

Re: [PATCH 0/13] Time: Generic Timeofday Subsystem (v B10)

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-11/4902.html>

From: Frank Sorenson (frank_at_tuxrocks.com)

Date: 11/14/05

Date: Mon, 14 Nov 2005 14:53:17 -0700

To: john stultz <johnstul@us.ibm.com>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

john stultz wrote:

> *Hmm... Not sure if this is mis-calibration or just bad-interaction w/
> kthrt. Mind sending a dmesg to me?*

dmesg attached

>>*and 'pit' seems to produce errors (system will not switch from pit to
>>another clocksource anymore):*

Odd. This time, I got the errors when I switched from acpi_pm (which it had defaulted to at bootup) to jiffies. System has not locked at one clocksource yet, though.

> *Do the TOD patches have this issue by themselves, or is this only with
> kthrt? I know I had some issues with non-continuous clocksources (pit,
> jiffies) with the kthrt patch, where it wouldn't fall back to
> non-high-res when the clocksource stopped supporting it.*

I only tried with kthrt because I ran into lots of conflicts when applying the patches to more recent kernels otherwise. I can try again with 2.6.14-mm2 in order to test it out.

Frank

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-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.2.7 (GNU/Linux)

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Re: [PATCH 0/13] Time: Generic Timeofday Subsystem (v B10)

Linux-Kernel: Re: [PATCH 0/13] Time: Generic Timeofday Subsystem (v B10)

iD8DBQFDeQdNaI0dwg4A47wRAmPLAJsGeBvY/M7wc4UehisbcLDVxcYi7wCgoaZM
gEKYNqAsmtXrgKI7ePr8Whg=
=wjal
-----END PGP SIGNATURE-----

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[ 0.000000] Linux version 2.6.15-rc1-kthrt2-fs2 (sorenson@moebius.cs.byu.edu) (gcc version 4.0.1
20050727 (Red Hat 4.0.1-5)) #2 PREEMPT Sun Nov 13 18:41:34 MST 2005
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: 0000000000000000 - 000000000009f000 (usable)
[ 0.000000] BIOS-e820: 000000000009f000 - 00000000000a0000 (reserved)
[ 0.000000] BIOS-e820: 0000000000100000 - 0000000005ffae000 (usable)
[ 0.000000] BIOS-e820: 0000000005ffae000 - 00000000060000000 (reserved)
[ 0.000000] BIOS-e820: 00000000fedaf000 - 00000000fee00000 (reserved)
[ 0.000000] BIOS-e820: 00000000ffb00000 - 0000000100000000 (reserved)
[ 0.000000] 639MB HIGHMEM available.
[ 0.000000] 896MB LOWMEM available.
[ 0.000000] On node 0 totalpages: 393134
[ 0.000000] DMA zone: 4096 pages, LIFO batch:2
[ 0.000000] Normal zone: 225280 pages, LIFO batch:64
[ 0.000000] HighMem zone: 163758 pages, LIFO batch:64
[ 0.000000] DMI 2.3 present.
[ 0.000000] ACPI: RSDP (v000 DELL ) @ 0x000fd00
[ 0.000000] ACPI: RSDT (v001 DELL Cpi R 0x27d50201 ASL 0x00000061) @ 0x5fff0000
[ 0.000000] ACPI: FADT (v001 DELL Cpi R 0x27d50201 ASL 0x00000061) @ 0x5fff0400
[ 0.000000] ACPI: DSDT (v001 INT430 SYSExxx 0x00001001 MSFT 0x0100000e) @ 0x00000000
[ 0.000000] ACPI: PM-Timer IO Port: 0x808
[ 0.000000] Allocating PCI resources starting at 70000000 (gap: 60000000:9eda0000)
[ 0.000000] Detected 1993.647 MHz processor.
[ 10.305106] Built 1 zonelists
[ 10.305108] Kernel command line: ro root=LABEL=/1 vga=794 nmi_watchdog=1 apic=verbose lapic
psmouse.proto=exps acpi_sleep=s3_bios init=/sbin/tuxinit console=tty0 console=ttyUSB0,9600
[ 10.305320] Local APIC disabled by BIOS -- reenabling.
[ 10.305322] Found and enabled local APIC!
[ 10.305324] mapped APIC to ffffd000 (fee00000)
[ 10.305328] Initializing CPU#0
[ 10.305386] CPU 0 irqstacks, hard=c05e4000 soft=c05e3000
[ 10.305389] PID hash table entries: 4096 (order: 12, 65536 bytes)
[ 10.426439] Event source pit installed with caps set: 0f
[ 10.426468] Console: colour dummy device 80x25
[ 10.427104] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 10.427813] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 10.481089] Memory: 1550872k/1572536k available (3506k kernel code, 19564k reserved, 1260k data, 212k
init, 655032k highmem)
[ 10.481109] Checking if this processor honours the WP bit even in supervisor mode... Ok.
[ 10.540282] Calibrating delay using timer specific routine.. 3988.30 BogoMIPS (lpj=1994153)
[ 10.540327] Mount-cache hash table entries: 512
[ 10.540452] CPU: After generic identify, caps: afe9fbfb 00000000 00000000 00000000 00000180 00000000
00000000
```

Re: [PATCH 0/13] Time: Generic Timeofday Subsystem (v B10)

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[ 10.540461] CPU: After vendor identify, caps: afe9fbbf 00000000 00000000 00000000 00000180 00000000
00000000
[ 10.540470] CPU: L1 I cache: 32K, L1 D cache: 32K
[ 10.540474] CPU: L2 cache: 2048K
[ 10.540476] CPU: After all inits, caps: afe9fbbf 00000000 00000000 00000040 00000180 00000000
00000000
[ 10.540482] Intel machine check architecture supported.
[ 10.540487] Intel machine check reporting enabled on CPU#0.
[ 10.540500] mtrr: v2.0 (20020519)
[ 10.540505] CPU: Intel(R) Pentium(R) M processor 2.00GHz stepping 06
[ 10.540510] Enabling fast FPU save and restore... done.
[ 10.540513] Enabling unmasked SIMD FPU exception support... done.
[ 10.540518] Checking 'hlt' instruction... OK.
[ 10.551138] txface-0109 [02] load_tables : ACPI Tables successfully acquired
[ 10.553386] Parsing all Control
Methods:.....
[ 10.558219] Table [DSDT](id 0005) - 364 Objects with 60 Devices 152 Methods 5 Regions
[ 10.558225] ACPI Namespace successfully loaded at root c062e158
[ 10.558232] ACPI: setting ELCR to 0200 (from 0800)
[ 10.559935] evxfevnt-0091 [03] enable : Transition to ACPI mode successful
[ 10.560003] enabled ExtINT on CPU#0
[ 10.560008] Using local APIC timer interrupts.
[ 10.560011] calibrating APIC timer ...
[ 10.660108] ..... CPU clock speed is 1993.0218 MHz.
[ 10.660110] ..... host bus clock speed is 99.0660 MHz.
[ 10.660114] Event source pit new caps set: 05
[ 10.660117] Event source lapic installed with caps set: 0a
[ 10.660220] checking if image is initramfs... it is
[ 10.726911] Freeing initrd memory: 985k freed
[ 10.727021] DEV: registering device: ID = 'platform'
[ 10.727026] PM: Adding info for No Bus:platform
[ 10.727039] bus type 'platform' registered
[ 10.727041] Registering sysdev class '<NULL>'
[ 10.727215] NET: Registered protocol family 16
[ 10.727228] device class 'pci_bus': registering
[ 10.727234] bus type 'pci' registered
[ 10.727236] device class 'tty': registering
[ 10.727240] ACPI: bus type pci registered
[ 10.744176] PCI: PCI BIOS revision 2.10 entry at 0xfcf9e, last bus=2
[ 10.744184] PCI: Using configuration type 1
[ 10.744189] Registering sys device 'cpu0'
[ 10.744789] bus type 'usb' registered
[ 10.744793] device class 'usb_host': registering
[ 10.744800] device class 'usb': registering
[ 10.744804] bus usb: add driver usbfs
[ 10.745049] usbcore: registered new driver usbfs
[ 10.745056] device class 'usb_device': registering
[ 10.745064] bus usb: add driver hub
[ 10.745254] usbcore: registered new driver hub
[ 10.745264] bus usb: add driver usb
[ 10.745445] device class 'graphics': registering
```

Linux-Kernel: Re: [PATCH 0/13] Time: Generic Timeofday Subsystem (v B10)

```
[ 10.745450] ACPI: Subsystem revision 20050902
[ 10.746619] evgpeblk-0988 [06] ev_create_gpe_block : GPE 00 to 1F [_GPE] 4 regs on int 0x9
[ 10.746628] evgpeblk-0996 [06] ev_create_gpe_block : Found 7 Wake, Enabled 2 Runtime GPEs in this
block
[ 10.753904] Completing Region/Field/Buffer/Package initialization:.....
[ 10.755836] Initialized 3/5 Regions 6/7 Fields 20/21 Buffers 16/25 Packages (373 nodes)
[ 10.755842] Executing all Device _STA and _INI methods:.....
[ 10.759907] 64 Devices found containing: 64 _STA, 3 _INI methods
[ 10.759919] ACPI: Interpreter enabled
[ 10.759922] ACPI: Using PIC for interrupt routing
[ 10.762706] ACPI: PCI Root Bridge [PCI0] (0000:00)
[ 10.762711] PCI: Probing PCI hardware (bus 00)
[ 10.762716] DEV: registering device: ID = 'pci0000:00'
[ 10.762721] PM: Adding info for No Bus:pci0000:00
[ 10.762924] ACPI: Assume root bridge [_SB_.PCI0] bus is 0
[ 10.773298] CLASS: registering class device: ID = '0000:00'
[ 10.773304] class_hotplug - name = 0000:00
[ 10.773790] PCI quirk: region 0800-087f claimed by ICH4 ACPI/GPIO/TCO
[ 10.773795] PCI quirk: region 0880-08bf claimed by ICH4 GPIO
[ 10.773838] PCI: Ignoring BAR0-3 of IDE controller 0000:00:1f.1
[ 10.773929] CLASS: registering class device: ID = '0000:01'
[ 10.773934] class_hotplug - name = 0000:01
[ 10.774151] Boot video device is 0000:01:00.0
[ 10.774184] CLASS: registering class device: ID = '0000:02'
[ 10.774188] class_hotplug - name = 0000:02
[ 10.774582] PCI: Transparent bridge - 0000:00:1e.0
[ 10.774606] CLASS: registering class device: ID = '0000:03'
[ 10.774611] class_hotplug - name = 0000:03
[ 10.774811] ACPI: PCI Interrupt Routing Table [_SB_.PCI0._PRT]
[ 10.775302] DEV: registering device: ID = '0000:00:00.0'
[ 10.775479] PM: Adding info for pci:0000:00:00.0
[ 10.775483] bus pci: add device 0000:00:00.0
[ 10.776573] DEV: registering device: ID = '0000:00:01.0'
[ 10.776768] PM: Adding info for pci:0000:00:01.0
[ 10.776774] bus pci: add device 0000:00:01.0
[ 10.777862] DEV: registering device: ID = '0000:00:1d.0'
[ 10.777940] PM: Adding info for pci:0000:00:1d.0
[ 10.777943] bus pci: add device 0000:00:1d.0
[ 10.779027] DEV: registering device: ID = '0000:00:1d.1'
[ 10.779242] PM: Adding info for pci:0000:00:1d.1
[ 10.779249] bus pci: add device 0000:00:1d.1
[ 10.780339] DEV: registering device: ID = '0000:00:1d.2'
[ 10.780548] PM: Adding info for pci:0000:00:1d.2
[ 10.780551] bus pci: add device 0000:00:1d.2
[ 10.781646] DEV: registering device: ID = '0000:00:1d.7'
[ 10.781854] PM: Adding info for pci:0000:00:1d.7
[ 10.781857] bus pci: add device 0000:00:1d.7
[ 10.782955] DEV: registering device: ID = '0000:00:1e.0'
[ 10.783170] PM: Adding info for pci:0000:00:1e.0
[ 10.783175] bus pci: add device 0000:00:1e.0
[ 10.784268] DEV: registering device: ID = '0000:00:1f.0'
```


Linux-Kernel: Re: [PATCH 0/13] Time: Generic Timeofday Subsystem (v B10)

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[ 10.819330] DEV: registering device: ID = '00:03'  
[ 10.819536] PM: Adding info for pnp:00:03  
[ 10.819541] bus pnp: add device 00:03  
[ 10.819615] DEV: registering device: ID = '00:04'  
[ 10.819829] PM: Adding info for pnp:00:04  
[ 10.819837] bus pnp: add device 00:04  
[ 10.819920] DEV: registering device: ID = '00:05'  
[ 10.820136] PM: Adding info for pnp:00:05  
[ 10.820140] bus pnp: add device 00:05  
[ 10.820220] DEV: registering device: ID = '00:06'  
[ 10.820433] PM: Adding info for pnp:00:06  
[ 10.820436] bus pnp: add device 00:06  
[ 10.820506] DEV: registering device: ID = '00:07'  
[ 10.820722] PM: Adding info for pnp:00:07  
[ 10.820725] bus pnp: add device 00:07  
[ 10.820809] DEV: registering device: ID = '00:08'  
[ 10.821030] PM: Adding info for pnp:00:08  
[ 10.821035] bus pnp: add device 00:08  
[ 10.821109] DEV: registering device: ID = '00:09'  
[ 10.821328] PM: Adding info for pnp:00:09  
[ 10.821334] bus pnp: add device 00:09  
[ 10.822069] pnp: PnP ACPI: found 10 devices  
[ 10.822081] device class 'misc': registering  
[ 10.822090] device class 'pcmcia_socket': registering  
[ 10.822100] device class 'input': registering  
[ 10.822110] bus type 'i2c' registered  
[ 10.822112] bus i2c: add driver i2c_adapter  
[ 10.822354] device class 'i2c-adapter': registering  
[ 10.822362] bus type 'ac97' registered  
[ 10.822364] PCI: Using ACPI for IRQ routing  
[ 10.822369] PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a report  
[ 10.829255] device class 'net': registering  
[ 10.838241] bus pnp: add driver system  
[ 10.838455] pnp: Matched Device 00:00 with Driver system  
[ 10.838458] bound device '00:00' to driver 'system'  
[ 10.838461] pnp: Bound Device 00:00 to Driver system  
[ 10.838463] pnp: Matched Device 00:01 with Driver system  
[ 10.838466] pnp: 00:01: ioport range 0x4d0-0x4d1 has been reserved  
[ 10.838471] pnp: 00:01: ioport range 0x800-0x805 could not be reserved  
[ 10.838475] pnp: 00:01: ioport range 0x808-0x80f could not be reserved  
[ 10.838478] bound device '00:01' to driver 'system'  
[ 10.838480] pnp: Bound Device 00:01 to Driver system  
[ 10.838482] pnp: Matched Device 00:02 with Driver system  
[ 10.838484] pnp: 00:02: ioport range 0xf400-0xf4fe has been reserved  
[ 10.838488] pnp: 00:02: ioport range 0x806-0x807 has been reserved  
[ 10.838491] pnp: 00:02: ioport range 0x810-0x85f could not be reserved  
[ 10.838495] pnp: 00:02: ioport range 0x860-0x87f has been reserved  
[ 10.838498] pnp: 00:02: ioport range 0x880-0x8bf has been reserved  
[ 10.838501] pnp: 00:02: ioport range 0x8c0-0x8df has been reserved  
[ 10.838504] bound device '00:02' to driver 'system'  
[ 10.838506] pnp: Bound Device 00:02 to Driver system
```

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[ 10.838510] pnp: Matched Device 00:07 with Driver system
[ 10.838512] pnp: 00:07: ioport range 0x900–0x97f has been reserved
[ 10.838515] bound device '00:07' to driver 'system'
[ 10.838517] pnp: Bound Device 00:07 to Driver system
[ 10.838522] device class 'mem': registering
[ 10.838527] CLASS: registering class device: ID = 'mem'
[ 10.838532] class_hotplug – name = mem
[ 10.838535] class_device_create_hotplug called for mem
[ 10.838709] CLASS: registering class device: ID = 'kmem'
[ 10.838714] class_hotplug – name = kmem
[ 10.838716] class_device_create_hotplug called for kmem
[ 10.838936] CLASS: registering class device: ID = 'null'
[ 10.838941] class_hotplug – name = null
[ 10.838943] class_device_create_hotplug called for null
[ 10.839147] CLASS: registering class device: ID = 'port'
[ 10.839152] class_hotplug – name = port
[ 10.839154] class_device_create_hotplug called for port
[ 10.839360] CLASS: registering class device: ID = 'zero'
[ 10.839367] class_hotplug – name = zero
[ 10.839369] class_device_create_hotplug called for zero
[ 10.839565] CLASS: registering class device: ID = 'full'
[ 10.839571] class_hotplug – name = full
[ 10.839573] class_device_create_hotplug called for full
[ 10.839778] CLASS: registering class device: ID = 'random'
[ 10.839784] class_hotplug – name = random
[ 10.839786] class_device_create_hotplug called for random
[ 10.840012] CLASS: registering class device: ID = 'urandom'
[ 10.840019] class_hotplug – name = urandom
[ 10.840021] class_device_create_hotplug called for urandom
[ 10.840229] CLASS: registering class device: ID = 'kmsg'
[ 10.840235] class_hotplug – name = kmsg
[ 10.840237] class_device_create_hotplug called for kmsg
[ 10.840464] bus type 'pcmcia' registered
[ 10.840498] PCI: Bridge: 0000:00:01.0
[ 10.840505] IO window: c000–cfff
[ 10.840509] MEM window: fc000000–fdffffff
[ 10.840513] PREFETCH window: f0000000–f7ffffff
[ 10.840521] PCI: Bus 3, cardbus bridge: 0000:02:01.0
[ 10.840524] IO window: 0000e000–0000e0ff
[ 10.840528] IO window: 0000e400–0000e4ff
[ 10.840533] PREFETCH window: 70000000–71ffffff
[ 10.840537] MEM window: 74000000–75ffffff
[ 10.840541] PCI: Bridge: 0000:00:1e.0
[ 10.840545] IO window: e000–efff
[ 10.840550] MEM window: fa000000–fbffffff
[ 10.840555] PREFETCH window: 70000000–71ffffff
[ 10.840572] PCI: Setting latency timer of device 0000:00:1e.0 to 64
[ 10.840587] acpi_bus-0200 [01] bus_set_power : Device is not power manageable
[ 10.840595] PCI: Enabling device 0000:02:01.0 (0000 -> 0003)
[ 10.841037] ACPI: PCI Interrupt Link [LNKD] enabled at IRQ 11
[ 10.841042] PCI: setting IRQ 11 as level-triggered
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Linux-Kernel: Re: [PATCH 0/13] Time: Generic Timeofday Subsystem (v B10)

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[ 10.841046] ACPI: PCI Interrupt 0000:02:01.0[A] -> Link [LNKD] -> GSI 11 (level, low) -> IRQ 11
[ 10.841056] Registering sysdev class '<NULL>'
[ 10.841061] Registering sys device 'i82590'
[ 10.841297] Registering sysdev class '<NULL>'
[ 10.841301] Registering sys device 'i82370'
[ 10.841524] apm: BIOS not found.
[ 10.841530] Registering sysdev class '<NULL>'
[ 10.841534] Registering sys device 'lapic0'
[ 10.841739] Registering sysdev class '<NULL>'
[ 10.853124] Registering sysdev class '<NULL>'
[ 10.853128] Registering sys device 'clocksource0'
[ 10.853299] Registering sysdev class '<NULL>'
[ 10.853307] Registering sys device 'global_clock_event0'
[ 10.853506] Registering sysdev class '<NULL>'
[ 10.853510] Registering sys device 'timeofday0'
[ 10.853730] audit: initializing netlink socket (disabled)
[ 10.853746] audit(1131979227.293:1): initialized
[ 10.853803] highmem bounce pool size: 64 pages
[ 10.853808] Total HugeTLB memory allocated, 0
[ 10.853870] VFS: Disk quotas dquot_6.5.1
[ 10.853891] Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
[ 10.853970] Installing knfsd (copyright (C) 1996 okir@monad.swb.de).
[ 10.854108] fuse init (API version 7.3)
[ 10.854122] CLASS: registering class device: ID = 'fuse'
[ 10.854132] class_hotplug - name = fuse
[ 10.854135] class_device_create_hotplug called for fuse
[ 10.854413] Initializing Cryptographic API
[ 10.854420] io scheduler noop registered
[ 10.854427] io scheduler anticipatory registered
[ 10.854432] io scheduler deadline registered
[ 10.854439] io scheduler cfq registered
[ 10.854535] pci_hotplug: PCI Hot Plug PCI Core version: 0.5
[ 10.854539] usbmon: debugfs is not available
[ 10.854544] bus pci: add driver ehci_hcd
[ 10.854784] pci: Matched Device 0000:00:1d.7 with Driver ehci_hcd
[ 10.854803] acpi_bus-0200 [01] bus_set_power : Device is not power manageable
[ 10.855248] ACPI: PCI Interrupt Link [LNKH] enabled at IRQ 11
[ 10.855253] ACPI: PCI Interrupt 0000:00:1d.7[D] -> Link [LNKH] -> GSI 11 (level, low) -> IRQ 11
[ 10.855267] PCI: Setting latency timer of device 0000:00:1d.7 to 64
[ 10.855270] ehci_hcd 0000:00:1d.7: EHCI Host Controller
[ 10.855283] ehci_hcd 0000:00:1d.7: debug port 1
[ 10.855297] CLASS: registering class device: ID = 'usb_host1'
[ 10.855306] class_hotplug - name = usb_host1
[ 10.855308] class_device_create_hotplug called for usb_host1
[ 10.855540] ehci_hcd 0000:00:1d.7: new USB bus registered, assigned bus number 1
[ 10.855550] ehci_hcd 0000:00:1d.7: irq 11, io mem 0xf8fffc00
[ 10.855562] PCI: cache line size of 32 is not supported by device 0000:00:1d.7
[ 10.859443] ehci_hcd 0000:00:1d.7: USB 2.0 initialized, EHCI 1.00, driver 10 Dec 2004
[ 10.859472] DEV: registering device: ID = 'usb1'
[ 10.859657] PM: Adding info for usb:usb1
[ 10.859662] bus usb: add device usb1
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[ 10.859664] bound device 'usb1' to driver 'usb'
[ 10.859684] DEV: registering device: ID = '1-0:1.0'
[ 10.859891] PM: Adding info for usb:1-0:1.0
[ 10.859895] bus usb: add device 1-0:1.0
[ 10.859898] usb: Matched Device 1-0:1.0 with Driver hub
[ 10.859901] hub 1-0:1.0: USB hub found
[ 10.859911] hub 1-0:1.0: 6 ports detected
[ 10.882789] Time: tsc clocksource has been installed.
[ 10.883786] Ktimers: Switched to high resolution mode CPU 0
[ 10.960680] bound device '1-0:1.0' to driver 'hub'
[ 10.960682] usb: Bound Device 1-0:1.0 to Driver hub
[ 10.960691] CLASS: registering class device: ID = 'usbdev1.1'
[ 10.960697] class_hotplug - name = usbdev1.1
[ 10.960700] class_device_create_hotplug called for usbdev1.1
[ 10.960936] bound device '0000:00:1d.7' to driver 'ehci_hcd'
[ 10.960939] pci: Bound Device 0000:00:1d.7 to Driver ehci_hcd
[ 10.960946] USB Universal Host Controller Interface driver v2.3
[ 10.960964] bus pci: add driver uhci_hcd
[ 10.961178] pci: Matched Device 0000:00:1d.0 with Driver uhci_hcd
[ 10.961571] ACPI: PCI Interrupt Link [LNKA] enabled at IRQ 11
[ 10.961577] ACPI: PCI Interrupt 0000:00:1d.0[A] -> Link [LNKA] -> GSI 11 (level, low) -> IRQ 11
[ 10.961589] PCI: Setting latency timer of device 0000:00:1d.0 to 64
[ 10.961592] uhci_hcd 0000:00:1d.0: UHCI Host Controller
[ 10.961611] CLASS: registering class device: ID = 'usb_host2'
[ 10.961622] class_hotplug - name = usb_host2
[ 10.961624] class_device_create_hotplug called for usb_host2
[ 10.961829] uhci_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 2
[ 10.961838] uhci_hcd 0000:00:1d.0: irq 11, io base 0x0000bf80
[ 10.961880] DEV: registering device: ID = 'usb2'
[ 10.962064] PM: Adding info for usb:usb2
[ 10.962068] bus usb: add device usb2
[ 10.962070] bound device 'usb2' to driver 'usb'
[ 10.962085] DEV: registering device: ID = '2-0:1.0'
[ 10.962294] PM: Adding info for usb:2-0:1.0
[ 10.962297] bus usb: add device 2-0:1.0
[ 10.962300] usb: Matched Device 2-0:1.0 with Driver hub
[ 10.962302] hub 2-0:1.0: USB hub found
[ 10.962311] hub 2-0:1.0: 2 ports detected
[ 11.062530] bound device '2-0:1.0' to driver 'hub'
[ 11.062533] usb: Bound Device 2-0:1.0 to Driver hub
[ 11.062541] CLASS: registering class device: ID = 'usbdev2.1'
[ 11.062547] class_hotplug - name = usbdev2.1
[ 11.062551] class_device_create_hotplug called for usbdev2.1
[ 11.062777] bound device '0000:00:1d.0' to driver 'uhci_hcd'
[ 11.062780] pci: Bound Device 0000:00:1d.0 to Driver uhci_hcd
[ 11.062782] pci: Matched Device 0000:00:1d.1 with Driver uhci_hcd
[ 11.062791] ACPI: PCI Interrupt 0000:00:1d.1[B] -> Link [LNKD] -> GSI 11 (level, low) -> IRQ 11
[ 11.062802] PCI: Setting latency timer of device 0000:00:1d.1 to 64
[ 11.062804] uhci_hcd 0000:00:1d.1: UHCI Host Controller
[ 11.062823] CLASS: registering class device: ID = 'usb_host3'
[ 11.062829] class_hotplug - name = usb_host3
```

```
[ 11.062831] class_device_create_hotplug called for usb_host3
[ 11.063050] uhci_hcd 0000:00:1d.1: new USB bus registered, assigned bus number 3
[ 11.063059] uhci_hcd 0000:00:1d.1: irq 11, io base 0x0000bf40
[ 11.063091] DEV: registering device: ID = 'usb3'
[ 11.063278] PM: Adding info for usb:usb3
[ 11.063281] bus usb: add device usb3
[ 11.063283] bound device 'usb3' to driver 'usb'
[ 11.063293] DEV: registering device: ID = '3-0:1.0'
[ 11.063496] PM: Adding info for usb:3-0:1.0
[ 11.063501] bus usb: add device 3-0:1.0
[ 11.063503] usb: Matched Device 3-0:1.0 with Driver hub
[ 11.063505] hub 3-0:1.0: USB hub found
[ 11.063515] hub 3-0:1.0: 2 ports detected
[ 11.163386] bound device '3-0:1.0' to driver 'hub'
[ 11.163388] usb: Bound Device 3-0:1.0 to Driver hub
[ 11.163397] CLASS: registering class device: ID = 'usbdev3.1'
[ 11.163402] class_hotplug - name = usbdev3.1
[ 11.163405] class_device_create_hotplug called for usbdev3.1
[ 11.163637] bound device '0000:00:1d.1' to driver 'uhci_hcd'
[ 11.163640] pci: Bound Device 0000:00:1d.1 to Driver uhci_hcd
[ 11.163642] pci: Matched Device 0000:00:1d.2 with Driver uhci_hcd
[ 11.164047] ACPI: PCI Interrupt Link [LNKC] enabled at IRQ 11
[ 11.164052] ACPI: PCI Interrupt 0000:00:1d.2[C] -> Link [LNKC] -> GSI 11 (level, low) -> IRQ 11
[ 11.164063] PCI: Setting latency timer of device 0000:00:1d.2 to 64
[ 11.164066] uhci_hcd 0000:00:1d.2: UHCI Host Controller
[ 11.164087] CLASS: registering class device: ID = 'usb_host4'
[ 11.164094] class_hotplug - name = usb_host4
[ 11.164096] class_device_create_hotplug called for usb_host4
[ 11.164336] uhci_hcd 0000:00:1d.2: new USB bus registered, assigned bus number 4
[ 11.164344] uhci_hcd 0000:00:1d.2: irq 11, io base 0x0000bf20
[ 11.164395] DEV: registering device: ID = 'usb4'
[ 11.164579] PM: Adding info for usb:usb4
[ 11.164583] bus usb: add device usb4
[ 11.164585] bound device 'usb4' to driver 'usb'
[ 11.164602] DEV: registering device: ID = '4-0:1.0'
[ 11.164815] PM: Adding info for usb:4-0:1.0
[ 11.164819] bus usb: add device 4-0:1.0
[ 11.164822] usb: Matched Device 4-0:1.0 with Driver hub
[ 11.164824] hub 4-0:1.0: USB hub found
[ 11.164833] hub 4-0:1.0: 2 ports detected
[ 11.265239] bound device '4-0:1.0' to driver 'hub'
[ 11.265241] usb: Bound Device 4-0:1.0 to Driver hub
[ 11.265250] CLASS: registering class device: ID = 'usbdev4.1'
[ 11.265255] class_hotplug - name = usbdev4.1
[ 11.265259] class_device_create_hotplug called for usbdev4.1
[ 11.265493] bound device '0000:00:1d.2' to driver 'uhci_hcd'
[ 11.265496] pci: Bound Device 0000:00:1d.2 to Driver uhci_hcd
[ 11.265507] bus usb: add driver hiddev
[ 11.265722] usbcore: registered new driver hiddev
[ 11.265728] bus usb: add driver usbhid
[ 11.265910] usbcore: registered new driver usbhid
```

Linux-Kernel: Re: [PATCH 0/13] Time: Generic Timeofday Subsystem (v B10)

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[ 11.265913] drivers/usb/input/hid-core.c: v2.6:USB HID core driver
[ 11.265923] bus type 'usb-serial' registered
[ 11.265930] bus usb: add driver usbserial
[ 11.266112] usbcore: registered new driver usbserial
[ 11.266118] bus usb-serial: add driver generic
[ 11.266310] drivers/usb/serial/usb-serial.c: USB Serial support registered for generic
[ 11.266317] bus usb: add driver usbserial_generic
[ 11.266496] usbcore: registered new driver usbserial_generic
[ 11.266500] drivers/usb/serial/usb-serial.c: USB Serial Driver core
[ 11.266504] bus usb-serial: add driver pl2303
[ 11.266526] drivers/usb/serial/usb-serial.c: USB Serial support registered for pl2303
[ 11.266531] bus usb: add driver pl2303
[ 11.266871] usbcore: registered new driver pl2303
[ 11.266875] drivers/usb/serial/pl2303.c: Prolific PL2303 USB to serial adaptor driver
[ 11.266882] bus pci: add driver radeonfb
[ 11.266909] pci: Matched Device 0000:01:00.0 with Driver radeonfb
[ 11.266911] radeonfb_pci_register BEGIN
[ 11.266925] acpi_bus-0200 [01] bus_set_power : Device is not power manageable
[ 11.266937] ACPI: PCI Interrupt 0000:01:00.0[A] -> Link [LNKA] -> GSI 11 (level, low) -> IRQ 11
[ 11.266956] radeonfb (0000:01:00.0): Found 131072k of DDR 128 bits wide videoram
[ 11.266982] radeonfb (0000:01:00.0): mapped 16384k videoram
[ 11.266988] radeonfb: Retrieved PLL infos from BIOS
[ 11.266992] radeonfb: Reference=27.00 MHz (RefDiv=6) Memory=445.00 Mhz, System=263.00 MHz
[ 11.266996] radeonfb: PLL min 20000 max 35000
[ 11.267025] DEV: registering device: ID = 'i2c-0'
[ 11.267032] PM: Adding info for No Bus:i2c-0
[ 11.267036] CLASS: registering class device: ID = 'i2c-0'
[ 11.267042] class_hotplug - name = i2c-0
[ 11.267390] i2c_adapter i2c-0: adapter [monid] registered
[ 11.267415] DEV: registering device: ID = 'i2c-1'
[ 11.267419] PM: Adding info for No Bus:i2c-1
[ 11.267422] CLASS: registering class device: ID = 'i2c-1'
[ 11.267427] class_hotplug - name = i2c-1
[ 11.267448] i2c_adapter i2c-1: adapter [dvi] registered
[ 11.267472] DEV: registering device: ID = 'i2c-2'
[ 11.267476] PM: Adding info for No Bus:i2c-2
[ 11.267483] CLASS: registering class device: ID = 'i2c-2'
[ 11.267488] class_hotplug - name = i2c-2
[ 11.267826] i2c_adapter i2c-2: adapter [vga] registered
[ 11.267851] DEV: registering device: ID = 'i2c-3'
[ 11.267855] PM: Adding info for No Bus:i2c-3
[ 11.267858] CLASS: registering class device: ID = 'i2c-3'
[ 11.267863] class_hotplug - name = i2c-3
[ 11.267884] i2c_adapter i2c-3: adapter [crt2] registered
[ 11.267889] 1 chips in connector info
[ 11.267893] - chip 1 has 2 connectors
[ 11.267896] * connector 0 of type 3 (DVI-I) : 3201
[ 11.267899] * connector 1 of type 2 (CRT) : 2320
[ 11.267902] Starting monitor auto detection...
[ 11.340128] i2c_adapter i2c-0: master_xfer[0] W, addr=0x50, len=1
[ 11.340131] i2c_adapter i2c-0: master_xfer[1] R, addr=0x50, len=128
```

```
[ 11.460953] i2c_adapter i2c-0: master_xfer[0] W, addr=0x50, len=1
[ 11.460955] i2c_adapter i2c-0: master_xfer[1] R, addr=0x50, len=128
[ 11.581779] i2c_adapter i2c-0: master_xfer[0] W, addr=0x50, len=1
[ 11.581781] i2c_adapter i2c-0: master_xfer[1] R, addr=0x50, len=128
[ 11.629712] radeonfb: I2C (port 1) ... not found
[ 11.702605] i2c_adapter i2c-1: master_xfer[0] W, addr=0x50, len=1
[ 11.702607] i2c_adapter i2c-1: master_xfer[1] R, addr=0x50, len=128
[ 11.823430] i2c_adapter i2c-1: master_xfer[0] W, addr=0x50, len=1
[ 11.823432] i2c_adapter i2c-1: master_xfer[1] R, addr=0x50, len=128
[ 11.944256] i2c_adapter i2c-1: master_xfer[0] W, addr=0x50, len=1
[ 11.944258] i2c_adapter i2c-1: master_xfer[1] R, addr=0x50, len=128
[ 11.992189] radeonfb: I2C (port 2) ... not found
[ 12.065082] i2c_adapter i2c-2: master_xfer[0] W, addr=0x50, len=1
[ 12.065084] i2c_adapter i2c-2: master_xfer[1] R, addr=0x50, len=128
[ 12.185908] i2c_adapter i2c-2: master_xfer[0] W, addr=0x50, len=1
[ 12.185910] i2c_adapter i2c-2: master_xfer[1] R, addr=0x50, len=128
[ 12.306733] i2c_adapter i2c-2: master_xfer[0] W, addr=0x50, len=1
[ 12.306735] i2c_adapter i2c-2: master_xfer[1] R, addr=0x50, len=128
[ 12.354666] radeonfb: I2C (port 3) ... not found
[ 12.561368] radeonfb: I2C (port 4) ... not found
[ 12.634261] i2c_adapter i2c-1: master_xfer[0] W, addr=0x50, len=1
[ 12.634263] i2c_adapter i2c-1: master_xfer[1] R, addr=0x50, len=128
[ 12.755087] i2c_adapter i2c-1: master_xfer[0] W, addr=0x50, len=1
[ 12.755089] i2c_adapter i2c-1: master_xfer[1] R, addr=0x50, len=128
[ 12.875913] i2c_adapter i2c-1: master_xfer[0] W, addr=0x50, len=1
[ 12.875915] i2c_adapter i2c-1: master_xfer[1] R, addr=0x50, len=128
[ 12.923846] radeonfb: I2C (port 2) ... not found
[ 13.130547] radeonfb: I2C (port 4) ... not found
[ 13.130550] Non-DDC laptop panel detected
[ 13.203441] i2c_adapter i2c-2: master_xfer[0] W, addr=0x50, len=1
[ 13.203443] i2c_adapter i2c-2: master_xfer[1] R, addr=0x50, len=128
[ 13.324266] i2c_adapter i2c-2: master_xfer[0] W, addr=0x50, len=1
[ 13.324268] i2c_adapter i2c-2: master_xfer[1] R, addr=0x50, len=128
[ 13.445092] i2c_adapter i2c-2: master_xfer[0] W, addr=0x50, len=1
[ 13.445094] i2c_adapter i2c-2: master_xfer[1] R, addr=0x50, len=128
[ 13.493025] radeonfb: I2C (port 3) ... not found
[ 13.699726] radeonfb: I2C (port 4) ... not found
[ 13.700734] radeonfb: Monitor 1 type LCD found
[ 13.700737] radeonfb: Monitor 2 type no found
[ 13.700740] radeonfb: panel ID string: W4554O1WU1
[ 13.700741]
[ 13.700745] radeonfb: detected LVDS panel size from BIOS: 1920x1200
[ 13.700748] BIOS provided panel power delay: 1000
[ 13.700751] radeonfb: BIOS provided dividers will be used
[ 13.700753] ref_divider = 9
[ 13.700755] post_divider = 0
[ 13.700757] fbk_divider = 36
[ 13.700759] Scanning BIOS table ...
[ 13.700762] 320 x 350
[ 13.700764] 320 x 400
[ 13.700766] 320 x 400
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[ 13.700768] 320 x 480
[ 13.700769] 400 x 600
[ 13.700771] 512 x 384
[ 13.700773] 640 x 350
[ 13.700775] 640 x 400
[ 13.700777] 640 x 475
[ 13.700779] 640 x 480
[ 13.700781] 720 x 480
[ 13.700783] 720 x 576
[ 13.700785] 800 x 600
[ 13.700787] 848 x 480
[ 13.700789] 1024 x 768
[ 13.700791] 1280 x 1024
[ 13.700793] 1280 x 768
[ 13.700796] 1280 x 800
[ 13.700797] 1440 x 900
[ 13.700800] 1600 x 1200
[ 13.700802] 1680 x 1050
[ 13.700803] 1920 x 1200
[ 13.700806] Found panel in BIOS table:
[ 13.700808] hblank: 240
[ 13.700810] hOver_plus: 48
[ 13.700812] hSync_width: 32
[ 13.700814] vblank: 50
[ 13.700816] vOver_plus: 1
[ 13.700817] vSync_width: 3
[ 13.700819] clock: 16200
[ 13.700822] Setting up default mode based on panel info
[ 13.700854] radeonfb: Dynamic Clock Power Management enabled
[ 13.700858] CLASS: registering class device: ID = 'fb0'
[ 13.700865] class_hotplug - name = fb0
[ 13.700868] class_device_create_hotplug called for fb0
[ 13.701141] hStart = 1968, hEnd = 2000, hTotal = 2160
[ 13.701143] vStart = 1201, vEnd = 1204, vTotal = 1250
[ 13.701145] h_total_disp = 0xef010d hsync_strt_wid = 0x407aa
[ 13.701147] v_total_disp = 0x4af04e1 vsync_strt_wid = 0x304b0
[ 13.701148] pixclock = 6172
[ 13.701149] freq = 16202
[ 13.788821] Console: switching to colour frame buffer device 240x75
[ 13.791062] radeonfb (0000:01:00.0): ATI Radeon NP
[ 13.791140] radeonfb_pci_register END
[ 13.791190] bound device '0000:01:00.0' to driver 'radeonfb'
[ 13.791196] pci: Bound Device 0000:01:00.0 to Driver radeonfb
[ 13.791207] bus platform: add driver vesafb
[ 13.791555] Registering platform device 'vesafb.0'. Parent at platform
[ 13.791557] DEV: registering device: ID = 'vesafb.0'
[ 13.791743] PM: Adding info for platform:vesafb.0
[ 13.791748] bus platform: add device vesafb.0
[ 13.791749] platform: Matched Device vesafb.0 with Driver vesafb
[ 13.791754] vesafb: cannot reserve video memory at 0xf0000000
[ 13.791834] vesafb: framebuffer at 0xf0000000, mapped to 0xf9900000, using 5120k, total 131008k
```

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[ 13.791932] vesafb: mode is 1280x1024x16, linelength=2560, pages=50
[ 13.792010] vesafb: protected mode interface info at c000:5aa2
[ 13.792083] vesafb: scrolling: redraw
[ 13.792133] vesafb: Truecolor: size=0:5:6:5, shift=0:11:5:0
[ 13.792204] vesafb: Mode is VGA compatible
[ 13.792265] CLASS: registering class device: ID = 'fb1'
[ 13.792272] class_hotplug - name = fb1
[ 13.792275] class_device_create_hotplug called for fb1
[ 13.792481] fb1: VESA VGA frame buffer device
[ 13.792538] bound device 'vesafb.0' to driver 'vesafb'
[ 13.792541] platform: Bound Device vesafb.0 to Driver vesafb
[ 13.793000] ACPI: AC Adapter [AC] (on-line)
[ 14.074210] ACPI: Battery Slot [BAT0] (battery present)
[ 14.074294] ACPI: Lid Switch [LID]
[ 14.074350] ACPI: Power Button (CM) [PBTN]
[ 14.074410] ACPI: Sleep Button (CM) [SBTN]
[ 14.076230] ACPI: Video Device [VID] (multi-head: yes rom: no post: no)
[ 14.076396] Using specific hotkey driver
[ 14.076451] Registering sysdev class '<NULL>'
[ 14.076456] Registering sys device 'irqrouter0'
[ 14.077362] ACPI: CPU0 (power states: C1[C1] C2[C2] C3[C3] C4[C3])
[ 14.077544] ACPI: Processor [CPU0] (supports 8 throttling states)
[ 14.081717] ACPI: Thermal Zone [THM] (49 C)
[ 14.081794] CLASS: registering class device: ID = 'tty'
[ 14.081803] class_hotplug - name = tty
[ 14.081805] class_device_create_hotplug called for tty
[ 14.081999] CLASS: registering class device: ID = 'console'
[ 14.082004] class_hotplug - name = console
[ 14.082006] class_device_create_hotplug called for console
[ 14.082200] CLASS: registering class device: ID = 'ptmx'
[ 14.082205] class_hotplug - name = ptmx
[ 14.082206] class_device_create_hotplug called for ptmx
[ 14.082391] CLASS: registering class device: ID = 'tty0'
[ 14.082396] class_hotplug - name = tty0
[ 14.082397] class_device_create_hotplug called for tty0
[ 14.082581] device class 'vc': registering
[ 14.082586] CLASS: registering class device: ID = 'vcs'
[ 14.082590] class_hotplug - name = vcs
[ 14.082592] class_device_create_hotplug called for vcs
[ 14.082779] CLASS: registering class device: ID = 'vcsa'
[ 14.082784] class_hotplug - name = vcса
[ 14.082785] class_device_create_hotplug called for vcса
[ 14.082972] CLASS: registering class device: ID = 'tty1'
[ 14.082977] class_hotplug - name = tty1
[ 14.082978] class_device_create_hotplug called for tty1
[ 14.083156] CLASS: registering class device: ID = 'tty2'
[ 14.083160] class_hotplug - name = tty2
[ 14.083162] class_device_create_hotplug called for tty2
[ 14.083354] CLASS: registering class device: ID = 'tty3'
[ 14.083359] class_hotplug - name = tty3
[ 14.083360] class_device_create_hotplug called for tty3
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[ 14.083543] CLASS: registering class device: ID = 'tty4'
[ 14.083547] class_hotplug - name = tty4
[ 14.083549] class_device_create_hotplug called for tty4
[ 14.083734] CLASS: registering class device: ID = 'tty5'
[ 14.083739] class_hotplug - name = tty5
[ 14.083741] class_device_create_hotplug called for tty5
[ 14.083931] CLASS: registering class device: ID = 'tty6'
[ 14.083939] class_hotplug - name = tty6
[ 14.083941] class_device_create_hotplug called for tty6
[ 14.084136] CLASS: registering class device: ID = 'tty7'
[ 14.084140] class_hotplug - name = tty7
[ 14.084142] class_device_create_hotplug called for tty7
[ 14.084331] CLASS: registering class device: ID = 'tty8'
[ 14.084335] class_hotplug - name = tty8
[ 14.084337] class_device_create_hotplug called for tty8
[ 14.084525] CLASS: registering class device: ID = 'tty9'
[ 14.084529] class_hotplug - name = tty9
[ 14.084531] class_device_create_hotplug called for tty9
[ 14.084713] CLASS: registering class device: ID = 'tty10'
[ 14.084717] class_hotplug - name = tty10
[ 14.084719] class_device_create_hotplug called for tty10
[ 14.084909] CLASS: registering class device: ID = 'tty11'
[ 14.084913] class_hotplug - name = tty11
[ 14.084915] class_device_create_hotplug called for tty11
[ 14.085132] CLASS: registering class device: ID = 'tty12'
[ 14.085138] class_hotplug - name = tty12
[ 14.085140] class_device_create_hotplug called for tty12
[ 14.085337] CLASS: registering class device: ID = 'tty13'
[ 14.085341] class_hotplug - name = tty13
[ 14.085343] class_device_create_hotplug called for tty13
[ 14.085530] CLASS: registering class device: ID = 'tty14'
[ 14.085536] class_hotplug - name = tty14
[ 14.085538] class_device_create_hotplug called for tty14
[ 14.085733] CLASS: registering class device: ID = 'tty15'
[ 14.085739] class_hotplug - name = tty15
[ 14.085741] class_device_create_hotplug called for tty15
[ 14.085929] CLASS: registering class device: ID = 'tty16'
[ 14.085934] class_hotplug - name = tty16
[ 14.085935] class_device_create_hotplug called for tty16
[ 14.086152] CLASS: registering class device: ID = 'tty17'
[ 14.086157] class_hotplug - name = tty17
[ 14.086158] class_device_create_hotplug called for tty17
[ 14.086368] CLASS: registering class device: ID = 'tty18'
[ 14.086378] class_hotplug - name = tty18
[ 14.086380] class_device_create_hotplug called for tty18
[ 14.086573] CLASS: registering class device: ID = 'tty19'
[ 14.086577] class_hotplug - name = tty19
[ 14.086579] class_device_create_hotplug called for tty19
[ 14.086773] CLASS: registering class device: ID = 'tty20'
[ 14.086780] class_hotplug - name = tty20
[ 14.086782] class_device_create_hotplug called for tty20
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[ 14.086984] CLASS: registering class device: ID = 'tty21'  
[ 14.086989] class_hotplug - name = tty21  
[ 14.086991] class_device_create_hotplug called for tty21  
[ 14.087233] CLASS: registering class device: ID = 'tty22'  
[ 14.087238] class_hotplug - name = tty22  
[ 14.087240] class_device_create_hotplug called for tty22  
[ 14.087437] CLASS: registering class device: ID = 'tty23'  
[ 14.087443] class_hotplug - name = tty23  
[ 14.087444] class_device_create_hotplug called for tty23  
[ 14.087654] CLASS: registering class device: ID = 'tty24'  
[ 14.087660] class_hotplug - name = tty24  
[ 14.087662] class_device_create_hotplug called for tty24  
[ 14.087879] CLASS: registering class device: ID = 'tty25'  
[ 14.087886] class_hotplug - name = tty25  
[ 14.087888] class_device_create_hotplug called for tty25  
[ 14.088117] CLASS: registering class device: ID = 'tty26'  
[ 14.088124] class_hotplug - name = tty26  
[ 14.088126] class_device_create_hotplug called for tty26  
[ 14.088351] CLASS: registering class device: ID = 'tty27'  
[ 14.088357] class_hotplug - name = tty27  
[ 14.088358] class_device_create_hotplug called for tty27  
[ 14.088571] CLASS: registering class device: ID = 'tty28'  
[ 14.088577] class_hotplug - name = tty28  
[ 14.088579] class_device_create_hotplug called for tty28  
[ 14.088774] CLASS: registering class device: ID = 'tty29'  
[ 14.088782] class_hotplug - name = tty29  
[ 14.088783] class_device_create_hotplug called for tty29  
[ 14.088994] CLASS: registering class device: ID = 'tty30'  
[ 14.089004] class_hotplug - name = tty30  
[ 14.089006] class_device_create_hotplug called for tty30  
[ 14.089244] CLASS: registering class device: ID = 'tty31'  
[ 14.089252] class_hotplug - name = tty31  
[ 14.089254] class_device_create_hotplug called for tty31  
[ 14.089474] CLASS: registering class device: ID = 'tty32'  
[ 14.089481] class_hotplug - name = tty32  
[ 14.089483] class_device_create_hotplug called for tty32  
[ 14.089693] CLASS: registering class device: ID = 'tty33'  
[ 14.089699] class_hotplug - name = tty33  
[ 14.089701] class_device_create_hotplug called for tty33  
[ 14.089928] CLASS: registering class device: ID = 'tty34'  
[ 14.089935] class_hotplug - name = tty34  
[ 14.089937] class_device_create_hotplug called for tty34  
[ 14.090180] CLASS: registering class device: ID = 'tty35'  
[ 14.090187] class_hotplug - name = tty35  
[ 14.090189] class_device_create_hotplug called for tty35  
[ 14.090406] CLASS: registering class device: ID = 'tty36'  
[ 14.090412] class_hotplug - name = tty36  
[ 14.090413] class_device_create_hotplug called for tty36  
[ 14.090649] CLASS: registering class device: ID = 'tty37'  
[ 14.090655] class_hotplug - name = tty37  
[ 14.090657] class_device_create_hotplug called for tty37
```

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[ 14.090884] CLASS: registering class device: ID = 'tty38'  
[ 14.090891] class_hotplug - name = tty38  
[ 14.090893] class_device_create_hotplug called for tty38  
[ 14.091116] CLASS: registering class device: ID = 'tty39'  
[ 14.091124] class_hotplug - name = tty39  
[ 14.091126] class_device_create_hotplug called for tty39  
[ 14.091367] CLASS: registering class device: ID = 'tty40'  
[ 14.091374] class_hotplug - name = tty40  
[ 14.091376] class_device_create_hotplug called for tty40  
[ 14.091615] CLASS: registering class device: ID = 'tty41'  
[ 14.091622] class_hotplug - name = tty41  
[ 14.091624] class_device_create_hotplug called for tty41  
[ 14.091846] CLASS: registering class device: ID = 'tty42'  
[ 14.091859] class_hotplug - name = tty42  
[ 14.091861] class_device_create_hotplug called for tty42  
[ 14.092115] CLASS: registering class device: ID = 'tty43'  
[ 14.092129] class_hotplug - name = tty43  
[ 14.092131] class_device_create_hotplug called for tty43  
[ 14.092366] CLASS: registering class device: ID = 'tty44'  
[ 14.092375] class_hotplug - name = tty44  
[ 14.092377] class_device_create_hotplug called for tty44  
[ 14.092606] CLASS: registering class device: ID = 'tty45'  
[ 14.092615] class_hotplug - name = tty45  
[ 14.092617] class_device_create_hotplug called for tty45  
[ 14.092845] CLASS: registering class device: ID = 'tty46'  
[ 14.092853] class_hotplug - name = tty46  
[ 14.092855] class_device_create_hotplug called for tty46  
[ 14.093085] CLASS: registering class device: ID = 'tty47'  
[ 14.093093] class_hotplug - name = tty47  
[ 14.093095] class_device_create_hotplug called for tty47  
[ 14.093331] CLASS: registering class device: ID = 'tty48'  
[ 14.093338] class_hotplug - name = tty48  
[ 14.093340] class_device_create_hotplug called for tty48  
[ 14.093564] CLASS: registering class device: ID = 'tty49'  
[ 14.093571] class_hotplug - name = tty49  
[ 14.093572] class_device_create_hotplug called for tty49  
[ 14.093809] CLASS: registering class device: ID = 'tty50'  
[ 14.093817] class_hotplug - name = tty50  
[ 14.093819] class_device_create_hotplug called for tty50  
[ 14.094050] CLASS: registering class device: ID = 'tty51'  
[ 14.094058] class_hotplug - name = tty51  
[ 14.094060] class_device_create_hotplug called for tty51  
[ 14.094306] CLASS: registering class device: ID = 'tty52'  
[ 14.094315] class_hotplug - name = tty52  
[ 14.094317] class_device_create_hotplug called for tty52  
[ 14.094547] CLASS: registering class device: ID = 'tty53'  
[ 14.094555] class_hotplug - name = tty53  
[ 14.094557] class_device_create_hotplug called for tty53  
[ 14.094788] CLASS: registering class device: ID = 'tty54'  
[ 14.094802] class_hotplug - name = tty54  
[ 14.094804] class_device_create_hotplug called for tty54
```

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[ 14.095045] CLASS: registering class device: ID = 'tty55'
[ 14.095053] class_hotplug - name = tty55
[ 14.095055] class_device_create_hotplug called for tty55
[ 14.095303] CLASS: registering class device: ID = 'tty56'
[ 14.095310] class_hotplug - name = tty56
[ 14.095312] class_device_create_hotplug called for tty56
[ 14.095534] CLASS: registering class device: ID = 'tty57'
[ 14.095543] class_hotplug - name = tty57
[ 14.095545] class_device_create_hotplug called for tty57
[ 14.095783] CLASS: registering class device: ID = 'tty58'
[ 14.095793] class_hotplug - name = tty58
[ 14.095795] class_device_create_hotplug called for tty58
[ 14.096016] CLASS: registering class device: ID = 'tty59'
[ 14.096025] class_hotplug - name = tty59
[ 14.096026] class_device_create_hotplug called for tty59
[ 14.096279] CLASS: registering class device: ID = 'tty60'
[ 14.096288] class_hotplug - name = tty60
[ 14.096290] class_device_create_hotplug called for tty60
[ 14.096511] CLASS: registering class device: ID = 'tty61'
[ 14.096521] class_hotplug - name = tty61
[ 14.096523] class_device_create_hotplug called for tty61
[ 14.096757] CLASS: registering class device: ID = 'tty62'
[ 14.096769] class_hotplug - name = tty62
[ 14.096771] class_device_create_hotplug called for tty62
[ 14.096998] CLASS: registering class device: ID = 'tty63'
[ 14.097009] class_hotplug - name = tty63
[ 14.097010] class_device_create_hotplug called for tty63
[ 14.097262] device class 'printer': registering
[ 14.097427] lp: driver loaded but no devices found
[ 14.097516] CLASS: registering class device: ID = 'rtc'
[ 14.097525] class_hotplug - name = rtc
[ 14.097527] class_device_create_hotplug called for rtc
[ 14.097737] Real Time Clock Driver v1.12
[ 14.097796] CLASS: registering class device: ID = 'hpet'
[ 14.097808] class_hotplug - name = hpet
[ 14.097810] class_device_create_hotplug called for hpet
[ 14.098048] CLASS: registering class device: ID = 'watchdog'
[ 14.098055] class_hotplug - name = watchdog
[ 14.098056] class_device_create_hotplug called for watchdog
[ 14.098310] Software Watchdog Timer: 0.07 initialized. soft_noboot=0 soft_margin=60 sec (nowayout= 0)
[ 14.098418] Linux agpgart interface v0.101 (c) Dave Jones
[ 14.098489] bus pci: add driver agpgart-ati
[ 14.098748] device class 'drm': registering
[ 14.098762] [drm] Initialized drm 1.0.0 20040925
[ 14.098826] Hangcheck: starting hangcheck timer 0.9.0 (tick is 180 seconds, margin is 60 seconds).
[ 14.098932] Hangcheck: Using monotonic_clock().
[ 14.099010] bus type 'serio' registered
[ 14.099014] bus pnp: add driver i8042 kbd
[ 14.099257] pnp: Matched Device 00:04 with Driver i8042 kbd
[ 14.099261] bound device '00:04' to driver 'i8042 kbd'
[ 14.099264] pnp: Bound Device 00:04 to Driver i8042 kbd
```

Linux-Kernel: Re: [PATCH 0/13] Time: Generic Timeofday Subsystem (v B10)

```
[ 14.099271] bus pnp: add driver i8042 aux
[ 14.099454] pnp: Matched Device 00:03 with Driver i8042 aux
[ 14.099458] bound device '00:03' to driver 'i8042 aux'
[ 14.099461] pnp: Bound Device 00:03 to Driver i8042 aux
[ 14.099469] PNP: PS/2 Controller [PNP0303:KBC,PNP0f13:PS2M] at 0x60,0x64 irq 1,12
[ 14.099937] bus platform: add driver i8042
[ 14.100131] Registering platform device 'i8042'. Parent at platform
[ 14.100133] DEV: registering device: ID = 'i8042'
[ 14.100179] PM: Adding info for platform:i8042
[ 14.100186] bus platform: add device i8042
[ 14.100188] platform: Matched Device i8042 with Driver i8042
[ 14.100190] bound device 'i8042' to driver 'i8042'
[ 14.100192] platform: Bound Device i8042 to Driver i8042
[ 14.103158] serio: i8042 AUX port at 0x60,0x64 irq 12
[ 14.103224] DEV: registering device: ID = 'serio0'
[ 14.103604] serio: i8042 KBD port at 0x60,0x64 irq 1
[ 14.103673] Serial: 8250/16550 driver $Revision: 1.90 $ 4 ports, IRQ sharing enabled
[ 14.103773] Registering platform device 'serial8250'. Parent at platform
[ 14.103775] DEV: registering device: ID = 'serial8250'
[ 14.103966] PM: Adding info for serio:serio0
[ 14.103970] bus serio: add device serio0
[ 14.103975] DEV: registering device: ID = 'serio1'
[ 14.104202] PM: Adding info for platform:serial8250
[ 14.104206] bus platform: add device serial8250
[ 14.104223] CLASS: registering class device: ID = 'ttyS0'
[ 14.104236] class_hotplug - name = ttyS0
[ 14.104239] class_device_create_hotplug called for ttyS0
[ 14.104435] PM: Adding info for serio:serio1
[ 14.104439] bus serio: add device serio1
[ 14.104651] CLASS: registering class device: ID = 'ttyS1'
[ 14.104661] class_hotplug - name = ttyS1
[ 14.104664] class_device_create_hotplug called for ttyS1
[ 14.104902] CLASS: registering class device: ID = 'ttyS2'
[ 14.104913] class_hotplug - name = ttyS2
[ 14.104915] class_device_create_hotplug called for ttyS2
[ 14.105165] CLASS: registering class device: ID = 'ttyS3'
[ 14.105176] class_hotplug - name = ttyS3
[ 14.105180] class_device_create_hotplug called for ttyS3
[ 14.105411] bus platform: add driver serial8250
[ 14.105640] platform: Matched Device serial8250 with Driver serial8250
[ 14.105643] bound device 'serial8250' to driver 'serial8250'
[ 14.105645] platform: Bound Device serial8250 to Driver serial8250
[ 14.105649] bus pnp: add driver serial
[ 14.106112] bus pci: add driver serial
[ 14.106159] pci: Matched Device 0000:00:1f.6 with Driver serial
[ 14.106179] acpi_bus-0200 [07] bus_set_power : Device is not power manageable
[ 14.106770] ACPI: PCI Interrupt Link [LNKB] enabled at IRQ 7
[ 14.106850] PCI: setting IRQ 7 as level-triggered
[ 14.106914] ACPI: PCI Interrupt 0000:00:1f.6[B] -> Link [LNKB] -> GSI 7 (level, low) -> IRQ 7
[ 14.107059] ACPI: PCI interrupt for device 0000:00:1f.6 disabled
[ 14.107163] bus pnp: add driver parport_pc
```

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[ 14.107598] bus pci: add driver parport_pc
[ 14.107625] device class 'firmware': registering
[ 14.111111] RAMDISK driver initialized: 16 RAM disks of 16384K size 1024 blocksize
[ 14.111262] CLASS: registering class device: ID = 'lo'
[ 14.111269] class_hotplug - name = lo
[ 14.111526] bus pci: add driver b44
[ 14.111753] pci: Matched Device 0000:02:00.0 with Driver b44
[ 14.111756] b44.c:v0.96 (Nov 8, 2005)
[ 14.111838] ACPI: PCI Interrupt 0000:02:00.0[A] -> Link [LNKC] -> GSI 11 (level, low) -> IRQ 11
[ 14.120362] CLASS: registering class device: ID = 'eth0'
[ 14.120371] class_hotplug - name = eth0
[ 14.120813] eth0: Broadcom 4400 10/100BaseT Ethernet 00:11:43:5e:b3:ef
[ 14.126145] bound device '0000:02:00.0' to driver 'b44'
[ 14.126149] pci: Bound Device 0000:02:00.0 to Driver b44
[ 14.126155] netconsole: not configured, aborting
[ 14.131438] Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
[ 14.136997] ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
[ 14.142621] bus type 'ide' registered
[ 14.142647] ICH4: IDE controller at PCI slot 0000:00:1f.1
[ 14.148242] PCI: Enabling device 0000:00:1f.1 (0005 -> 0007)
[ 14.153828] ACPI: PCI Interrupt 0000:00:1f.1[A] -> Link [LNKA] -> GSI 11 (level, low) -> IRQ 11
[ 14.159691] ICH4: chipset revision 1
[ 14.165567] ICH4: not 100% native mode: will probe irqs later
[ 14.171525] ide0: BM-DMA at 0xbfa0-0xbfa7, BIOS settings: hda:DMA, hdb:pio
[ 14.177573] ide1: BM-DMA at 0xbfa8-0xbfaf, BIOS settings: hdc:DMA, hdd:pio
[ 14.183639] Probing IDE interface ide0...
[ 14.357130] Falling back to C3 safe TSC
[ 14.424299] check_periodic_interval: Long interval! 190982348.
[ 14.430431] Something may be blocking interrupts.
[ 14.471403] hda: HTS726060M9AT00, ATA DISK drive
[ 14.477582] DEV: registering device: ID = 'ide0'
[ 14.477591] PM: Adding info for No Bus:ide0
[ 15.116214] ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
[ 15.122429] DEV: registering device: ID = '0.0'
[ 15.122735] PM: Adding info for ide:0.0
[ 15.122739] bus ide: add device 0.0
[ 15.122744] Probing IDE interface ide1...
[ 15.825205] hdc: _NEC DVD+/-RW ND-6500A, ATAPI CD/DVD-ROM drive
[ 15.831543] DEV: registering device: ID = 'ide1'
[ 15.831548] PM: Adding info for No Bus:ide1
[ 16.486315] ide1 at 0x170-0x177,0x376 on irq 15
[ 16.492932] DEV: registering device: ID = '1.0'
[ 16.493223] PM: Adding info for ide:1.0
[ 16.493229] bus ide: add device 1.0
[ 16.493250] bus pci: add driver PIIX_IDE
[ 16.493450] pci: Matched Device 0000:00:1f.1 with Driver PIIX_IDE
[ 16.493453] bound device '0000:00:1f.1' to driver 'PIIX_IDE'
[ 16.493458] pci: Bound Device 0000:00:1f.1 to Driver PIIX_IDE
[ 16.493463] bus pci: add driver PCI_IDE
[ 16.493642] bus pnp: add driver ide
[ 16.493832] bus ide: add driver ide-disk
```

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```
[ 16.494016] ide: Matched Device 0.0 with Driver ide-disk
[ 16.494031] hda: max request size: 1024KiB
[ 16.514499] hda: 117210240 sectors (60011 MB) w/7877KiB Cache, CHS=16383/255/63, UDMA(100)
[ 16.521373] hda: cache flushes supported
[ 16.528108] hda: hda1 hda2 hda3
[ 16.543177] bound device '0.0' to driver 'ide-disk'
[ 16.543180] ide: Bound Device 0.0 to Driver ide-disk
[ 16.543182] ide: Matched Device 1.0 with Driver ide-disk
[ 16.543185] bus ide: add driver ide-cdrom
[ 16.543394] ide: Matched Device 1.0 with Driver ide-cdrom
[ 16.561013] hdc: ATAPI 24X DVD-ROM DVD-R CD-R/RW drive, 2048kB Cache, UDMA(33)
[ 16.567759] Uniform CD-ROM driver Revision: 3.20
[ 16.600271] bound device '1.0' to driver 'ide-cdrom'
[ 16.600274] ide: Bound Device 1.0 to Driver ide-cdrom
[ 16.600288] bus type 'ieee1394' registered
[ 16.600291] device class 'ieee1394_host': registering
[ 16.600296] device class 'ieee1394_protocol': registering
[ 16.600303] device class 'ieee1394_node': registering
[ 16.600306] device class 'ieee1394': registering
[ 16.600310] bus pci: add driver ohci1394
[ 16.600513] pci: Matched Device 0000:02:01.1 with Driver ohci1394
[ 16.600516] ohci1394: $Rev: 1313 $ Ben Collins <bcollins@debian.org>
[ 16.607174] acpi_bus-0200 [07] bus_set_power : Device is not power manageable
[ 16.613933] ACPI: PCI Interrupt 0000:02:01.1[B] -> Link [LNKC] -> GSI 11 (level, low) -> IRQ 11
[ 16.620759] DEV: registering device: ID = 'fw-host0'
[ 16.620953] PM: Adding info for ieee1394:fw-host0
[ 16.620957] bus ieee1394: add device fw-host0
[ 16.620961] CLASS: registering class device: ID = 'fw-host0'
[ 16.620966] class_hotplug - name = fw-host0
[ 16.674249] ohci1394: fw-host0: OHCI-1394 1.1 (PCI): IRQ=[11] MMIO=[faffd800-faffdfff] Max
Packet=[2048]
[ 16.688155] bound device '0000:02:01.1' to driver 'ohci1394'
[ 16.688158] pci: Bound Device 0000:02:01.1 to Driver ohci1394
[ 16.688166] CLASS: registering class device: ID = 'video1394-0'
[ 16.688174] class_hotplug - name = video1394-0
[ 16.688176] class_device_create_hotplug called for video1394-0
[ 16.688383] bus ieee1394: add driver video1394
[ 16.688586] video1394: Installed video1394 module
[ 16.695770] bus pci: add driver yenta_cardbus
[ 16.695964] pci: Matched Device 0000:02:01.0 with Driver yenta_cardbus
[ 16.695978] ACPI: PCI Interrupt 0000:02:01.0[A] -> Link [LNKD] -> GSI 11 (level, low) -> IRQ 11
[ 16.703004] Yenta: CardBus bridge found at 0000:02:01.0 [1028:01a2]
[ 16.835509] Yenta: ISA IRQ mask 0x0438, PCI irq 11
[ 16.842535] Socket status: 30000006
[ 16.849551] pcmcia: parent PCI bridge I/O window: 0xe000 - 0xefff
[ 16.856572] pcmcia: parent PCI bridge Memory window: 0xfa000000 - 0xfbffffff
[ 16.863817] pcmcia: parent PCI bridge Memory window: 0x70000000 - 0x71ffffff
[ 16.870841] CLASS: registering class device: ID = 'pcmcia_socket0'
[ 16.870849] class_hotplug - name = pcmcia_socket0
[ 17.132060] bound device '0000:02:01.0' to driver 'yenta_cardbus'
[ 17.132062] pci: Bound Device 0000:02:01.0 to Driver yenta_cardbus
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[ 17.132068] CLASS: registering class device: ID = 'mice'
[ 17.132075] class_hotplug - name = mice
[ 17.132077] class_device_create_hotplug called for mice
[ 17.132246] mice: PS/2 mouse device common for all mice
[ 17.139212] bus serio: add driver atkbd
[ 17.139238] serio: Matched Device serio0 with Driver atkbd
[ 17.140008] input: PC Speaker as /class/input/input0
[ 17.146986] CLASS: registering class device: ID = 'input0'
[ 17.146991] class_hotplug - name = input0
[ 17.147179] CLASS: registering class device: ID = 'event0'
[ 17.147188] class_hotplug - name = event0
[ 17.147190] class_device_create_hotplug called for event0
[ 17.147455] serio: Matched Device serio1 with Driver atkbd
[ 17.147986] I2O subsystem v1.288
[ 17.154929] device class 'i2o_controller': registering
[ 17.154935] i2o: max drivers = 8
[ 17.161877] bus type 'i2o' registered
[ 17.161895] bus i2o: add driver exec-osm
[ 17.162108] bus pci: add driver PCI_I2O
[ 17.162291] I2O ProcFS OSM v1.145
[ 17.169234] bus i2o: add driver proc-osm
[ 17.169413] i2c /dev entries driver
[ 17.176346] device class 'i2c-dev': registering
[ 17.176351] bus i2c: add driver dev_driver
[ 17.176530] i2c-core: driver [dev_driver] registered
[ 17.176533] i2c-dev: adapter [monid] registered as minor 0
[ 17.176535] CLASS: registering class device: ID = 'i2c-0'
[ 17.176544] class_hotplug - name = i2c-0
[ 17.176725] i2c-dev: adapter [dvi] registered as minor 1
[ 17.176727] CLASS: registering class device: ID = 'i2c-1'
[ 17.176732] class_hotplug - name = i2c-1
[ 17.176948] i2c-dev: adapter [vga] registered as minor 2
[ 17.176951] CLASS: registering class device: ID = 'i2c-2'
[ 17.176961] class_hotplug - name = i2c-2
[ 17.177172] i2c-dev: adapter [crt2] registered as minor 3
[ 17.177174] CLASS: registering class device: ID = 'i2c-3'
[ 17.177180] class_hotplug - name = i2c-3
[ 17.177369] device class 'hwmon': registering
[ 17.177852] input: AT Translated Set 2 keyboard as /class/input/input1
[ 17.184861] CLASS: registering class device: ID = 'input1'
[ 17.184866] class_hotplug - name = input1
[ 17.185242] CLASS: registering class device: ID = 'event1'
[ 17.185248] class_hotplug - name = event1
[ 17.185251] class_device_create_hotplug called for event1
[ 17.185472] bound device 'serio1' to driver 'atkbd'
[ 17.185476] serio: Bound Device serio1 to Driver atkbd
[ 17.185481] bus serio: add driver psmouse
[ 17.185681] serio: Matched Device serio0 with Driver psmouse
[ 17.207354] device class 'sound': registering
[ 17.207372] bus platform: add driver snd_generic
[ 17.207558] Advanced Linux Sound Architecture Driver Version 1.0.10rc3 (Mon Nov 07 13:30:21 2005)
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UTC).

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[ 17.214819] CLASS: registering class device: ID = 'timer'
[ 17.214823] class_hotplug - name = timer
[ 17.214825] class_device_create_hotplug called for timer
[ 17.215004] CLASS: registering class device: ID = 'sequencer'
[ 17.215009] class_hotplug - name = sequencer
[ 17.215011] class_device_create_hotplug called for sequencer
[ 17.215331] CLASS: registering class device: ID = 'sequencer2'
[ 17.215341] class_hotplug - name = sequencer2
[ 17.215343] class_device_create_hotplug called for sequencer2
[ 17.215767] CLASS: registering class device: ID = 'seq'
[ 17.215773] class_hotplug - name = seq
[ 17.215775] class_device_create_hotplug called for seq
[ 17.215806] bus pci: add driver Intel ICH
[ 17.215995] pci: Matched Device 0000:00:1f.5 with Driver Intel ICH
[ 17.216018] acpi_bus-0200 [07] bus_set_power : Device is not power manageable
[ 17.223439] ACPI: PCI Interrupt 0000:00:1f.5[B] -> Link [LNKB] -> GSI 7 (level, low) -> IRQ 7
[ 17.230884] PCI: Setting latency timer of device 0000:00:1f.5 to 64
[ 17.353923] input: PS/2 Generic Mouse as /class/input/input2
[ 17.361137] CLASS: registering class device: ID = 'input2'
[ 17.361147] class_hotplug - name = input2
[ 17.361369] CLASS: registering class device: ID = 'mouse0'
[
```