0800 (active)
[0.268993] pnp 00:03: [mem 0xfed00000-0xfed003ff]
[0.269011] pnp 00:03: Plug and Play ACPI device, IDs PNP0103 (active)
[0.269019] pnp 00:04: [io 0x00f0]
[0.269026] pnp 00:04: [irq 13]
[0.269044] pnp 00:04: Plug and Play ACPI device, IDs PNP0c04 (active)
[0.269062] pnp 00:05: [io 0x002e-0x002f]
[0.269063] pnp 00:05: [io 0x004e-0x004f]
[0.269065] pnp 00:05: [io 0x0061]
[0.269066] pnp 00:05: [io 0x0063]
[0.269068] pnp 00:05: [io 0x0065]
[0.269069] pnp 00:05: [io 0x0067]
[0.269070] pnp 00:05: [io 0x0070]
[0.269072] pnp 00:05: [io 0x0080]
[0.269073] pnp 00:05: [io 0x0092]
[0.269074] pnp 00:05: [io 0x00b2-0x00b3]
[0.269076] pnp 00:05: [io 0x0680-0x069f]
[0.269077] pnp 00:05: [io 0xffff]
[0.269079] pnp 00:05: [io 0xffff]
[0.269080] pnp 00:05: [io 0xffff]
[0.269081] pnp 00:05: [io 0x0400-0x0453]
[0.269083] pnp 00:05: [io 0x0458-0x047f]
[0.269084] pnp 00:05: [io 0x0500-0x057f]
[0.269086] pnp 00:05: [io 0x164e-0x164f]
[0.269117] system 00:05: [io 0x0680-0x069f] has been reserved
[0.269119] system 00:05: [io 0xffff] has been reserved
[0.269120] system 00:05: [io 0xffff] has been reserved
[0.269122] system 00:05: [io 0xffff] has been reserved
[0.269124] system 00:05: [io 0x0400-0x0453] has been reserved
[0.269126] system 00:05: [io 0x0458-0x047f] has been reserved
[0.269128] system 00:05: [io 0x0500-0x057f] has been reserved
[0.269130] system 00:05: [io 0x164e-0x164f] has been reserved
[0.269132] system 00:05: Plug and Play ACPI device, IDs PNP0c02 (active)
[0.269139] pnp 00:06: [io 0x0070-0x0077]
[0.269143] pnp 00:06: [irq 8]
[0.269161] pnp 00:06: Plug and Play ACPI device, IDs PNP0b00 (active)
[0.269184] pnp 00:07: [io 0x0454-0x0457]
[0.269212] system 00:07: [io 0x0454-0x0457] has been reserved
[0.269214] system 00:07: Plug and Play ACPI device, IDs INT3f0d PNP0c02 (active)
[0.269273] pnp 00:08: [io 0x0060]
[0.269275] pnp 00:08: [io 0x0064]
[0.269279] pnp 00:08: [irq 12]
[0.269305] pnp 00:08: Plug and Play ACPI device, IDs PNP0f13 (active)
[0.269480] pnp 00:09: [io 0x03f8-0x03ff]
[0.269484] pnp 00:09: [irq 4]
[0.269521] pnp 00:09: Plug and Play ACPI device, IDs PNP0501 (active)
[0.269697] pnp 00:0a: [mem 0xfed1c000-0xfed1ffff]
[0.269699] pnp 00:0a: [mem 0xfed10000-0xfed17fff]
[0.269700] pnp 00:0a: [mem 0xfed18000-0xfed18fff]
[0.269702] pnp 00:0a: [mem 0xfed19000-0xfed19fff]
[0.269703] pnp 00:0a: [mem 0xf8000000-0xfbffffff]
[0.269705] pnp 00:0a: [mem 0xfed20000-0xfed3ffff]

[0.269706] pnp 00:0a: [mem 0xfed90000-0xfed93fff]
[0.269708] pnp 00:0a: [mem 0xfed45000-0xfed8ffff]
[0.269709] pnp 00:0a: [mem 0xff000000-0xffffffff]
[0.269711] pnp 00:0a: [mem 0xfe000000-0xfeffffff]
[0.269712] pnp 00:0a: [mem 0x00000000-0xffffffff disabled]
[0.269714] pnp 00:0a: [mem 0x00000000-0xffffffff disabled]
[0.269755] system 00:0a: [mem 0xfed1c000-0xfed1ffff] has been reserved
[0.269757] system 00:0a: [mem 0xfed10000-0xfed17fff] has been reserved
[0.269759] system 00:0a: [mem 0xfed18000-0xfed18fff] has been reserved
[0.269761] system 00:0a: [mem 0xfed19000-0xfed19fff] has been reserved
[0.269763] system 00:0a: [mem 0xf8000000-0xfbffffff] has been reserved
[0.269765] system 00:0a: [mem 0xfed20000-0xfed3ffff] has been reserved
[0.269767] system 00:0a: [mem 0xfed90000-0xfed93fff] has been reserved
[0.269769] system 00:0a: [mem 0xfed45000-0xfed8ffff] has been reserved
[0.269771] system 00:0a: [mem 0xff000000-0xffffffff] could not be reserved
[0.269773] system 00:0a: [mem 0xfe000000-0xfeffffff] has been reserved
[0.269775] system 00:0a: Plug and Play ACPI device, IDs PNP0c02 (active)
[0.269793] ACPI Error: Invalid/unsupported resource descriptor: Type 0x00 (20120320/utresrc-650)
[0.269797] pnp 00:0b: can't evaluate _CRS: 12311
[0.269893] system 00:0b: Plug and Play ACPI device, IDs PNP0c01 (active)
[0.270055] pnp: PnP ACPI: found 12 devices
[0.270056] ACPI: ACPI bus type pnp unregistered
[0.270058] PnPBIOS: Disabled by ACPI PNP
[0.306164] pci 0000:00:01.0: PCI bridge to [bus 01-01]
[0.306167] pci 0000:00:01.0: bridge window [io 0x3000-0x3fff]
[0.306170] pci 0000:00:01.0: bridge window [mem 0xd0c00000-0xd0cfffff]
[0.306172] pci 0000:00:01.0: bridge window [mem 0xe0000000-0xefffffff 64bit pref]
[0.306176] pci 0000:00:1c.0: PCI bridge to [bus 02-02]
[0.306187] pci 0000:00:1c.2: PCI bridge to [bus 03-03]
[0.306190] pci 0000:00:1c.2: bridge window [io 0x2000-0x2fff]
[0.306195] pci 0000:00:1c.2: bridge window [mem 0xd0100000-0xd0afffff]
[0.306199] pci 0000:00:1c.2: bridge window [mem 0xf0000000-0xf09fffff 64bit pref]
[0.306205] pci 0000:00:1e.0: PCI bridge to [bus 04-04]
[0.306210] pci 0000:00:1e.0: bridge window [mem 0xd0b00000-0xd0bfffff]
[0.306245] pci 0000:00:1e.0: setting latency timer to 64
[0.306249] pci_bus 0000:00: resource 4 [io 0x0000-0x0cf7]
[0.306250] pci_bus 0000:00: resource 5 [io 0x0d00-0xffff]
[0.306252] pci_bus 0000:00: resource 6 [mem 0x000a0000-0x000bffff]
[0.306254] pci_bus 0000:00: resource 7 [mem 0xd0000000-0xfeafffff]
[0.306255] pci_bus 0000:01: resource 0 [io 0x3000-0x3fff]
[0.306257] pci_bus 0000:01: resource 1 [mem 0xd0c00000-0xd0cfffff]
[0.306259] pci_bus 0000:01: resource 2 [mem 0xe0000000-0xefffffff 64bit pref]
[0.306260] pci_bus 0000:03: resource 0 [io 0x2000-0x2fff]
[0.306262] pci_bus 0000:03: resource 1 [mem 0xd0100000-0xd0afffff]
[0.306264] pci_bus 0000:03: resource 2 [mem 0xf0000000-0xf09fffff 64bit pref]
[0.306265] pci_bus 0000:04: resource 1 [mem 0xd0b00000-0xd0bfffff]
[0.306267] pci_bus 0000:04: resource 4 [io 0x0000-0x0cf7]
[0.306269] pci_bus 0000:04: resource 5 [io 0x0d00-0xffff]
[0.306270] pci_bus 0000:04: resource 6 [mem 0x000a0000-0x000bffff]
[0.306272] pci_bus 0000:04: resource 7 [mem 0xd0000000-0xfeafffff]
[0.306335] NET: Registered protocol family 2

[0.306377] IP route cache hash table entries: 32768 (order: 5, 131072 bytes)
[0.306494] TCP established hash table entries: 131072 (order: 8, 1048576 bytes)
[0.306651] TCP bind hash table entries: 65536 (order: 7, 524288 bytes)
[0.306720] TCP: Hash tables configured (established 131072 bind 65536)
[0.306721] TCP: reno registered
[0.306723] UDP hash table entries: 512 (order: 2, 16384 bytes)
[0.306727] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[0.306789] NET: Registered protocol family 1
[0.306864] pci 0000:01:00.0: Boot video device
[0.306921] PCI: CLS 64 bytes, default 64
[0.306950] Unpacking initramfs...
[0.512091] Freeing initrd memory: 13720k freed
[0.513547] Simple Boot Flag at 0xf3 set to 0x1
[0.513927] audit: initializing netlink socket (disabled)
[0.513941] type=2000 audit(1472262017.404:1): initialized
[0.523242] highmem bounce pool size: 64 pages
[0.523246] HugeTLB registered 4 MB page size, pre-allocated 0 pages
[0.523405] VFS: Disk quotas dquot_6.5.2
[0.523426] Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[0.523479] msgmni has been set to 1696
[0.523599] alg: No test for stdrng (krng)
[0.523620] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 253)
[0.523622] io scheduler noop registered
[0.523624] io scheduler deadline registered
[0.523642] io scheduler cfq registered (default)
[0.523804] pci_hotplug: PCI Hot Plug PCI Core version: 0.5
[0.523816] pciehp: PCI Express Hot Plug Controller Driver version: 0.4
[0.523817] acpiphp: ACPI Hot Plug PCI Controller Driver version: 0.5
[0.524111] GHES: HEST is not enabled!
[0.524118] isapnp: Scanning for PnP cards...
[0.877975] isapnp: No Plug & Play device found
[0.878006] Serial: 8250/16550 driver, 4 ports, IRQ sharing enabled
[0.898421] serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[0.919053] 00:09: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[0.939344] 0000:00:16.3: ttyS1 at I/O 0x4080 (irq = 17) is a 16550A
[0.939485] Linux agpgart interface v0.103
[0.939639] i8042: PNP: PS/2 Controller [PNP0f13:MOU] at 0x60,0x64 irq 12
[0.939641] i8042: PNP: PS/2 controller doesn't have KBD irq; using default 1
[0.942622] serio: i8042 KBD port at 0x60,0x64 irq 1
[0.942642] serio: i8042 AUX port at 0x60,0x64 irq 12
[0.942712] mousedev: PS/2 mouse device common for all mice
[0.942744] rtc_cmos 00:06: RTC can wake from S4
[0.942856] rtc_cmos 00:06: rtc core: registered rtc_cmos as rtc0
[0.942883] rtc0: alarms up to one year, y3k, 242 bytes nvram, hpet irq5
[0.942965] TCP: cubic registered
[0.943019] NET: Registered protocol family 10
[0.943173] Mobile IPv6
[0.943175] NET: Registered protocol family 17
[0.943178] Registering the dns_resolver key type
[0.943210] Using IPI No-Shortcut mode
[0.943278] PM: Hibernation image not present or could not be loaded.
[0.943284] registered taskstats version 1

[0.943586] rtc_cmos 00:06: setting system clock to 2016-08-27 01:40:18 UTC (1472262018)
[0.943662] Freeing unused kernel memory: 416k freed
[0.943753] Write protecting the kernel text: 3496k
[0.943771] Write protecting the kernel read-only data: 984k
[0.951275] udevd[58]: starting version 175
[0.960828] usbcore: registered new interface driver usbfs
[0.960843] usbcore: registered new interface driver hub
[0.963030] microcode: CPU0 sig=0x206a7, pf=0x2, revision=0x28
[0.963308] usbcore: registered new device driver usb
[0.963544] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[0.963590] ehci_hcd 0000:00:1a.0: setting latency timer to 64
[0.963594] ehci_hcd 0000:00:1a.0: EHCI Host Controller
[0.963611] ehci_hcd 0000:00:1a.0: new USB bus registered, assigned bus number 1
[0.963632] ehci_hcd 0000:00:1a.0: debug port 2
[0.967524] ehci_hcd 0000:00:1a.0: cache line size of 64 is not supported
[0.967543] ehci_hcd 0000:00:1a.0: irq 16, io mem 0xd0d40000
[0.977644] SCSI subsystem initialized
[0.978605] ehci_hcd 0000:00:1a.0: USB 2.0 started, EHCI 1.00
[0.978625] usb usb1: New USB device found, idVendor=1d6b, idProduct=0002
[0.978627] usb usb1: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.978629] usb usb1: Product: EHCI Host Controller
[0.978630] usb usb1: Manufacturer: Linux 3.4-9-rtai-686-pae ehci_hcd
[0.978632] usb usb1: SerialNumber: 0000:00:1a.0
[0.978911] hub 1-0:1.0: USB hub found
[0.978914] hub 1-0:1.0: 3 ports detected
[0.978997] ehci_hcd 0000:00:1d.0: setting latency timer to 64
[0.979000] ehci_hcd 0000:00:1d.0: EHCI Host Controller
[0.979006] ehci_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 2
[0.979028] ehci_hcd 0000:00:1d.0: debug port 2
[0.979979] xhci_hcd 0000:03:00.0: xHCI Host Controller
[0.979986] xhci_hcd 0000:03:00.0: new USB bus registered, assigned bus number 3
[0.980319] usb usb3: New USB device found, idVendor=1d6b, idProduct=0002
[0.980321] usb usb3: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.980323] usb usb3: Product: xHCI Host Controller
[0.980324] usb usb3: Manufacturer: Linux 3.4-9-rtai-686-pae xhci_hcd
[0.980326] usb usb3: SerialNumber: 0000:03:00.0
[0.980561] xHCI xhci_add_endpoint called for root hub
[0.980563] xHCI xhci_check_bandwidth called for root hub
[0.980589] hub 3-0:1.0: USB hub found
[0.980601] hub 3-0:1.0: 2 ports detected
[0.980663] xhci_hcd 0000:03:00.0: xHCI Host Controller
[0.980667] xhci_hcd 0000:03:00.0: new USB bus registered, assigned bus number 4
[0.982377] libata version 3.00 loaded.
[0.982903] ehci_hcd 0000:00:1d.0: cache line size of 64 is not supported
[0.982919] ehci_hcd 0000:00:1d.0: irq 17, io mem 0xd0d30000
[0.983516] usb usb4: New USB device found, idVendor=1d6b, idProduct=0003
[0.983519] usb usb4: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.983520] usb usb4: Product: xHCI Host Controller
[0.983522] usb usb4: Manufacturer: Linux 3.4-9-rtai-686-pae xhci_hcd
[0.983523] usb usb4: SerialNumber: 0000:03:00.0
[0.983579] xHCI xhci_add_endpoint called for root hub
[0.983580] xHCI xhci_check_bandwidth called for root hub

[0.983601] hub 4-0:1.0: USB hub found
[0.983612] hub 4-0:1.0: 2 ports detected
[0.986204] microcode: CPU0 updated to revision 0x29, date = 2013-06-12
[0.986211] microcode: CPU1 sig=0x206a7, pf=0x2, revision=0x28
[0.987856] microcode: CPU1 updated to revision 0x29, date = 2013-06-12
[0.987866] microcode: CPU2 sig=0x206a7, pf=0x2, revision=0x28
[0.989546] microcode: CPU2 updated to revision 0x29, date = 2013-06-12
[0.989556] microcode: CPU3 sig=0x206a7, pf=0x2, revision=0x28
[0.991180] microcode: CPU3 updated to revision 0x29, date = 2013-06-12
[0.991212] microcode: Microcode Update Driver: v2.00 <tigran@aivazian.fsnet.co.uk>, Peter Oruba
[0.992310] ehci_hcd 0000:00:1d.0: USB 2.0 started, EHCI 1.00
[0.992325] usb usb2: New USB device found, idVendor=1d6b, idProduct=0002
[0.992327] usb usb2: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.992329] usb usb2: Product: EHCI Host Controller
[0.992331] usb usb2: Manufacturer: Linux 3.4-9-rtai-686-pae ehci_hcd
[0.992332] usb usb2: SerialNumber: 0000:00:1d.0
[0.992417] hub 2-0:1.0: USB hub found
[0.992422] hub 2-0:1.0: 3 ports detected
[0.992479] ahci 0000:00:1f.2: version 3.0
[1.008305] ahci 0000:00:1f.2: AHCI 0001.0300 32 slots 6 ports 6 Gbps 0x5 impl SATA mode
[1.008308] ahci 0000:00:1f.2: flags: 64bit ncq snff pm led clo pio slum part ems apst
[1.008313] ahci 0000:00:1f.2: setting latency timer to 64
[1.016660] scsi0 : ahci
[1.016741] scsi1 : ahci
[1.016795] scsi2 : ahci
[1.016848] scsi3 : ahci
[1.016900] scsi4 : ahci
[1.016953] scsi5 : ahci
[1.016987] ata1: SATA max UDMA/133 abar m2048@0xd0d20000 port 0xd0d20100 irq 18
[1.016989] ata2: DUMMY
[1.016992] ata3: SATA max UDMA/133 abar m2048@0xd0d20000 port 0xd0d20200 irq 18
[1.016993] ata4: DUMMY
[1.016994] ata5: DUMMY
[1.016995] ata6: DUMMY
[1.288237] usb 1-1: new high-speed USB device number 2 using ehci_hcd
[1.336228] ata1: SATA link up 6.0 Gbps (SStatus 133 SControl 300)
[1.336246] ata3: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
[1.337022] ata1.00: ATA-8: WDC WD2500AAKX-753CA1, 17.01H17, max UDMA/133
[1.337024] ata1.00: 488397168 sectors, multi 16: LBA48 NCQ (depth 31/32), AA
[1.337916] ata1.00: configured for UDMA/133
[1.338005] scsi 0:0:0:0: Direct-Access ATA WDC WD2500AAKX-7 17.0 PQ: 0 ANSI: 5
[1.338655] ata3.00: ATAPI: PLDS DVD+/-RW DH-16ABS, PD11, max UDMA/100
[1.339452] ata3.00: configured for UDMA/100
[1.341355] scsi 2:0:0:0: CD-ROM PLDS DVD+/-RW DH-16ABS PD11 PQ: 0 ANSI: 5
[1.343779] sd 0:0:0:0: [sda] 488397168 512-byte logical blocks: (250 GB/232 GiB)
[1.343810] sd 0:0:0:0: [sda] Write Protect is off
[1.343812] sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
[1.343824] sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
[1.346934] sr0: scsi3-mmc drive: 48x/48x writer dvd-ram cd/rw xa/form2 cdda tray
[1.346936] cdrom: Uniform CD-ROM driver Revision: 3.20

[1.347019] sr 2:0:0:0: Attached scsi CD-ROM sr0
[1.380801] sda: sda1 sda2 < sda5 >
[1.380998] sd 0:0:0:0: [sda] Attached SCSI disk
[1.382054] sd 0:0:0:0: Attached scsi generic sg0 type 0
[1.382090] sr 2:0:0:0: Attached scsi generic sg1 type 5
[1.420612] usb 1-1: New USB device found, idVendor=8087, idProduct=0024
[1.420614] usb 1-1: New USB device strings: Mfr=0, Product=0, SerialNumber=0
[1.420758] hub 1-1:1.0: USB hub found
[1.420860] hub 1-1:1.0: 6 ports detected
[1.512187] Refined TSC clocksource calibration: 3092.972 MHz.
[1.512191] Switching to clocksource tsc
[1.532179] usb 2-1: new high-speed USB device number 2 using ehci_hcd
[1.664554] usb 2-1: New USB device found, idVendor=8087, idProduct=0024
[1.664556] usb 2-1: New USB device strings: Mfr=0, Product=0, SerialNumber=0
[1.664697] hub 2-1:1.0: USB hub found
[1.664803] hub 2-1:1.0: 8 ports detected
[1.936246] usb 2-1.3: new full-speed USB device number 3 using ehci_hcd
[2.029096] usb 2-1.3: New USB device found, idVendor=413c, idProduct=1005
[2.029098] usb 2-1.3: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[2.029100] usb 2-1.3: Product: Dell Multimedia Pro Keyboard Hub
[2.029102] usb 2-1.3: Manufacturer: Dell
[2.029857] hub 2-1.3:1.0: USB hub found
[2.029971] hub 2-1.3:1.0: 3 ports detected
[2.100208] usb 2-1.6: new low-speed USB device number 4 using ehci_hcd
[2.197684] usb 2-1.6: New USB device found, idVendor=046d, idProduct=c063
[2.197686] usb 2-1.6: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[2.197687] usb 2-1.6: Product: DELL USB Laser Mouse
[2.197689] usb 2-1.6: Manufacturer: DELL
[2.203527] input: DELL DELL USB Laser Mouse as /devices/pci0000:00/0000:00:1d.0/usb2/2-1/2-1.6/2-1.6:1.0/input/input0
[2.203582] generic-usb 0003:046D:C063.0001: input,hidraw0: USB HID v1.10 Mouse [DELL DELL USB Laser Mouse] on usb-0000:00:1d.0-1.6/input0
[2.203595] usbcore: registered new interface driver usbhid
[2.203596] usbhid: USB HID core driver
[2.300161] usb 2-1.3.1: new low-speed USB device number 5 using ehci_hcd
[2.398012] usb 2-1.3.1: New USB device found, idVendor=413c, idProduct=2011
[2.398014] usb 2-1.3.1: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[2.398016] usb 2-1.3.1: Product: Dell Multimedia Pro Keyboard
[2.398017] usb 2-1.3.1: Manufacturer: Dell
[2.403734] input: Dell Dell Multimedia Pro Keyboard as /devices/pci0000:00/0000:00:1d.0/usb2/2-1/2-1.3/2-1.3.1/2-1.3.1:1.0/input/input1
[2.403776] generic-usb 0003:413C:2011.0002: input,hidraw1: USB HID v1.10 Keyboard [Dell Dell Multimedia Pro Keyboard] on usb-0000:00:1d.0-1.3.1/input0
[2.411042] input: Dell Dell Multimedia Pro Keyboard as /devices/pci0000:00/0000:00:1d.0/usb2/2-1/2-1.3/2-1.3.1/2-1.3.1:1.1/input/input2
[2.411075] generic-usb 0003:413C:2011.0003: input,hidraw2: USB HID v1.10 Device [Dell Dell Multimedia Pro Keyboard] on usb-0000:00:1d.0-1.3.1/input1
[6.754638] PM: Starting manual resume from disk
[6.754640] PM: Hibernation image partition 8:5 present
[6.754642] PM: Looking for hibernation image.
[6.754770] PM: Image not found (code -22)
[6.754772] PM: Hibernation image not present or could not be loaded.

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[ 6.795722] EXT4-fs (sda1): mounted filesystem with ordered data mode. Opts: (null)
[ 8.745450] udevd[410]: starting version 175
[ 8.968635] input: Power Button as
/devices/LNXSYSTM:00/LNXPWRBN:00/input/input3
[ 8.968640] ACPI: Power Button [PWRB]
[ 8.968675] input: Power Button as /devices/LNXSYSTM:00/LNXPWRBN:00/input/input4
[ 8.968678] ACPI: Power Button [PWRB]
[ 9.313176] dcdbas dcdbas: Dell Systems Management Base Driver (version 5.6.0-3.2)
[ 9.327124] iTCO_vendor_support: vendor-support=0
[ 9.331235] iTCO_wdt: Intel TCO WatchDog Timer Driver v1.07
[ 9.331286] iTCO_wdt: Found a Cougar Point TCO device (Version=2, TCOBASE=0x0460)
[ 9.331333] iTCO_wdt: initialized. heartbeat=30 sec (nowayout=0)
[ 9.416722] ACPI Warning: 0x00004000-0x0000401f SystemIO conflicts with Region
\_SB_.PCI0.SBUS.SMBI 1 (20120320/utaddress-251)
[ 9.416728] ACPI: If an ACPI driver is available for this device, you should use it instead of the
native driver
[ 9.441150] [drm] Initialized drm 1.1.0 20060810
[ 9.480623] [drm] radeon kernel modesetting enabled.
[ 9.480766] [drm] initializing kernel modesetting (CEDAR 0x1002:0x68F9 0x1028:0x2126).
[ 9.480785] [drm] register mmio base: 0xD0C20000
[ 9.480786] [drm] register mmio size: 131072
[ 9.480836] ATOM BIOS: C09002
[ 9.480852] radeon 0000:01:00.0: VRAM: 512M 0x0000000000000000 - 0x000000001FFFFFFF
(512M used)
[ 9.480854] radeon 0000:01:00.0: GTT: 512M 0x0000000020000000 - 0x000000003FFFFFFF
[ 9.482678] [drm] Detected VRAM RAM=512M, BAR=256M
[ 9.482681] [drm] RAM width 64bits DDR
[ 9.482723] [TTM] Zone kernel: Available graphics memory: 434384 kiB
[ 9.482725] [TTM] Zone highmem: Available graphics memory: 1678268 kiB
[ 9.482726] [TTM] Initializing pool allocator
[ 9.482745] [drm] radeon: 512M of VRAM memory ready
[ 9.482746] [drm] radeon: 512M of GTT memory ready.
[ 9.482758] [drm] GART: num cpu pages 131072, num gpu pages 131072
[ 9.482903] [drm] radeon: ib pool ready.
[ 9.482960] [drm] Loading CEDAR Microcode
[ 10.529759] [drm] PCIE GART of 512M enabled (table at 0x0000000000004000).
[ 10.529858] radeon 0000:01:00.0: WB enabled
[ 10.529861] [drm] fence driver on ring 0 use gpu addr 0x20000c00 and cpu addr 0xff968c00
[ 10.529864] [drm] Supports vblank timestamp caching Rev 1 (10.10.2010).
[ 10.529865] [drm] Driver supports precise vblank timestamp query.
[ 10.529882] [drm] radeon: irq initialized.
[ 10.546042] [drm] ring test on 0 succeeded in 1 usecs
[ 10.546130] [drm] ib test on ring 0 succeeded in 0 usecs
[ 10.546312] [drm] Radeon Display Connectors
[ 10.546314] [drm] Connector 0:
[ 10.546315] [drm]   DVI-I
[ 10.546316] [drm]   HPD2
[ 10.546318] [drm]   DDC: 0x6460 0x6460 0x6464 0x6464 0x6468 0x6468 0x646c 0x646c
[ 10.546319] [drm]   Encoders:
[ 10.546320] [drm]     DFP1: INTERNAL_UNIPHY1
[ 10.546321] [drm]     CRT2: INTERNAL_KLDSCP_DAC2
[ 10.546323] [drm] Connector 1:
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[10.546324] [drm] DVI-I
[10.546325] [drm] HPD4
[10.546326] [drm] DDC: 0x6450 0x6450 0x6454 0x6454 0x6458 0x6458 0x645c 0x645c
[10.546327] [drm] Encoders:
[10.546328] [drm] DFP2: INTERNAL_UNIPHY
[10.546329] [drm] CRT1: INTERNAL_KLDSCP_DAC1
[10.546360] [drm] Internal thermal controller with fan control
[10.546384] [drm] radeon: power management initialized
[10.592438] [drm] fb mappable at 0xE0142000
[10.592439] [drm] vram apper at 0xE0000000
[10.592440] [drm] size 5242880
[10.592441] [drm] fb depth is 24
[10.592442] [drm] pitch is 5120
[10.592484] fbcon: radeondrmfb (fb0) is primary device
[10.825780] Console: switching to colour frame buffer device 160x64
[10.828305] fb0: radeondrmfb frame buffer device
[10.828307] drm: registered panic notifier
[10.828311] [drm] Initialized radeon 2.16.0 20080528 for 0000:01:00.0 on minor 0
[11.592726] Adding 9920508k swap on /dev/sda5. Priority:-1 extents:1 across:9920508k
[11.600863] EXT4-fs (sda1): re-mounted. Opts: (null)
[11.808291] EXT4-fs (sda1): re-mounted. Opts: errors=remount-ro
[11.894058] loop: module loaded
[12.919111] RPC: Registered named UNIX socket transport module.
[12.919113] RPC: Registered udp transport module.
[12.919115] RPC: Registered tcp transport module.
[12.919116] RPC: Registered tcp NFSv4.1 backchannel transport module.
[12.970349] FS-Cache: Loaded
[12.989908] NFS: Registering the id_resolver key type
[12.989920] FS-Cache: Netfs 'nfs' registered for caching
[13.001218] Installing knfsd (copyright (C) 1996 okir@monad.swb.de).
[15.002328] input: ACPI Virtual Keyboard Device as /devices/virtual/input/input5
[16.900159] Bluetooth: Core ver 2.16
[16.900170] NET: Registered protocol family 31
[16.900171] Bluetooth: HCI device and connection manager initialized
[16.900173] Bluetooth: HCI socket layer initialized
[16.900174] Bluetooth: L2CAP socket layer initialized
[16.900177] Bluetooth: SCO socket layer initialized
[16.926400] Bluetooth: RFCOMM TTY layer initialized
[16.926403] Bluetooth: RFCOMM socket layer initialized
[16.926405] Bluetooth: RFCOMM ver 1.11
[17.409153] Bluetooth: BNEP (Ethernet Emulation) ver 1.3
[17.409156] Bluetooth: BNEP filters: protocol multicast
[18.441710] lp: driver loaded but no devices found
[19.063597] ppdev: user-space parallel port driver
[19.138668] parport0: PC-style at 0x378 (0x778) [PCSPP,TRISTATE]
[19.264357] parport0: irq 7 detected
[19.360315] lp0: using parport0 (polling).
[344.679375] I-pipe: head domain RTAI registered.
[344.679379] RTAI[hal]: compiled with gcc version 4.7.2 (Debian 4.7.2-5) .
[344.679423] RTAI[hal]: mounted (IPIPE-NO_THREADS, IMMEDIATE (INTERNAL IRQs DISPATCHED), ISOL_CPUS_MASK: 0).
[344.679425] SYSINFO: CPUs 4, LINUX APIC IRQ 2312, TIM_FREQ 6235350, CLK_FREQ

3093085000, CPU_FREQ 3093085000
[344.679427] RTAI_APIC_TIMER_IPI: RTAI DEFINED 2314, VECTOR 2314;
LINUX_APIC_TIMER_IPI: RTAI DEFINED 2312, VECTOR 2312
[344.679429] TIMER NAME: lapic; VARIOUSLY FOUND APIC FREQs: 6235350, 6235350,
2281000
[344.710057] RTAI[malloc]: global heap size = 2097152 bytes, <BSD>.
[344.710076] , <uses LINUX SYSCALLs>, kstacks pool size = 524288 bytes.
[344.710079] RTAI[sched]: hard timer type/freq = APIC/6235350(Hz); default timing: oneshot;
linear timed lists.
[344.710082] RTAI[sched]: Linux timer freq = 250 (Hz), TimeBase freq = 3093085000 hz.
[344.710083] RTAI[sched]: timer setup = 999 ns, resched latency = 2943 ns.
[344.716151] RTAI[math]: loaded.
[345.031813] hm2: loading Mesa HostMot2 driver version 0.15
[345.037521] hm2_pci: loading Mesa AnyIO HostMot2 driver version 0.7
[345.037546] hm2_pci: discovered 5i25 at 0000:04:02.0
[345.037742] hm2/hm2_5i25.0: Smart Serial Firmware Version 43
[345.093072] hm2/hm2_5i25.0: 34 I/O Pins used:
[345.093074] hm2/hm2_5i25.0: IO Pin 000 (P3-01): StepGen #0, pin Direction (Output)
[345.093076] hm2/hm2_5i25.0: IO Pin 001 (P3-14): StepGen #0, pin Step (Output)
[345.093078] hm2/hm2_5i25.0: IO Pin 002 (P3-02): StepGen #1, pin Direction (Output)
[345.093080] hm2/hm2_5i25.0: IO Pin 003 (P3-15): StepGen #1, pin Step (Output)
[345.093082] hm2/hm2_5i25.0: IO Pin 004 (P3-03): StepGen #2, pin Direction (Output)
[345.093083] hm2/hm2_5i25.0: IO Pin 005 (P3-16): StepGen #2, pin Step (Output)
[345.093085] hm2/hm2_5i25.0: IO Pin 006 (P3-04): IOPort
[345.093086] hm2/hm2_5i25.0: IO Pin 007 (P3-17): IOPort
[345.093088] hm2/hm2_5i25.0: IO Pin 008 (P3-05): IOPort
[345.093089] hm2/hm2_5i25.0: IO Pin 009 (P3-06): IOPort
[345.093091] hm2/hm2_5i25.0: IO Pin 010 (P3-07): IOPort
[345.093092] hm2/hm2_5i25.0: IO Pin 011 (P3-08): IOPort
[345.093093] hm2/hm2_5i25.0: IO Pin 012 (P3-09): IOPort
[345.093095] hm2/hm2_5i25.0: IO Pin 013 (P3-10): IOPort
[345.093096] hm2/hm2_5i25.0: IO Pin 014 (P3-11): IOPort
[345.093098] hm2/hm2_5i25.0: IO Pin 015 (P3-12): IOPort
[345.093099] hm2/hm2_5i25.0: IO Pin 016 (P3-13): IOPort
[345.093100] hm2/hm2_5i25.0: IO Pin 017 (P2-01): IOPort
[345.093102] hm2/hm2_5i25.0: IO Pin 018 (P2-14): IOPort
[345.093103] hm2/hm2_5i25.0: IO Pin 019 (P2-02): IOPort
[345.093105] hm2/hm2_5i25.0: IO Pin 020 (P2-15): IOPort
[345.093106] hm2/hm2_5i25.0: IO Pin 021 (P2-03): IOPort
[345.093108] hm2/hm2_5i25.0: IO Pin 022 (P2-16): IOPort
[345.093109] hm2/hm2_5i25.0: IO Pin 023 (P2-04): IOPort
[345.093110] hm2/hm2_5i25.0: IO Pin 024 (P2-17): IOPort
[345.093112] hm2/hm2_5i25.0: IO Pin 025 (P2-05): IOPort
[345.093113] hm2/hm2_5i25.0: IO Pin 026 (P2-06): IOPort
[345.093114] hm2/hm2_5i25.0: IO Pin 027 (P2-07): IOPort
[345.093116] hm2/hm2_5i25.0: IO Pin 028 (P2-08): IOPort
[345.093117] hm2/hm2_5i25.0: IO Pin 029 (P2-09): IOPort
[345.093119] hm2/hm2_5i25.0: IO Pin 030 (P2-10): IOPort
[345.093120] hm2/hm2_5i25.0: IO Pin 031 (P2-11): IOPort
[345.093121] hm2/hm2_5i25.0: IO Pin 032 (P2-12): IOPort
[345.093123] hm2/hm2_5i25.0: IO Pin 033 (P2-13): IOPort
[345.093156] hm2/hm2_5i25.0: registeredPrint file information:

RUN_IN_PLACE=no
LINUXCNC_DIR=
LINUXCNC_BIN_DIR=/usr/bin
LINUXCNC_TCL_DIR=/usr/lib/tcltk/linuxcnc
LINUXCNC_SCRIPT_DIR=
LINUXCNC_RT_LIB_DIR=/usr/realtime-3.4-9-rtai-686-pae/modules/linuxcnc
LINUXCNC_CONFIG_DIR=
LINUXCNC_LANG_DIR=/usr/share/linuxcnc/tcl/messages
INIVAR=inivar
HALCMD=halcmd
LINUXCNC_EMCSH=/usr/bin/wish8.5
LINUXCNC - 2.7.4
Machine configuration directory is '/home/saj2016/linuxcnc/configs/EMCO'
Machine configuration file is 'EMCO.ini'
INIFILE=/home/saj2016/linuxcnc/configs/EMCO/EMCO.ini
PARAMETER_FILE=linuxcnc.var
TASK=milltask
HALUI=halui
DISPLAY=axis
Starting LinuxCNC...
Starting LinuxCNC server program: linuxcncsvr
Loading Real Time OS, RTAPI, and HAL_LIB modules
Starting LinuxCNC IO program: io
Starting HAL User Interface program: halui
Found file(REL): ./EMCO.hal
Shutting down and cleaning up LinuxCNC...
Running HAL shutdown script
Killing task linuxcncsvr, PID=3437
Removing HAL_LIB, RTAPI, and Real Time OS modules
Removing NML shared memory segments

Debug file information:

./EMCO.hal:22: Pin 'hm2_5i25.0.7i76.0.0.output-15' does not exist
3437

PID	TTY	STAT	TIME	COMMAND
-----	-----	------	------	---------

Stopping realtime threads

Unloading hal components

Kernel message information:

```
[ 0.000000] Initializing cgroup subsys cpuset  
[ 0.000000] Initializing cgroup subsys cpu  
[ 0.000000] Linux version 3.4-9-rtai-686-pae (Debian 3.4.55-4linuxcnc) () (gcc version 4.6.3  
(Debian 4.6.3-14) ) #1 SMP PREEMPT Debian 3.4.55-4linuxcnc  
[ 0.000000] BIOS-provided physical RAM map:  
[ 0.000000] BIOS-e820: 0000000000000000 - 0000000000009ac00 (usable)  
[ 0.000000] BIOS-e820: 0000000000009ac00 - 000000000000a0000 (reserved)  
[ 0.000000] BIOS-e820: 000000000000e0000 - 00000000000100000 (reserved)  
[ 0.000000] BIOS-e820: 00000000000100000 - 000000000cf1f7000 (usable)  
[ 0.000000] BIOS-e820: 000000000cf1f7000 - 000000000cf23b000 (reserved)  
[ 0.000000] BIOS-e820: 000000000cf23b000 - 000000000cf5b7000 (usable)  
[ 0.000000] BIOS-e820: 000000000cf5b7000 - 000000000cf5e7000 (reserved)  
[ 0.000000] BIOS-e820: 000000000cf5e7000 - 000000000cf7e7000 (ACPI NVS)
```

```
[ 0.000000] BIOS-e820: 00000000cf7e7000 - 00000000cf7ff000 (ACPI data)
[ 0.000000] BIOS-e820: 00000000cf7ff000 - 00000000cf800000 (usable)
[ 0.000000] BIOS-e820: 00000000fed1c000 - 00000000fed20000 (reserved)
[ 0.000000] BIOS-e820: 00000000ffc00000 - 00000000ffc20000 (reserved)
[ 0.000000] BIOS-e820: 0000000100000000 - 000000022e000000 (usable)
[ 0.000000] Notice: NX (Execute Disable) protection cannot be enabled: non-PAE kernel!
[ 0.000000] SMBIOS 2.6 present.
[ 0.000000] DMI: Dell Inc. OptiPlex 790/0HY9JP, BIOS A17 03/14/2013
[ 0.000000] e820 update range: 0000000000000000 - 0000000000010000 (usable) ==> (reserved)
[ 0.000000] e820 remove range: 00000000000a0000 - 0000000000100000 (usable)
[ 0.000000] last_pfn = 0xcf800 max_arch_pfn = 0x100000
[ 0.000000] MTRR default type: uncachable
[ 0.000000] MTRR fixed ranges enabled:
[ 0.000000] 00000-97FFF write-back
[ 0.000000] 98000-9BFFF write-protect
[ 0.000000] 9C000-9FFFF write-back
[ 0.000000] A0000-BFFFF uncachable
[ 0.000000] C0000-FFFFFF write-protect
[ 0.000000] MTRR variable ranges enabled:
[ 0.000000] 0 base 00000000 mask F8000000 write-back
[ 0.000000] 1 base 08000000 mask FC000000 write-back
[ 0.000000] 2 base 0C000000 mask FF000000 write-back
[ 0.000000] 3 base 10000000 mask F0000000 write-back
[ 0.000000] 4 base 20000000 mask FE000000 write-back
[ 0.000000] 5 base 22000000 mask FF000000 write-back
[ 0.000000] 6 base 22E00000 mask FFE00000 uncachable
[ 0.000000] 7 base 0FFC0000 mask FFFC0000 write-protect
[ 0.000000] 8 disabled
[ 0.000000] 9 disabled
[ 0.000000] x86 PAT enabled: cpu 0, old 0x7040600070406, new 0x7010600070106
[ 0.000000] found SMP MP-table at [c00f2210] f2210
[ 0.000000] initial memory mapped : 0 - 01800000
[ 0.000000] Base memory trampoline at [c0096000] 96000 size 16384
[ 0.000000] init_memory_mapping: 0000000000000000-00000000377fe000
[ 0.000000] 0000000000 - 0000400000 page 4k
[ 0.000000] 0000400000 - 0037400000 page 2M
[ 0.000000] 0037400000 - 00377fe000 page 4k
[ 0.000000] kernel direct mapping tables up to 0x377fdfff @ [mem 0x017f8000-0x017fffff]
[ 0.000000] RAMDISK: 36524000 - 3728a000
[ 0.000000] ACPI: RSDP 000fe300 00024 (v02 DELL )
[ 0.000000] ACPI: XSDT cf7fde18 00074 (v01 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI: FACP cf787d98 000F4 (v04 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI Warning: 32/64 FACS address mismatch in FADT - two FACS tables!
(20120320/tbfadt-378)
[ 0.000000] ACPI Warning: 32/64X FACS address mismatch in FADT -
0xCF7E4E40/0x00000000CF7E4D40, using 32 (20120320/tbfadt-502)
[ 0.000000] ACPI: DSDT cf771018 07581 (v02 INT430 SYSFexxx 00001001 INTL 20090903)
[ 0.000000] ACPI: FACS cf7e4e40 00040
[ 0.000000] ACPI: APIC cf7fcf18 000CC (v02 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI: TCPA cf7e5d18 00032 (v02 00000000 00000000)
[ 0.000000] ACPI: SSDT cf788a98 002F9 (v01 DELLTPM TPM 00003000 INTL 20090903)
[ 0.000000] ACPI: MCFG cf7e5c98 0003C (v01 DELL SNDYBRDG 06222004 MSFT
```

00000097)

```
[ 0.000000] ACPI: HPET cf7e5c18 00038 (v01 A M I PCHHPET 06222004 AMI. 00000003)
[ 0.000000] ACPI: BOOT cf7e5b98 00028 (v01 DELL CBX3 06222004 AMI 00010013)
[ 0.000000] ACPI: SSDT cf77e818 007C2 (v01 PmRef Cpu0Ist 00003000 INTL 20090903)
[ 0.000000] ACPI: SSDT cf77d018 00996 (v01 PmRef CpuPm 00003000 INTL 20090903)
[ 0.000000] ACPI: SLIC cf786c18 00176 (v03 DELL CBX3 06222004 MSFT 00010013)
[ 0.000000] ACPI: Local APIC address 0xfe00000
[ 0.000000] 2432MB HIGHMEM available.
[ 0.000000] 887MB LOWMEM available.
[ 0.000000] mapped low ram: 0 - 377fe000
[ 0.000000] low ram: 0 - 377fe000
[ 0.000000] Zone PFN ranges:
[ 0.000000] DMA 0x00000010 -> 0x00001000
[ 0.000000] Normal 0x00001000 -> 0x000377fe
[ 0.000000] HighMem 0x000377fe -> 0x000cf800
[ 0.000000] Movable zone start PFN for each node
[ 0.000000] Early memory PFN ranges
[ 0.000000] 0: 0x00000010 -> 0x0000009a
[ 0.000000] 0: 0x00000100 -> 0x000cf1f7
[ 0.000000] 0: 0x000cf23b -> 0x000cf5b7
[ 0.000000] 0: 0x000cf7ff -> 0x000cf800
[ 0.000000] On node 0 totalpages: 849150
[ 0.000000] free_area_init_node: node 0, pgdat c1498a00, node_mem_map f4b34200
[ 0.000000] DMA zone: 32 pages used for memmap
[ 0.000000] DMA zone: 0 pages reserved
[ 0.000000] DMA zone: 3946 pages, LIFO batch:0
[ 0.000000] Normal zone: 1744 pages used for memmap
[ 0.000000] Normal zone: 221486 pages, LIFO batch:31
[ 0.000000] HighMem zone: 4865 pages used for memmap
[ 0.000000] HighMem zone: 617077 pages, LIFO batch:31
[ 0.000000] Using APIC driver default
[ 0.000000] ACPI: PM-Timer IO Port: 0x408
[ 0.000000] ACPI: Local APIC address 0xfe00000
[ 0.000000] ACPI: LAPIC (acpi_id[0x01] lapic_id[0x00] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x02] lapic_id[0x02] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x03] lapic_id[0x04] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x04] lapic_id[0x06] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x05] lapic_id[0x04] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x06] lapic_id[0x05] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x07] lapic_id[0x06] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x08] lapic_id[0x07] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x09] lapic_id[0x08] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0a] lapic_id[0x09] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0b] lapic_id[0x0a] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0c] lapic_id[0x0b] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0d] lapic_id[0x0c] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0e] lapic_id[0x0d] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x0f] lapic_id[0x0e] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x10] lapic_id[0x0f] disabled)
[ 0.000000] ACPI: IOAPIC (id[0x02] address[0xfec00000] gsi_base[0])
[ 0.000000] IOAPIC[0]: apic_id 2, version 32, address 0xfec00000, GSI 0-23
[ 0.000000] ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl dfl)
```

```
[ 0.000000] ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 high level)
[ 0.000000] ACPI: IRQ0 used by override.
[ 0.000000] ACPI: IRQ2 used by override.
[ 0.000000] ACPI: IRQ9 used by override.
[ 0.000000] Using ACPI (MADT) for SMP configuration information
[ 0.000000] ACPI: HPET id: 0x8086a701 base: 0xfed00000
[ 0.000000] 16 Processors exceeds NR_CPUS limit of 8
[ 0.000000] SMP: Allowing 8 CPUs, 4 hotplug CPUs
[ 0.000000] nr_irqs_gsi: 40
[ 0.000000] PM: Registered nosave memory: 000000000009a000 - 000000000009b000
[ 0.000000] PM: Registered nosave memory: 000000000009b000 - 00000000000a0000
[ 0.000000] PM: Registered nosave memory: 00000000000a0000 - 00000000000e0000
[ 0.000000] PM: Registered nosave memory: 00000000000e0000 - 0000000000100000
[ 0.000000] Allocating PCI resources starting at cf800000 (gap: cf800000:2f51c000)
[ 0.000000] setup_percpu: NR_CPUS:8 nr_cpumask_bits:8 nr_cpu_ids:8 nr_node_ids:1
[ 0.000000] PERCPU: Embedded 17 pages/cpu @f7763000 s48384 r0 d21248 u69632
[ 0.000000] pcpu-alloc: s48384 r0 d21248 u69632 alloc=17*4096
[ 0.000000] pcpu-alloc: [0] 0 [0] 1 [0] 2 [0] 3 [0] 4 [0] 5 [0] 6 [0] 7
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 842509
[ 0.000000] Kernel command line: BOOT_IMAGE=/boot/vmlinuz-3.4-9-rtai-686-pae
root=UUID=0291646e-08d8-4e58-870e-ced0690f298d ro initrd=/install/gtk/initrd.gz lapic quiet
rootdelay=5
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Initializing CPU#0
[ 0.000000] xsave/xrstor: enabled xstate_bv 0x7, cntxt size 0x340
[ 0.000000] allocated 6799232 bytes of page_cgroup
[ 0.000000] please try 'cgroup_disable=memory' option if you don't want memory cgroups
[ 0.000000] Initializing HighMem for node 0 (000377fe:000cf800)
[ 0.000000] Memory: 3342400k/3399680k available (3495k kernel code, 54200k reserved, 1237k
data, 416k init, 2487768k highmem)
[ 0.000000] virtual kernel memory layout:
[ 0.000000]  fixmap : 0xfff17000 - 0xfffff000 ( 928 kB)
[ 0.000000]  pkmap : 0xff800000 - 0xffc00000 (4096 kB)
[ 0.000000]  vmalloc : 0xf7ffe000 - 0xff7fe000 ( 120 MB)
[ 0.000000]  lowmem : 0xc0000000 - 0xf77fe000 ( 887 MB)
[ 0.000000]   .init : 0xc14a0000 - 0xc1508000 ( 416 kB)
[ 0.000000]   .data : 0xc1369d4a - 0xc149f480 (1237 kB)
[ 0.000000]   .text : 0xc1000000 - 0xc1369d4a (3495 kB)
[ 0.000000] Checking if this processor honours the WP bit even in supervisor mode...Ok.
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] RCU dyntick-idle grace-period acceleration is enabled.
[ 0.000000] NR_IRQS:2304 nr_irqs:744 16
[ 0.000000] CPU 0 irqstacks, hard=f4006000 soft=f4008000
[ 0.000000] Extended CMOS year: 2000
[ 0.000000] Interrupt pipeline (release #3)
[ 0.000000] Console: colour VGA+ 80x25
[ 0.000000] console [tty0] enabled
[ 0.000000] hpet clockevent registered
[ 0.000000] Fast TSC calibration using PIT
[ 0.004000] Detected 3093.085 MHz processor.
```

```
[ 0.000001] Calibrating delay loop (skipped), value calculated using timer frequency.. 6186.17
BogoMIPS (lpj=12372340)
[ 0.000004] pid_max: default: 32768 minimum: 301
[ 0.000031] Security Framework initialized
[ 0.000035] AppArmor: AppArmor disabled by boot time parameter
[ 0.000046] Mount-cache hash table entries: 512
[ 0.000177] Initializing cgroup subsys cpuacct
[ 0.000179] Initializing cgroup subsys memory
[ 0.000184] Initializing cgroup subsys devices
[ 0.000186] Initializing cgroup subsys freezer
[ 0.000187] Initializing cgroup subsys net_cls
[ 0.000188] Initializing cgroup subsys blkio
[ 0.000192] Initializing cgroup subsys perf_event
[ 0.000212] CPU: Physical Processor ID: 0
[ 0.000213] CPU: Processor Core ID: 0
[ 0.000217] ENERGY_PERF_BIAS: Set to 'normal', was 'performance'
[ 0.000217] ENERGY_PERF_BIAS: View and update with x86_energy_perf_policy(8)
[ 0.000219] mce: CPU supports 9 MCE banks
[ 0.000229] CPU0: Thermal monitoring enabled (TM1)
[ 0.000301] ACPI: Core revision 20120320
[ 0.004466] Enabling APIC mode: Flat. Using 1 I/O APICs
[ 0.004859] ..TIMER: vector=0x30 apic1=0 pin1=2 apic2=-1 pin2=-1
[ 0.044537] CPU0: Intel(R) Core(TM) i5-2400 CPU @ 3.10GHz stepping 07
[ 0.148982] Performance Events: PEBS fmt1+, 16-deep LBR, SandyBridge events, Intel PMU
driver.
[ 0.148988] PEBS disabled due to CPU errata.
[ 0.148990] ... version:          3
[ 0.148991] ... bit width:          48
[ 0.148992] ... generic registers:   8
[ 0.148994] ... value mask:         0000ffffffffffff
[ 0.148995] ... max period:         000000007fffffff
[ 0.148996] ... fixed-purpose events: 3
[ 0.148997] ... event mask:         00000007000000ff
[ 0.161020] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.172984] CPU 1 irqstacks, hard=f4118000 soft=f411a000
[ 0.172986] Booting Node 0, Processors #1
[ 0.183281] Initializing CPU#1
[ 0.186133] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.192983] CPU 2 irqstacks, hard=f4148000 soft=f414a000
[ 0.192985] #2
[ 0.203214] Initializing CPU#2
[ 0.206128] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.212977] CPU 3 irqstacks, hard=f415c000 soft=f415e000
[ 0.212979] #3
[ 0.223209] Initializing CPU#3
[ 0.226122] NMI watchdog: enabled, takes one hw-pmu counter.
[ 0.226148] Brought up 4 CPUs
[ 0.226150] Total of 4 processors activated (24744.68 BogoMIPS).
[ 0.228501] devtmpfs: initialized
[ 0.228665] PM: Registering ACPI NVS region [mem 0xcf5e7000-0xcf7e6fff] (2097152 bytes)
[ 0.228786] dummy:
[ 0.228829] NET: Registered protocol family 16
```

[0.228915] ACPI FADT declares the system doesn't support PCIe ASPM, so disable it
[0.228917] ACPI: bus type pci registered
[0.228971] PCI: MMCONFIG for domain 0000 [bus 00-3f] at [mem 0xf8000000-0xfbffffff]
(base 0xf8000000)
[0.228973] PCI: not using MMCONFIG
[0.229127] PCI: PCI BIOS revision 2.10 entry at 0xfd092, last bus=4
[0.229128] PCI: Using configuration type 1 for base access
[0.229134] dmi type 0xB1 record - unknown flag
[0.229218] mtrr: your CPUs had inconsistent fixed MTRR settings
[0.229219] mtrr: probably your BIOS does not setup all CPUs.
[0.229220] mtrr: corrected configuration.
[0.229575] bio: create slab <bio-0> at 0
[0.229643] ACPI: Added _OSI(Module Device)
[0.229645] ACPI: Added _OSI(Processor Device)
[0.229647] ACPI: Added _OSI(3.0 _SCP Extensions)
[0.229648] ACPI: Added _OSI(Processor Aggregator Device)
[0.230954] ACPI: EC: Look up EC in DSDT
[0.235568] [Firmware Bug]: ACPI: BIOS _OSI(Linux) query ignored
[0.238017] ACPI: SSDT cf5d8a98 00303 (v01 PmRef ApIst 00003000 INTL 20090903)
[0.238414] ACPI: Dynamic OEM Table Load:
[0.238417] ACPI: SSDT (null) 00303 (v01 PmRef ApIst 00003000 INTL 20090903)
[0.238994] ACPI: Interpreter enabled
[0.239001] ACPI: (supports S0 S3 S4 S5)
[0.239021] ACPI: Using IOAPIC for interrupt routing
[0.239039] PCI: MMCONFIG for domain 0000 [bus 00-3f] at [mem 0xf8000000-0xfbffffff]
(base 0xf8000000)
[0.239157] ACPI Error: Invalid/unsupported resource descriptor: Type 0x00 (20120320/utresrc-
650)
[0.239429] PCI: MMCONFIG at [mem 0xf8000000-0xfbffffff] reserved in ACPI motherboard
resources
[0.239430] PCI: Using MMCONFIG for extended config space
[0.243864] ACPI: No dock devices found.
[0.243869] PCI: Using host bridge windows from ACPI; if necessary, use "pci=nocrs" and report
a bug
[0.244199] _SB_.PCI0:._OSC invalid UUID
[0.244201] _OSC request data:1 8 0
[0.244205] ACPI: PCI Root Bridge [PCI0] (domain 0000 [bus 00-3e])
[0.244769] pci_root PNP0A08:00: host bridge window [io 0x0000-0x0cf7]
[0.244771] pci_root PNP0A08:00: host bridge window [io 0x0d00-0xffff]
[0.244772] pci_root PNP0A08:00: host bridge window [mem 0x000a0000-0x000bffff]
[0.244775] pci_root PNP0A08:00: host bridge window [mem 0xd0000000-0xfeafffff]
[0.244799] PCI host bridge to bus 0000:00
[0.244801] pci_bus 0000:00: root bus resource [io 0x0000-0x0cf7]
[0.244803] pci_bus 0000:00: root bus resource [io 0x0d00-0xffff]
[0.244805] pci_bus 0000:00: root bus resource [mem 0x000a0000-0x000bffff]
[0.244806] pci_bus 0000:00: root bus resource [mem 0xd0000000-0xfeafffff]
[0.244815] pci 0000:00:00.0: [8086:0100] type 00 class 0x060000
[0.244844] pci 0000:00:01.0: [8086:0101] type 01 class 0x060400
[0.244867] pci 0000:00:01.0: PME# supported from D0 D3hot D3cold
[0.244910] pci 0000:00:16.0: [8086:1c3a] type 00 class 0x078000
[0.244934] pci 0000:00:16.0: reg 10: [mem 0xd0d70000-0xd0d7000f 64bit]
[0.244996] pci 0000:00:16.0: PME# supported from D0 D3hot D3cold

[0.245020] pci 0000:00:16.3: [8086:1c3d] type 00 class 0x070002
[0.245038] pci 0000:00:16.3: reg 10: [io 0x4080-0x4087]
[0.245048] pci 0000:00:16.3: reg 14: [mem 0xd0d50000-0xd0d50fff]
[0.245134] pci 0000:00:1a.0: [8086:1c2d] type 00 class 0x0c0320
[0.245155] pci 0000:00:1a.0: reg 10: [mem 0xd0d40000-0xd0d403ff]
[0.245228] pci 0000:00:1a.0: PME# supported from D0 D3hot D3cold
[0.245252] pci 0000:00:1c.0: [8086:1c10] type 01 class 0x060400
[0.245313] pci 0000:00:1c.0: PME# supported from D0 D3hot D3cold
[0.245339] pci 0000:00:1c.2: [8086:1c14] type 01 class 0x060400
[0.245400] pci 0000:00:1c.2: PME# supported from D0 D3hot D3cold
[0.245432] pci 0000:00:1d.0: [8086:1c26] type 00 class 0x0c0320
[0.245453] pci 0000:00:1d.0: reg 10: [mem 0xd0d30000-0xd0d303ff]
[0.245525] pci 0000:00:1d.0: PME# supported from D0 D3hot D3cold
[0.245546] pci 0000:00:1e.0: [8086:244e] type 01 class 0x060401
[0.245602] pci 0000:00:1f.0: [8086:1c4c] type 00 class 0x060100
[0.245714] pci 0000:00:1f.2: [8086:1c02] type 00 class 0x010601
[0.245732] pci 0000:00:1f.2: reg 10: [io 0x4070-0x4077]
[0.245739] pci 0000:00:1f.2: reg 14: [io 0x4060-0x4063]
[0.245747] pci 0000:00:1f.2: reg 18: [io 0x4050-0x4057]
[0.245755] pci 0000:00:1f.2: reg 1c: [io 0x4040-0x4043]
[0.245763] pci 0000:00:1f.2: reg 20: [io 0x4020-0x403f]
[0.245771] pci 0000:00:1f.2: reg 24: [mem 0xd0d20000-0xd0d207ff]
[0.245802] pci 0000:00:1f.2: PME# supported from D3hot
[0.245819] pci 0000:00:1f.3: [8086:1c22] type 00 class 0x0c0500
[0.245834] pci 0000:00:1f.3: reg 10: [mem 0xd0d10000-0xd0d100ff 64bit]
[0.245855] pci 0000:00:1f.3: reg 20: [io 0x4000-0x401f]
[0.245907] pci 0000:01:00.0: [1002:68f9] type 00 class 0x030000
[0.245919] pci 0000:01:00.0: reg 10: [mem 0xe0000000-0xefffffff 64bit pref]
[0.245929] pci 0000:01:00.0: reg 18: [mem 0xd0c20000-0xd0c3ffff 64bit]
[0.245936] pci 0000:01:00.0: reg 20: [io 0x3000-0x30ff]
[0.245948] pci 0000:01:00.0: reg 30: [mem 0xd0c00000-0xd0c1ffff pref]
[0.245965] pci 0000:01:00.0: supports D1 D2
[0.254106] pci 0000:00:01.0: PCI bridge to [bus 01-01]
[0.254109] pci 0000:00:01.0: bridge window [io 0x3000-0x3fff]
[0.254111] pci 0000:00:01.0: bridge window [mem 0xd0c00000-0xd0cfffff]
[0.254114] pci 0000:00:01.0: bridge window [mem 0xe0000000-0xefffffff 64bit pref]
[0.254158] pci 0000:00:1c.0: PCI bridge to [bus 02-02]
[0.254255] pci 0000:03:00.0: [1033:0194] type 00 class 0x0c0330
[0.254301] pci 0000:03:00.0: reg 10: [mem 0xd0100000-0xd0101fff 64bit]
[0.254488] pci 0000:03:00.0: PME# supported from D0 D3hot D3cold
[0.262117] pci 0000:00:1c.2: PCI bridge to [bus 03-03]
[0.262121] pci 0000:00:1c.2: bridge window [io 0x2000-0x2fff]
[0.262125] pci 0000:00:1c.2: bridge window [mem 0xd0100000-0xd0afffff]
[0.262130] pci 0000:00:1c.2: bridge window [mem 0xf0000000-0xf09fffff 64bit pref]
[0.262161] pci 0000:04:02.0: [2718:5125] type 00 class 0x110000
[0.262175] pci 0000:04:02.0: reg 10: [mem 0xd0b00000-0xd0b0ffff]
[0.262264] pci 0000:00:1e.0: PCI bridge to [bus 04-04] (subtractive decode)
[0.262270] pci 0000:00:1e.0: bridge window [mem 0xd0b00000-0xd0bfffff]
[0.262276] pci 0000:00:1e.0: bridge window [io 0x0000-0x0cf7] (subtractive decode)
[0.262278] pci 0000:00:1e.0: bridge window [io 0x0d00-0xffff] (subtractive decode)
[0.262279] pci 0000:00:1e.0: bridge window [mem 0x000a0000-0x000bffff] (subtractive decode)

[0.262282] pci 0000:00:1e.0: bridge window [mem 0xd0000000-0xfeafffff] (subtractive decode)
[0.262299] pci_bus 0000:00: on NUMA node 0
[0.262301] ACPI: PCI Interrupt Routing Table [_SB_.PCI0._PRT]
[0.262524] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.RP01._PRT]
[0.262564] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.RP03._PRT]
[0.262613] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.PEG0._PRT]
[0.262658] ACPI: PCI Interrupt Routing Table [_SB_.PCI0.P0P1._PRT]
[0.262803] _SB_.PCI0:_OSC invalid UUID
[0.262804] _OSC request data:1 f 0
[0.262808] pci0000:00: Unable to request _OSC control (_OSC support mask: 0x0f)
[0.265865] ACPI: PCI Interrupt Link [LNKA] (IRQs 1 3 4 5 6 7 10 12 14 15) *11
[0.265910] ACPI: PCI Interrupt Link [LNKB] (IRQs 1 3 4 5 6 7 11 12 14 15) *10
[0.265954] ACPI: PCI Interrupt Link [LNKC] (IRQs 1 3 4 *5 6 7 10 12 14 15)
[0.265997] ACPI: PCI Interrupt Link [LNKD] (IRQs 1 3 4 5 6 7 11 12 14 15) *0, disabled.
[0.266041] ACPI: PCI Interrupt Link [LNKE] (IRQs 1 3 4 5 6 7 10 12 14 15) *0, disabled.
[0.266085] ACPI: PCI Interrupt Link [LNKF] (IRQs 1 3 4 5 6 7 11 12 14 15) *0, disabled.
[0.266132] ACPI: PCI Interrupt Link [LNKG] (IRQs 1 3 4 5 6 7 10 12 14 15) *0, disabled.
[0.266175] ACPI: PCI Interrupt Link [LNKH] (IRQs 1 3 4 5 6 7 11 12 14 15) *0, disabled.
[0.266238] vgaarb: device added:
PCI:0000:01:00.0,decodes=io+mem,owns=io+mem,locks=none
[0.266240] vgaarb: loaded
[0.266242] vgaarb: bridge control possible 0000:01:00.0
[0.266260] PCI: Using ACPI for IRQ routing
[0.266262] PCI: pci_cache_line_size set to 64 bytes
[0.266326] reserve RAM buffer: 000000000009ac00 - 000000000009ffff
[0.266327] reserve RAM buffer: 00000000cf1f7000 - 00000000cfffffff
[0.266329] reserve RAM buffer: 00000000cf5b7000 - 00000000cfffffff
[0.266331] reserve RAM buffer: 00000000cf800000 - 00000000cfffffff
[0.266425] hpet0: at MMIO 0xfed00000, IRQs 2, 8, 0, 0, 0, 0, 0, 0
[0.266431] hpet0: 8 comparators, 64-bit 14.318180 MHz counter
[0.268444] Switching to clocksource hpet
[0.268490] pnp: PnP ACPI init
[0.268498] ACPI: bus type pnp registered
[0.268798] pnp 00:00: [bus 00-3e]
[0.268800] pnp 00:00: [io 0x0000-0x0cf7 window]
[0.268801] pnp 00:00: [io 0x0cf8-0x0cff]
[0.268804] pnp 00:00: [io 0xd00-0xffff window]
[0.268805] pnp 00:00: [mem 0x000a0000-0x000bffff window]
[0.268807] pnp 00:00: [mem 0x000c0000-0x000c3fff window]
[0.268809] pnp 00:00: [mem 0x000c4000-0x000c7fff window]
[0.268810] pnp 00:00: [mem 0x000c8000-0x000cbfff window]
[0.268812] pnp 00:00: [mem 0x000cc000-0x000cffff window]
[0.268814] pnp 00:00: [mem 0x000d0000-0x000d3fff window]
[0.268815] pnp 00:00: [mem 0x000d4000-0x000d7fff window]
[0.268817] pnp 00:00: [mem 0x000d8000-0x000dbfff window]
[0.268819] pnp 00:00: [mem 0x000dc000-0x000dffff window]
[0.268820] pnp 00:00: [mem 0x000e0000-0x000e3fff window]
[0.268822] pnp 00:00: [mem 0x000e4000-0x000e7fff window]
[0.268823] pnp 00:00: [mem 0x000e8000-0x000ebfff window]
[0.268825] pnp 00:00: [mem 0x000ec000-0x000effff window]
[0.268827] pnp 00:00: [mem 0x000f0000-0x000fffff window]
[0.268828] pnp 00:00: [mem 0xd0000000-0xfeafffff window]

[0.268861] pnp 00:00: Plug and Play ACPI device, IDs PNP0a08 PNP0a03 (active)
[0.268885] pnp 00:01: [io 0x0000-0x001f]
[0.268887] pnp 00:01: [io 0x0081-0x0091]
[0.268888] pnp 00:01: [io 0x0093-0x009f]
[0.268890] pnp 00:01: [io 0x00c0-0x00df]
[0.268892] pnp 00:01: [dma 4]
[0.268909] pnp 00:01: Plug and Play ACPI device, IDs PNP0200 (active)
[0.268916] pnp 00:02: [mem 0xff000000-0xffffffff]
[0.268933] pnp 00:02: Plug and Play ACPI device, IDs INT0800 (active)
[0.268993] pnp 00:03: [mem 0xfed00000-0xfed003ff]
[0.269011] pnp 00:03: Plug and Play ACPI device, IDs PNP0103 (active)
[0.269019] pnp 00:04: [io 0x00f0]
[0.269026] pnp 00:04: [irq 13]
[0.269044] pnp 00:04: Plug and Play ACPI device, IDs PNP0c04 (active)
[0.269062] pnp 00:05: [io 0x002e-0x002f]
[0.269063] pnp 00:05: [io 0x004e-0x004f]
[0.269065] pnp 00:05: [io 0x0061]
[0.269066] pnp 00:05: [io 0x0063]
[0.269068] pnp 00:05: [io 0x0065]
[0.269069] pnp 00:05: [io 0x0067]
[0.269070] pnp 00:05: [io 0x0070]
[0.269072] pnp 00:05: [io 0x0080]
[0.269073] pnp 00:05: [io 0x0092]
[0.269074] pnp 00:05: [io 0x00b2-0x00b3]
[0.269076] pnp 00:05: [io 0x0680-0x069f]
[0.269077] pnp 00:05: [io 0xffff]
[0.269079] pnp 00:05: [io 0xffff]
[0.269080] pnp 00:05: [io 0xffff]
[0.269081] pnp 00:05: [io 0x0400-0x0453]
[0.269083] pnp 00:05: [io 0x0458-0x047f]
[0.269084] pnp 00:05: [io 0x0500-0x057f]
[0.269086] pnp 00:05: [io 0x164e-0x164f]
[0.269117] system 00:05: [io 0x0680-0x069f] has been reserved
[0.269119] system 00:05: [io 0xffff] has been reserved
[0.269120] system 00:05: [io 0xffff] has been reserved
[0.269122] system 00:05: [io 0xffff] has been reserved
[0.269124] system 00:05: [io 0x0400-0x0453] has been reserved
[0.269126] system 00:05: [io 0x0458-0x047f] has been reserved
[0.269128] system 00:05: [io 0x0500-0x057f] has been reserved
[0.269130] system 00:05: [io 0x164e-0x164f] has been reserved
[0.269132] system 00:05: Plug and Play ACPI device, IDs PNP0c02 (active)
[0.269139] pnp 00:06: [io 0x0070-0x0077]
[0.269143] pnp 00:06: [irq 8]
[0.269161] pnp 00:06: Plug and Play ACPI device, IDs PNP0b00 (active)
[0.269184] pnp 00:07: [io 0x0454-0x0457]
[0.269212] system 00:07: [io 0x0454-0x0457] has been reserved
[0.269214] system 00:07: Plug and Play ACPI device, IDs INT3f0d PNP0c02 (active)
[0.269273] pnp 00:08: [io 0x0060]
[0.269275] pnp 00:08: [io 0x0064]
[0.269279] pnp 00:08: [irq 12]
[0.269305] pnp 00:08: Plug and Play ACPI device, IDs PNP0f13 (active)
[0.269480] pnp 00:09: [io 0x03f8-0x03ff]

[0.269484] pnp 00:09: [irq 4]
[0.269521] pnp 00:09: Plug and Play ACPI device, IDs PNP0501 (active)
[0.269697] pnp 00:0a: [mem 0xfed1c000-0xfed1ffff]
[0.269699] pnp 00:0a: [mem 0xfed10000-0xfed17fff]
[0.269700] pnp 00:0a: [mem 0xfed18000-0xfed18fff]
[0.269702] pnp 00:0a: [mem 0xfed19000-0xfed19fff]
[0.269703] pnp 00:0a: [mem 0xf8000000-0xfbffffff]
[0.269705] pnp 00:0a: [mem 0xfed20000-0xfed3ffff]
[0.269706] pnp 00:0a: [mem 0xfed90000-0xfed93fff]
[0.269708] pnp 00:0a: [mem 0xfed45000-0xfed8ffff]
[0.269709] pnp 00:0a: [mem 0xff000000-0xffffffff]
[0.269711] pnp 00:0a: [mem 0xfe000000-0xfeffffff]
[0.269712] pnp 00:0a: [mem 0x00000000-0xffffffff disabled]
[0.269714] pnp 00:0a: [mem 0x00000000-0xffffffff disabled]
[0.269755] system 00:0a: [mem 0xfed1c000-0xfed1ffff] has been reserved
[0.269757] system 00:0a: [mem 0xfed10000-0xfed17fff] has been reserved
[0.269759] system 00:0a: [mem 0xfed18000-0xfed18fff] has been reserved
[0.269761] system 00:0a: [mem 0xfed19000-0xfed19fff] has been reserved
[0.269763] system 00:0a: [mem 0xf8000000-0xfbffffff] has been reserved
[0.269765] system 00:0a: [mem 0xfed20000-0xfed3ffff] has been reserved
[0.269767] system 00:0a: [mem 0xfed90000-0xfed93fff] has been reserved
[0.269769] system 00:0a: [mem 0xfed45000-0xfed8ffff] has been reserved
[0.269771] system 00:0a: [mem 0xff000000-0xffffffff] could not be reserved
[0.269773] system 00:0a: [mem 0xfe000000-0xfeffffff] has been reserved
[0.269775] system 00:0a: Plug and Play ACPI device, IDs PNP0c02 (active)
[0.269793] ACPI Error: Invalid/unsupported resource descriptor: Type 0x00 (20120320/utresrc-650)
[0.269797] pnp 00:0b: can't evaluate _CRS: 12311
[0.269893] system 00:0b: Plug and Play ACPI device, IDs PNP0c01 (active)
[0.270055] pnp: PnP ACPI: found 12 devices
[0.270056] ACPI: ACPI bus type pnp unregistered
[0.270058] PnPBIOS: Disabled by ACPI PNP
[0.306164] pci 0000:00:01.0: PCI bridge to [bus 01-01]
[0.306167] pci 0000:00:01.0: bridge window [io 0x3000-0x3fff]
[0.306170] pci 0000:00:01.0: bridge window [mem 0xd0c00000-0xd0cfffff]
[0.306172] pci 0000:00:01.0: bridge window [mem 0xe0000000-0xffffffff 64bit pref]
[0.306176] pci 0000:00:1c.0: PCI bridge to [bus 02-02]
[0.306187] pci 0000:00:1c.2: PCI bridge to [bus 03-03]
[0.306190] pci 0000:00:1c.2: bridge window [io 0x2000-0x2fff]
[0.306195] pci 0000:00:1c.2: bridge window [mem 0xd0100000-0xd0afffff]
[0.306199] pci 0000:00:1c.2: bridge window [mem 0xf0000000-0xf09fffff 64bit pref]
[0.306205] pci 0000:00:1e.0: PCI bridge to [bus 04-04]
[0.306210] pci 0000:00:1e.0: bridge window [mem 0xd0b00000-0xd0bfffff]
[0.306245] pci 0000:00:1e.0: setting latency timer to 64
[0.306249] pci_bus 0000:00: resource 4 [io 0x0000-0x0cf7]
[0.306250] pci_bus 0000:00: resource 5 [io 0x0d00-0xffff]
[0.306252] pci_bus 0000:00: resource 6 [mem 0x000a0000-0x000bffff]
[0.306254] pci_bus 0000:00: resource 7 [mem 0xd0000000-0xfeafffff]
[0.306255] pci_bus 0000:01: resource 0 [io 0x3000-0x3fff]
[0.306257] pci_bus 0000:01: resource 1 [mem 0xd0c00000-0xd0cfffff]
[0.306259] pci_bus 0000:01: resource 2 [mem 0xe0000000-0xffffffff 64bit pref]
[0.306260] pci_bus 0000:03: resource 0 [io 0x2000-0x2fff]

[0.306262] pci_bus 0000:03: resource 1 [mem 0xd0100000-0xd0afffff]
[0.306264] pci_bus 0000:03: resource 2 [mem 0xf0000000-0xf09fffff 64bit pref]
[0.306265] pci_bus 0000:04: resource 1 [mem 0xd0b00000-0xd0bfffff]
[0.306267] pci_bus 0000:04: resource 4 [io 0x0000-0x0cf7]
[0.306269] pci_bus 0000:04: resource 5 [io 0x0d00-0xffff]
[0.306270] pci_bus 0000:04: resource 6 [mem 0x000a0000-0x000bffff]
[0.306272] pci_bus 0000:04: resource 7 [mem 0xd0000000-0xfeafffff]
[0.306335] NET: Registered protocol family 2
[0.306377] IP route cache hash table entries: 32768 (order: 5, 131072 bytes)
[0.306494] TCP established hash table entries: 131072 (order: 8, 1048576 bytes)
[0.306651] TCP bind hash table entries: 65536 (order: 7, 524288 bytes)
[0.306720] TCP: Hash tables configured (established 131072 bind 65536)
[0.306721] TCP: reno registered
[0.306723] UDP hash table entries: 512 (order: 2, 16384 bytes)
[0.306727] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)
[0.306789] NET: Registered protocol family 1
[0.306864] pci 0000:01:00.0: Boot video device
[0.306921] PCI: CLS 64 bytes, default 64
[0.306950] Unpacking initramfs...
[0.512091] Freeing initrd memory: 13720k freed
[0.513547] Simple Boot Flag at 0xf3 set to 0x1
[0.513927] audit: initializing netlink socket (disabled)
[0.513941] type=2000 audit(1472262017.404:1): initialized
[0.523242] highmem bounce pool size: 64 pages
[0.523246] HugeTLB registered 4 MB page size, pre-allocated 0 pages
[0.523405] VFS: Disk quotas dquot_6.5.2
[0.523426] Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[0.523479] msgmni has been set to 1696
[0.523599] alg: No test for stdrng (krng)
[0.523620] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 253)
[0.523622] io scheduler noop registered
[0.523624] io scheduler deadline registered
[0.523642] io scheduler cfq registered (default)
[0.523804] pci_hotplug: PCI Hot Plug PCI Core version: 0.5
[0.523816] pciehp: PCI Express Hot Plug Controller Driver version: 0.4
[0.523817] acpiphp: ACPI Hot Plug PCI Controller Driver version: 0.5
[0.524111] GHES: HEST is not enabled!
[0.524118] isapnp: Scanning for PnP cards...
[0.877975] isapnp: No Plug & Play device found
[0.878006] Serial: 8250/16550 driver, 4 ports, IRQ sharing enabled
[0.898421] serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[0.919053] 00:09: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[0.939344] 0000:00:16.3: ttyS1 at I/O 0x4080 (irq = 17) is a 16550A
[0.939485] Linux agpgart interface v0.103
[0.939639] i8042: PNP: PS/2 Controller [PNP0f13:MOU] at 0x60,0x64 irq 12
[0.939641] i8042: PNP: PS/2 controller doesn't have KBD irq; using default 1
[0.942622] serio: i8042 KBD port at 0x60,0x64 irq 1
[0.942642] serio: i8042 AUX port at 0x60,0x64 irq 12
[0.942712] mousedev: PS/2 mouse device common for all mice
[0.942744] rtc_cmos 00:06: RTC can wake from S4
[0.942856] rtc_cmos 00:06: rtc core: registered rtc_cmos as rtc0
[0.942883] rtc0: alarms up to one year, y3k, 242 bytes nvram, hpet irqs

[0.942965] TCP: cubic registered
[0.943019] NET: Registered protocol family 10
[0.943173] Mobile IPv6
[0.943175] NET: Registered protocol family 17
[0.943178] Registering the dns_resolver key type
[0.943210] Using IPI No-Shortcut mode
[0.943278] PM: Hibernation image not present or could not be loaded.
[0.943284] registered taskstats version 1
[0.943586] rtc_cmos 00:06: setting system clock to 2016-08-27 01:40:18 UTC (1472262018)
[0.943662] Freeing unused kernel memory: 416k freed
[0.943753] Write protecting the kernel text: 3496k
[0.943771] Write protecting the kernel read-only data: 984k
[0.951275] udevd[58]: starting version 175
[0.960828] usbcore: registered new interface driver usbfs
[0.960843] usbcore: registered new interface driver hub
[0.963030] microcode: CPU0 sig=0x206a7, pf=0x2, revision=0x28
[0.963308] usbcore: registered new device driver usb
[0.963544] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[0.963590] ehci_hcd 0000:00:1a.0: setting latency timer to 64
[0.963594] ehci_hcd 0000:00:1a.0: EHCI Host Controller
[0.963611] ehci_hcd 0000:00:1a.0: new USB bus registered, assigned bus number 1
[0.963632] ehci_hcd 0000:00:1a.0: debug port 2
[0.967524] ehci_hcd 0000:00:1a.0: cache line size of 64 is not supported
[0.967543] ehci_hcd 0000:00:1a.0: irq 16, io mem 0xd0d40000
[0.977644] SCSI subsystem initialized
[0.978605] ehci_hcd 0000:00:1a.0: USB 2.0 started, EHCI 1.00
[0.978625] usb usb1: New USB device found, idVendor=1d6b, idProduct=0002
[0.978627] usb usb1: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.978629] usb usb1: Product: EHCI Host Controller
[0.978630] usb usb1: Manufacturer: Linux 3.4-9-rtai-686-pae ehci_hcd
[0.978632] usb usb1: SerialNumber: 0000:00:1a.0
[0.978911] hub 1-0:1.0: USB hub found
[0.978914] hub 1-0:1.0: 3 ports detected
[0.978997] ehci_hcd 0000:00:1d.0: setting latency timer to 64
[0.979000] ehci_hcd 0000:00:1d.0: EHCI Host Controller
[0.979006] ehci_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 2
[0.979028] ehci_hcd 0000:00:1d.0: debug port 2
[0.979979] xhci_hcd 0000:03:00.0: xHCI Host Controller
[0.979986] xhci_hcd 0000:03:00.0: new USB bus registered, assigned bus number 3
[0.980319] usb usb3: New USB device found, idVendor=1d6b, idProduct=0002
[0.980321] usb usb3: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.980323] usb usb3: Product: xHCI Host Controller
[0.980324] usb usb3: Manufacturer: Linux 3.4-9-rtai-686-pae xhci_hcd
[0.980326] usb usb3: SerialNumber: 0000:03:00.0
[0.980561] xHCI xhci_add_endpoint called for root hub
[0.980563] xHCI xhci_check_bandwidth called for root hub
[0.980589] hub 3-0:1.0: USB hub found
[0.980601] hub 3-0:1.0: 2 ports detected
[0.980663] xhci_hcd 0000:03:00.0: xHCI Host Controller
[0.980667] xhci_hcd 0000:03:00.0: new USB bus registered, assigned bus number 4
[0.982377] libata version 3.00 loaded.
[0.982903] ehci_hcd 0000:00:1d.0: cache line size of 64 is not supported

[0.982919] ehci_hcd 0000:00:1d.0: irq 17, io mem 0xd0d30000
[0.983516] usb usb4: New USB device found, idVendor=1d6b, idProduct=0003
[0.983519] usb usb4: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.983520] usb usb4: Product: xHCI Host Controller
[0.983522] usb usb4: Manufacturer: Linux 3.4-9-rtai-686-pae xhci_hcd
[0.983523] usb usb4: SerialNumber: 0000:03:00.0
[0.983579] xHCI xhci_add_endpoint called for root hub
[0.983580] xHCI xhci_check_bandwidth called for root hub
[0.983601] hub 4-0:1.0: USB hub found
[0.983612] hub 4-0:1.0: 2 ports detected
[0.986204] microcode: CPU0 updated to revision 0x29, date = 2013-06-12
[0.986211] microcode: CPU1 sig=0x206a7, pf=0x2, revision=0x28
[0.987856] microcode: CPU1 updated to revision 0x29, date = 2013-06-12
[0.987866] microcode: CPU2 sig=0x206a7, pf=0x2, revision=0x28
[0.989546] microcode: CPU2 updated to revision 0x29, date = 2013-06-12
[0.989556] microcode: CPU3 sig=0x206a7, pf=0x2, revision=0x28
[0.991180] microcode: CPU3 updated to revision 0x29, date = 2013-06-12
[0.991212] microcode: Microcode Update Driver: v2.00 <tigran@aivazian.fsnet.co.uk>, Peter Oruba
[0.992310] ehci_hcd 0000:00:1d.0: USB 2.0 started, EHCI 1.00
[0.992325] usb usb2: New USB device found, idVendor=1d6b, idProduct=0002
[0.992327] usb usb2: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[0.992329] usb usb2: Product: EHCI Host Controller
[0.992331] usb usb2: Manufacturer: Linux 3.4-9-rtai-686-pae ehci_hcd
[0.992332] usb usb2: SerialNumber: 0000:00:1d.0
[0.992417] hub 2-0:1.0: USB hub found
[0.992422] hub 2-0:1.0: 3 ports detected
[0.992479] ahci 0000:00:1f.2: version 3.0
[1.008305] ahci 0000:00:1f.2: AHCI 0001.0300 32 slots 6 ports 6 Gbps 0x5 impl SATA mode
[1.008308] ahci 0000:00:1f.2: flags: 64bit ncq sntf pm led clo pio slum part ems apst
[1.008313] ahci 0000:00:1f.2: setting latency timer to 64
[1.016660] scsi0 : ahci
[1.016741] scsi1 : ahci
[1.016795] scsi2 : ahci
[1.016848] scsi3 : ahci
[1.016900] scsi4 : ahci
[1.016953] scsi5 : ahci
[1.016987] ata1: SATA max UDMA/133 abar m2048@0xd0d20000 port 0xd0d20100 irq 18
[1.016989] ata2: DUMMY
[1.016992] ata3: SATA max UDMA/133 abar m2048@0xd0d20000 port 0xd0d20200 irq 18
[1.016993] ata4: DUMMY
[1.016994] ata5: DUMMY
[1.016995] ata6: DUMMY
[1.288237] usb 1-1: new high-speed USB device number 2 using ehci_hcd
[1.336228] ata1: SATA link up 6.0 Gbps (SStatus 133 SControl 300)
[1.336246] ata3: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
[1.337022] ata1.00: ATA-8: WDC WD2500AAKX-753CA1, 17.01H17, max UDMA/133
[1.337024] ata1.00: 488397168 sectors, multi 16: LBA48 NCQ (depth 31/32), AA
[1.337916] ata1.00: configured for UDMA/133
[1.338005] scsi 0:0:0: Direct-Access ATA WDC WD2500AAKX-7 17.0 PQ: 0 ANSI: 5
[1.338655] ata3.00: ATAPI: PLDS DVD+/-RW DH-16ABS, PD11, max UDMA/100
[1.339452] ata3.00: configured for UDMA/100

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[ 1.341355] scsi 2:0:0:0: CD-ROM      PLDS   DVD+-RW DH-16ABS PD11 PQ: 0 ANSI: 5
[ 1.343779] sd 0:0:0:0: [sda] 488397168 512-byte logical blocks: (250 GB/232 GiB)
[ 1.343810] sd 0:0:0:0: [sda] Write Protect is off
[ 1.343812] sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
[ 1.343824] sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or
FUA
[ 1.346934] sr0: scsi3-mmc drive: 48x/48x writer dvd-ram cd/rw xa/form2 cdda tray
[ 1.346936] cdrom: Uniform CD-ROM driver Revision: 3.20
[ 1.347019] sr 2:0:0:0: Attached scsi CD-ROM sr0
[ 1.380801] sda: sda1 sda2 < sda5 >
[ 1.380998] sd 0:0:0:0: [sda] Attached SCSI disk
[ 1.382054] sd 0:0:0:0: Attached scsi generic sg0 type 0
[ 1.382090] sr 2:0:0:0: Attached scsi generic sg1 type 5
[ 1.420612] usb 1-1: New USB device found, idVendor=8087, idProduct=0024
[ 1.420614] usb 1-1: New USB device strings: Mfr=0, Product=0, SerialNumber=0
[ 1.420758] hub 1-1:1.0: USB hub found
[ 1.420860] hub 1-1:1.0: 6 ports detected
[ 1.512187] Refined TSC clocksource calibration: 3092.972 MHz.
[ 1.512191] Switching to clocksource tsc
[ 1.532179] usb 2-1: new high-speed USB device number 2 using ehci_hcd
[ 1.664554] usb 2-1: New USB device found, idVendor=8087, idProduct=0024
[ 1.664556] usb 2-1: New USB device strings: Mfr=0, Product=0, SerialNumber=0
[ 1.664697] hub 2-1:1.0: USB hub found
[ 1.664803] hub 2-1:1.0: 8 ports detected
[ 1.936246] usb 2-1.3: new full-speed USB device number 3 using ehci_hcd
[ 2.029096] usb 2-1.3: New USB device found, idVendor=413c, idProduct=1005
[ 2.029098] usb 2-1.3: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[ 2.029100] usb 2-1.3: Product: Dell Multimedia Pro Keyboard Hub
[ 2.029102] usb 2-1.3: Manufacturer: Dell
[ 2.029857] hub 2-1.3:1.0: USB hub found
[ 2.029971] hub 2-1.3:1.0: 3 ports detected
[ 2.100208] usb 2-1.6: new low-speed USB device number 4 using ehci_hcd
[ 2.197684] usb 2-1.6: New USB device found, idVendor=046d, idProduct=c063
[ 2.197686] usb 2-1.6: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[ 2.197687] usb 2-1.6: Product: DELL USB Laser Mouse
[ 2.197689] usb 2-1.6: Manufacturer: DELL
[ 2.203527] input: DELL DELL USB Laser Mouse as /devices/pci0000:00/0000:00:1d.0/usb2/2-
1/2-1.6/2-1.6:1.0/input/input0
[ 2.203582] generic-usb 0003:046D:C063.0001: input,hidraw0: USB HID v1.10 Mouse [DELL
DELL USB Laser Mouse] on usb-0000:00:1d.0-1.6/input0
[ 2.203595] usbcore: registered new interface driver usbhid
[ 2.203596] usbhid: USB HID core driver
[ 2.300161] usb 2-1.3.1: new low-speed USB device number 5 using ehci_hcd
[ 2.398012] usb 2-1.3.1: New USB device found, idVendor=413c, idProduct=2011
[ 2.398014] usb 2-1.3.1: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[ 2.398016] usb 2-1.3.1: Product: Dell Multimedia Pro Keyboard
[ 2.398017] usb 2-1.3.1: Manufacturer: Dell
[ 2.403734] input: Dell Dell Multimedia Pro Keyboard as
/devices/pci0000:00/0000:00:1d.0/usb2/2-1/2-1.3/2-1.3.1/2-1.3.1:1.0/input/input1
[ 2.403776] generic-usb 0003:413C:2011.0002: input,hidraw1: USB HID v1.10 Keyboard [Dell
Dell Multimedia Pro Keyboard] on usb-0000:00:1d.0-1.3.1/input0
[ 2.411042] input: Dell Dell Multimedia Pro Keyboard as
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/devices/pci0000:00/0000:00:1d.0/usb2/2-1/2-1.3/2-1.3.1/2-1.3.1:1.1/input/input2
[ 2.411075] generic-usb 0003:413C:2011.0003: input,hidraw2: USB HID v1.10 Device [Dell Dell
Multimedia Pro Keyboard] on usb-0000:00:1d.0-1.3.1/input1
[ 6.754638] PM: Starting manual resume from disk
[ 6.754640] PM: Hibernation image partition 8:5 present
[ 6.754642] PM: Looking for hibernation image.
[ 6.754770] PM: Image not found (code -22)
[ 6.754772] PM: Hibernation image not present or could not be loaded.
[ 6.795722] EXT4-fs (sda1): mounted filesystem with ordered data mode. Opts: (null)
[ 8.745450] udevd[410]: starting version 175
[ 8.968635] input: Power Button as
/devices/LNXSYSTM:00/LNXXSYBUS:00/PNP0C0C:00/input/input3
[ 8.968640] ACPI: Power Button [PWRB]
[ 8.968675] input: Power Button as /devices/LNXSYSTM:00/LNXPWRBN:00/input/input4
[ 8.968678] ACPI: Power Button [PWRB]
[ 9.313176] dcdbas dcdbas: Dell Systems Management Base Driver (version 5.6.0-3.2)
[ 9.327124] iTCO_vendor_support: vendor-support=0
[ 9.331235] iTCO_wdt: Intel TCO WatchDog Timer Driver v1.07
[ 9.331286] iTCO_wdt: Found a Cougar Point TCO device (Version=2, TCOBASE=0x0460)
[ 9.331333] iTCO_wdt: initialized. heartbeat=30 sec (nowayout=0)
[ 9.416722] ACPI Warning: 0x00004000-0x0000401f SystemIO conflicts with Region
\_SB_.PCI0.SBUS.SMBI 1 (20120320/utaddress-251)
[ 9.416728] ACPI: If an ACPI driver is available for this device, you should use it instead of the
native driver
[ 9.441150] [drm] Initialized drm 1.1.0 20060810
[ 9.480623] [drm] radeon kernel modesetting enabled.
[ 9.480766] [drm] initializing kernel modesetting (CEDAR 0x1002:0x68F9 0x1028:0x2126).
[ 9.480785] [drm] register mmio base: 0xD0C20000
[ 9.480786] [drm] register mmio size: 131072
[ 9.480836] ATOM BIOS: C09002
[ 9.480852] radeon 0000:01:00.0: VRAM: 512M 0x0000000000000000 - 0x000000001FFFFFFF
(512M used)
[ 9.480854] radeon 0000:01:00.0: GTT: 512M 0x0000000020000000 - 0x000000003FFFFFFF
[ 9.482678] [drm] Detected VRAM RAM=512M, BAR=256M
[ 9.482681] [drm] RAM width 64bits DDR
[ 9.482723] [TTM] Zone kernel: Available graphics memory: 434384 kiB
[ 9.482725] [TTM] Zone highmem: Available graphics memory: 1678268 kiB
[ 9.482726] [TTM] Initializing pool allocator
[ 9.482745] [drm] radeon: 512M of VRAM memory ready
[ 9.482746] [drm] radeon: 512M of GTT memory ready.
[ 9.482758] [drm] GART: num cpu pages 131072, num gpu pages 131072
[ 9.482903] [drm] radeon: ib pool ready.
[ 9.482960] [drm] Loading CEDAR Microcode
[ 10.529759] [drm] PCIE GART of 512M enabled (table at 0x00000000000040000).
[ 10.529858] radeon 0000:01:00.0: WB enabled
[ 10.529861] [drm] fence driver on ring 0 use gpu addr 0x20000c00 and cpu addr 0xff968c00
[ 10.529864] [drm] Supports vblank timestamp caching Rev 1 (10.10.2010).
[ 10.529865] [drm] Driver supports precise vblank timestamp query.
[ 10.529882] [drm] radeon: irq initialized.
[ 10.546042] [drm] ring test on 0 succeeded in 1 usecs
[ 10.546130] [drm] ib test on ring 0 succeeded in 0 usecs
[ 10.546312] [drm] Radeon Display Connectors
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[10.546314] [drm] Connector 0:
[10.546315] [drm] DVI-I
[10.546316] [drm] HPD2
[10.546318] [drm] DDC: 0x6460 0x6460 0x6464 0x6464 0x6468 0x6468 0x646c 0x646c
[10.546319] [drm] Encoders:
[10.546320] [drm] DFP1: INTERNAL_UNIPHY1
[10.546321] [drm] CRT2: INTERNAL_KLDSCP_DAC2
[10.546323] [drm] Connector 1:
[10.546324] [drm] DVI-I
[10.546325] [drm] HPD4
[10.546326] [drm] DDC: 0x6450 0x6450 0x6454 0x6454 0x6458 0x6458 0x645c 0x645c
[10.546327] [drm] Encoders:
[10.546328] [drm] DFP2: INTERNAL_UNIPHY
[10.546329] [drm] CRT1: INTERNAL_KLDSCP_DAC1
[10.546360] [drm] Internal thermal controller with fan control
[10.546384] [drm] radeon: power management initialized
[10.592438] [drm] fb mappable at 0xE0142000
[10.592439] [drm] vram apper at 0xE0000000
[10.592440] [drm] size 5242880
[10.592441] [drm] fb depth is 24
[10.592442] [drm] pitch is 5120
[10.592484] fbcon: radeondrmfb (fb0) is primary device
[10.825780] Console: switching to colour frame buffer device 160x64
[10.828305] fb0: radeondrmfb frame buffer device
[10.828307] drm: registered panic notifier
[10.828311] [drm] Initialized radeon 2.16.0 20080528 for 0000:01:00.0 on minor 0
[11.592726] Adding 9920508k swap on /dev/sda5. Priority:-1 extents:1 across:9920508k
[11.600863] EXT4-fs (sda1): re-mounted. Opts: (null)
[11.808291] EXT4-fs (sda1): re-mounted. Opts: errors=remount-ro
[11.894058] loop: module loaded
[12.919111] RPC: Registered named UNIX socket transport module.
[12.919113] RPC: Registered udp transport module.
[12.919115] RPC: Registered tcp transport module.
[12.919116] RPC: Registered tcp NFSv4.1 backchannel transport module.
[12.970349] FS-Cache: Loaded
[12.989908] NFS: Registering the id_resolver key type
[12.989920] FS-Cache: Netfs 'nfs' registered for caching
[13.001218] Installing knfsd (copyright (C) 1996 okir@monad.swb.de).
[15.002328] input: ACPI Virtual Keyboard Device as /devices/virtual/input/input5
[16.900159] Bluetooth: Core ver 2.16
[16.900170] NET: Registered protocol family 31
[16.900171] Bluetooth: HCI device and connection manager initialized
[16.900173] Bluetooth: HCI socket layer initialized
[16.900174] Bluetooth: L2CAP socket layer initialized
[16.900177] Bluetooth: SCO socket layer initialized
[16.926400] Bluetooth: RFCOMM TTY layer initialized
[16.926403] Bluetooth: RFCOMM socket layer initialized
[16.926405] Bluetooth: RFCOMM ver 1.11
[17.409153] Bluetooth: BNEP (Ethernet Emulation) ver 1.3
[17.409156] Bluetooth: BNEP filters: protocol multicast
[18.441710] lp: driver loaded but no devices found
[19.063597] ppdev: user-space parallel port driver

[19.138668] parport0: PC-style at 0x378 (0x778) [PCSPP,TRISTATE]
[19.264357] parport0: irq 7 detected
[19.360315] lp0: using parport0 (polling).
[344.679375] I-pipe: head domain RTAI registered.
[344.679379] RTAI[hal]: compiled with gcc version 4.7.2 (Debian 4.7.2-5) .
[344.679423] RTAI[hal]: mounted (IPIPE-NOTHREADS, IMMEDIATE (INTERNAL IRQs DISPATCHED), ISOL_CPUS_MASK: 0).
[344.679425] SYSINFO: CPUs 4, LINUX APIC IRQ 2312, TIM_FREQ 6235350, CLK_FREQ 3093085000, CPU_FREQ 3093085000
[344.679427] RTAI_APIC_TIMER_IPI: RTAI DEFINED 2314, VECTOR 2314;
LINUX_APIC_TIMER_IPI: RTAI DEFINED 2312, VECTOR 2312
[344.679429] TIMER NAME: lapic; VARIOUSLY FOUND APIC FREQs: 6235350, 6235350, 2281000
[344.710057] RTAI[malloc]: global heap size = 2097152 bytes, <BSD>.
[344.710076] , <uses LINUX SYSCALLs>, kstacks pool size = 524288 bytes.
[344.710079] RTAI[sched]: hard timer type/freq = APIC/6235350(Hz); default timing: oneshot; linear timed lists.
[344.710082] RTAI[sched]: Linux timer freq = 250 (Hz), TimeBase freq = 3093085000 hz.
[344.710083] RTAI[sched]: timer setup = 999 ns, resched latency = 2943 ns.
[344.716151] RTAI[math]: loaded.
[345.031813] hm2: loading Mesa HostMot2 driver version 0.15
[345.037521] hm2_pci: loading Mesa AnyIO HostMot2 driver version 0.7
[345.037546] hm2_pci: discovered 5i25 at 0000:04:02.0
[345.037742] hm2/hm2_5i25.0: Smart Serial Firmware Version 43
[345.093072] hm2/hm2_5i25.0: 34 I/O Pins used:
[345.093074] hm2/hm2_5i25.0: IO Pin 000 (P3-01): StepGen #0, pin Direction (Output)
[345.093076] hm2/hm2_5i25.0: IO Pin 001 (P3-14): StepGen #0, pin Step (Output)
[345.093078] hm2/hm2_5i25.0: IO Pin 002 (P3-02): StepGen #1, pin Direction (Output)
[345.093080] hm2/hm2_5i25.0: IO Pin 003 (P3-15): StepGen #1, pin Step (Output)
[345.093082] hm2/hm2_5i25.0: IO Pin 004 (P3-03): StepGen #2, pin Direction (Output)
[345.093083] hm2/hm2_5i25.0: IO Pin 005 (P3-16): StepGen #2, pin Step (Output)
[345.093085] hm2/hm2_5i25.0: IO Pin 006 (P3-04): IOPort
[345.093086] hm2/hm2_5i25.0: IO Pin 007 (P3-17): IOPort
[345.093088] hm2/hm2_5i25.0: IO Pin 008 (P3-05): IOPort
[345.093089] hm2/hm2_5i25.0: IO Pin 009 (P3-06): IOPort
[345.093091] hm2/hm2_5i25.0: IO Pin 010 (P3-07): IOPort
[345.093092] hm2/hm2_5i25.0: IO Pin 011 (P3-08): IOPort
[345.093093] hm2/hm2_5i25.0: IO Pin 012 (P3-09): IOPort
[345.093095] hm2/hm2_5i25.0: IO Pin 013 (P3-10): IOPort
[345.093096] hm2/hm2_5i25.0: IO Pin 014 (P3-11): IOPort
[345.093098] hm2/hm2_5i25.0: IO Pin 015 (P3-12): IOPort
[345.093099] hm2/hm2_5i25.0: IO Pin 016 (P3-13): IOPort
[345.093100] hm2/hm2_5i25.0: IO Pin 017 (P2-01): IOPort
[345.093102] hm2/hm2_5i25.0: IO Pin 018 (P2-14): IOPort
[345.093103] hm2/hm2_5i25.0: IO Pin 019 (P2-02): IOPort
[345.093105] hm2/hm2_5i25.0: IO Pin 020 (P2-15): IOPort
[345.093106] hm2/hm2_5i25.0: IO Pin 021 (P2-03): IOPort
[345.093108] hm2/hm2_5i25.0: IO Pin 022 (P2-16): IOPort
[345.093109] hm2/hm2_5i25.0: IO Pin 023 (P2-04): IOPort
[345.093110] hm2/hm2_5i25.0: IO Pin 024 (P2-17): IOPort
[345.093112] hm2/hm2_5i25.0: IO Pin 025 (P2-05): IOPort
[345.093113] hm2/hm2_5i25.0: IO Pin 026 (P2-06): IOPort

[345.093114] hm2/hm2_5i25.0: IO Pin 027 (P2-07): IOPort
[345.093116] hm2/hm2_5i25.0: IO Pin 028 (P2-08): IOPort
[345.093117] hm2/hm2_5i25.0: IO Pin 029 (P2-09): IOPort
[345.093119] hm2/hm2_5i25.0: IO Pin 030 (P2-10): IOPort
[345.093120] hm2/hm2_5i25.0: IO Pin 031 (P2-11): IOPort
[345.093121] hm2/hm2_5i25.0: IO Pin 032 (P2-12): IOPort
[345.093123] hm2/hm2_5i25.0: IO Pin 033 (P2-13): IOPort
[345.093156] hm2/hm2_5i25.0: registered
[345.093157] hm2_5i25.0: initialized AnyIO board at 0000:04:02.0
[345.346775] hm2_5i25.0: dropping AnyIO board at 0000:04:02.0
[345.346779] hm2/hm2_5i25.0: unregistered
[345.346806] hm2_pci: driver unloaded
[345.347741] hm2: unloading
[347.494665] RTAI[math]: unloaded.
[347.495626] SCHED releases registered named ALIEN PEDV\$D
[347.497968] RTAI[malloc]: unloaded.
[347.595659] RTAI[sched]: unloaded (forced hard/soft/hard transitions: traps 0, syscalls 0).
[347.596656] I-pipe: head domain RTAI unregistered.
[347.596705] RTAI[hal]: unmounted.

[345.093157] hm2_5i25.0: initialized AnyIO board at 0000:04:02.0
[345.346775] hm2_5i25.0: dropping AnyIO board at 0000:04:02.0
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[347.596656] I-pipe: head domain RTAI unregistered.
[347.596705] RTAI[hal]: unmounted.

Bluetooth: HCI socket layer initialized

[16.900174] Bluetooth: L2CAP socket layer initialized
[16.900177] Bluetooth: SCO socket layer initialized
[16.926400] Bluetooth: RFCOMM TTY layer initialized
[16.926403] Bluetooth: RFCOMM socket layer initialized
[16.926405] Bluetooth: RFCOMM ver 1.11
[17.409153] Bluetooth: BNEP (Ethernet Emulation) ver 1.3
[17.409156] Bluetooth: BNEP filters: protocol multicast
[18.441710] lp: driver loaded but no devices found
[19.063597] ppdev: user-space parallel port driver
[19.138668] parport0: PC-style at 0x378 (0x778) [PCSPP,TRISTATE]
[19.264357] parport0: irq 7 detected
[19.360315] lp0: using parport0 (polling).
[344.679375] I-pipe: head domain RTAI registered.
[344.679379] RTAI[hal]: compiled with gcc version 4.7.2 (Debian 4.7.2-5) .
[344.679423] RTAI[hal]: mounted (IPIPE-NO_THREADS, IMMEDIATE (INTERNAL IRQs DISPATCHED), ISOL_CPUS_MASK: 0).
[344.679425] SYSINFO: CPUs 4, LINUX APIC IRQ 2312, TIM_FREQ 6235350, CLK_FREQ 3093085000, CPU_FREQ 3093085000

[344.679427] RTAI_APIC_TIMER_IPI: RTAI DEFINED 2314, VECTOR 2314;
LINUX_APIC_TIMER_IPI: RTAI DEFINED 2312, VECTOR 2312
[344.679429] TIMER NAME: lapic; VARIOUSLY FOUND APIC FREQs: 6235350, 6235350,
2281000
[344.710057] RTAI[malloc]: global heap size = 2097152 bytes, <BSD>.
[344.710076] , <uses LINUX SYSCALLs>, kstacks pool size = 524288 bytes.
[344.710079] RTAI[sched]: hard timer type/freq = APIC/6235350(Hz); default timing: oneshot;
linear timed lists.
[344.710082] RTAI[sched]: Linux timer freq = 250 (Hz), TimeBase freq = 3093085000 hz.
[344.710083] RTAI[sched]: timer setup = 999 ns, resched latency = 2943 ns.
[344.716151] RTAI[math]: loaded.
[345.031813] hm2: loading Mesa HostMot2 driver version 0.15
[345.037521] hm2_pci: loading Mesa AnyIO HostMot2 driver version 0.7
[345.037546] hm2_pci: discovered 5i25 at 0000:04:02.0
[345.037742] hm2/hm2_5i25.0: Smart Serial Firmware Version 43
[345.093072] hm2/hm2_5i25.0: 34 I/O Pins used:
[345.093074] hm2/hm2_5i25.0: IO Pin 000 (P3-01): StepGen #0, pin Direction (Output)
[345.093076] hm2/hm2_5i25.0: IO Pin 001 (P3-14): StepGen #0, pin Step (Output)
[345.093078] hm2/hm2_5i25.0: IO Pin 002 (P3-02): StepGen #1, pin Direction (Output)
[345.093080] hm2/hm2_5i25.0: IO Pin 003 (P3-15): StepGen #1, pin Step (Output)
[345.093082] hm2/hm2_5i25.0: IO Pin 004 (P3-03): StepGen #2, pin Direction (Output)
[345.093083] hm2/hm2_5i25.0: IO Pin 005 (P3-16): StepGen #2, pin Step (Output)
[345.093085] hm2/hm2_5i25.0: IO Pin 006 (P3-04): IOPort
[345.093086] hm2/hm2_5i25.0: IO Pin 007 (P3-17): IOPort
[345.093088] hm2/hm2_5i25.0: IO Pin 008 (P3-05): IOPort
[345.093089] hm2/hm2_5i25.0: IO Pin 009 (P3-06): IOPort
[345.093091] hm2/hm2_5i25.0: IO Pin 010 (P3-07): IOPort
[345.093092] hm2/hm2_5i25.0: IO Pin 011 (P3-08): IOPort
[345.093093] hm2/hm2_5i25.0: IO Pin 012 (P3-09): IOPort
[345.093095] hm2/hm2_5i25.0: IO Pin 013 (P3-10): IOPort
[345.093096] hm2/hm2_5i25.0: IO Pin 014 (P3-11): IOPort
[345.093098] hm2/hm2_5i25.0: IO Pin 015 (P3-12): IOPort
[345.093099] hm2/hm2_5i25.0: IO Pin 016 (P3-13): IOPort
[345.093100] hm2/hm2_5i25.0: IO Pin 017 (P2-01): IOPort
[345.093102] hm2/hm2_5i25.0: IO Pin 018 (P2-14): IOPort
[345.093103] hm2/hm2_5i25.0: IO Pin 019 (P2-02): IOPort
[345.093105] hm2/hm2_5i25.0: IO Pin 020 (P2-15): IOPort
[345.093106] hm2/hm2_5i25.0: IO Pin 021 (P2-03): IOPort
[345.093108] hm2/hm2_5i25.0: IO Pin 022 (P2-16): IOPort
[345.093109] hm2/hm2_5i25.0: IO Pin 023 (P2-04): IOPort
[345.093110] hm2/hm2_5i25.0: IO Pin 024 (P2-17): IOPort
[345.093112] hm2/hm2_5i25.0: IO Pin 025 (P2-05): IOPort
[345.093113] hm2/hm2_5i25.0: IO Pin 026 (P2-06): IOPort
[345.093114] hm2/hm2_5i25.0: IO Pin 027 (P2-07): IOPort
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