

Re: [linux-pm] [PATCH 0/4] Fix forcedeth hibernate/wake-on-lan problems

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-06/msg00059.html>

- *From:* Tobias Diedrich <ranma+kernel@xxxxxxxxxxxxx>
 - *Date:* Sun, 1 Jun 2008 09:49:36 +0200
-

Alan Stern wrote:

On Sun, 1 Jun 2008, Tobias Diedrich wrote:

Ok, after another long debugging session I finally found out the reason for the immediate reboot (after finding the place that suspends the serial console (drivers/pnp) and disabling that suspend path):

The system is woken up by USB activity! (Optical mouse, anyone?)

Lo and behold:

drivers/usb/core/hcd-pci.c tries it's best to activate 'wake on usb', which I didn't know since it apparently also never worked.

However, after applying the 'use platform_enable_wakeup'-patch, not only forcedeth wake starts working, also usb wake.

If I prevent usb wake:

```
|echo disabled > /sys/devices/pci0000\:00\0000\:00\:02.0/power/wakeup'
```

```
|echo disabled > /sys/devices/pci0000\:00\0000\:00\:02.1/power/wakeup'
```

And then hibernate in platform mode, the immediate reboot is gone and waking up using magic packets works fine even without setting up /proc/acpi/wakeup first.

Maybe I should try hooking mouse and keyboard onto different usb host controllers, so I can disable wakeup for the mouse host controller and enable wakeup for the keyboard host controller, then it should be possible to wake the system by pressing a key. :)

You don't need to do that. Wakeup can be set specifically for each individual USB device, provided CONFIG_USB_SUSPEND is enabled.

Cool, I didn't know that. :)

On Sun, 1 Jun 2008, Tobias Diedrich wrote:

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(BTW I first thought the 'immediate reboot because of usb wake' effect is caused by the optical mouse generating a wake event, but it rather seems to be a problem with a flaky secondary usb host controller, which sees a connected device where nothing is attached)

Can you provide debugging information (i.e., CONFIG_USB_DEBUG) with the details on this bogus wakeup?

Sure.

Here is the complete log of one boot and two s2disk_platform cycles captured using the serial console (in the first s2disk I forgot to remove the 'turn off /sys/bus/usb/device/usb?/power/wakeup' part).

Interestingly even with power/wakeup disabled for usb1 and usb2, which I assume to be the usb root ports, I could wake up the system by pressing a key on my keyboard (which didn't work before turning on CONFIG_USB_SUSPEND).

On the second suspend the system rebooted immediately as expected (I power/wakeup for usb1 and usb2 back on and disabled the part in the script).

I think this might be some general usb hw flakiness, since it seems to detect (and has so for a long time) a non-existing device:

lsusb output:

```
Bus 002 Device 003: ID 045e:00db Microsoft Corp. Natural Ergonomic Keyboard 4000 V1.0
Bus 002 Device 002: ID 045e:0040 Microsoft Corp. Wheel Mouse Optical
Bus 002 Device 001: ID 1d6b:0001
Bus 001 Device 001: ID 1d6b:0002
```

bogus device?:

```
[14316046.469949] usb 2-4: new full speed USB device using ohci_hcd and address 12
[14316046.679951] usb 2-4: device descriptor read/64, error -62
[14316046.986619] usb 2-4: device descriptor read/64, error -62
[14316047.263284] usb 2-4: new full speed USB device using ohci_hcd and address 13
[14316047.476614] usb 2-4: device descriptor read/64, error -62
[14316047.786618] usb 2-4: device descriptor read/64, error -62
[14316048.063282] usb 2-4: new full speed USB device using ohci_hcd and address 14
[14316048.499945] usb 2-4: device not accepting address 14, error -62
[14316048.669950] usb 2-4: new full speed USB device using ohci_hcd and address 15
[14316049.106612] usb 2-4: device not accepting address 15, error -62
[14316049.112960] hub 2-0:1.0: unable to enumerate USB device on port 4
```

complete log:

```
[ 0.000000] Linux version 2.6.26-rc4 (ranma@melchior) (gcc version 4.2.3 (Debian 4.2.3-5)) #28
PREEMPT Sun Jun 1 09:06:24 CEST 2008
[ 0.000000] Command line: root=/dev/sda5 resume=/dev/sda6 vga=6 apic=verbose console=ttyS0,115200
```

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```
console=tty0 pci=noms no_console_suspend ro
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: 0000000000000000 - 000000000009f800 (usable)
[ 0.000000] BIOS-e820: 000000000009f800 - 00000000000a0000 (reserved)
[ 0.000000] BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)
[ 0.000000] BIOS-e820: 0000000001000000 - 0000000007fee000 (usable)
[ 0.000000] BIOS-e820: 0000000007fee000 - 0000000007fee3000 (ACPI NVS)
[ 0.000000] BIOS-e820: 0000000007fee3000 - 0000000007fef0000 (ACPI data)
[ 0.000000] BIOS-e820: 0000000007fef0000 - 0000000007ff00000 (reserved)
[ 0.000000] BIOS-e820: 00000000f0000000 - 00000000f4000000 (reserved)
[ 0.000000] BIOS-e820: 00000000fec00000 - 0000000100000000 (reserved)
[ 0.000000] max_pfn_mapped = 1048576
[ 0.000000] x86 PAT enabled: cpu 0, old 0x7040600070406, new 0x7010600070106
[ 0.000000] init_memory_mapping
[ 0.000000] DMI 2.4 present.
[ 0.000000] ACPI: RSDP 000F7D20, 0024 (r2 Nvidia)
[ 0.000000] ACPI: XSDT 7FEE3100, 004C (r1 Nvidia ASUSACPI 42302E31 AWRD 0)
[ 0.000000] ACPI: FACP 7FEEADC0, 00F4 (r3 Nvidia ASUSACPI 42302E31 AWRD 0)
[ 0.000000] ACPI: DSDT 7FEE3280, 7ACE (r1 NVIDIA AWRDACPI 1000 MSFT 3000000)
[ 0.000000] ACPI: FACS 7FEE0000, 0040
[ 0.000000] ACPI: SSDT 7FEEB000, 0136 (r1 PTLTD POWERNOW 1 LTP 1)
[ 0.000000] ACPI: HPET 7FEEB180, 0038 (r1 Nvidia ASUSACPI 42302E31 AWRD 98)
[ 0.000000] ACPI: MCFG 7FEEB200, 003C (r1 Nvidia ASUSACPI 42302E31 AWRD 0)
[ 0.000000] ACPI: APIC 7FEEAF00, 0098 (r1 Nvidia ASUSACPI 42302E31 AWRD 0)
[ 0.000000] early res: 0 [0-fff] BIOS data page
[ 0.000000] early res: 1 [6000-7fff] TRAMPOLINE
[ 0.000000] early res: 2 [20000-d3638f] TEXT DATA BSS
[ 0.000000] early res: 3 [9f800-ffff] BIOS reserved
[ 0.000000] early res: 4 [8000-bfff] PGTABLE
[ 0.000000] Zone PFN ranges:
[ 0.000000] DMA 0 -> 4096
[ 0.000000] DMA32 4096 -> 1048576
[ 0.000000] Normal 1048576 -> 1048576
[ 0.000000] Movable zone start PFN for each node
[ 0.000000] early_node_map[2] active PFN ranges
[ 0.000000] 0: 0 -> 159
[ 0.000000] 0: 256 -> 524000
[ 0.000000] Detected use of extended apic ids on hypertransport bus
[ 0.000000] ACPI: PM-Timer IO Port: 0x1008
[ 0.000000] ACPI: LAPIC (acpi_id[0x00] lapic_id[0x00] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x01] lapic_id[0x01] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x02] lapic_id[0x02] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x03] lapic_id[0x03] disabled)
[ 0.000000] ACPI: LAPIC_NMI (acpi_id[0x00] high edge lint[0x1])
[ 0.000000] ACPI: LAPIC_NMI (acpi_id[0x01] high edge lint[0x1])
[ 0.000000] ACPI: LAPIC_NMI (acpi_id[0x02] high edge lint[0x1])
[ 0.000000] ACPI: LAPIC_NMI (acpi_id[0x03] high edge lint[0x1])
[ 0.000000] ACPI: IOAPIC (id[0x04] address[0xfec00000] gsi_base[0])
[ 0.000000] IOAPIC[0]: apic_id 4, version 0, 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)
```

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```
[ 0.000000] ACPI: INT_SRC_OVR (bus 0 bus_irq 14 global_irq 14 high edge)
[ 0.000000] ACPI: INT_SRC_OVR (bus 0 bus_irq 15 global_irq 15 high edge)
[ 0.000000] Setting APIC routing to flat
[ 0.000000] ACPI: HPET id: 0x10de8201 base: 0xfefff000
[ 0.000000] Using ACPI (MADT) for SMP configuration information
[ 0.000000] mapped APIC to ffffffff5fb000 ( fee00000)
[ 0.000000] mapped IOAPIC to ffffffff5fa000 (00000000fec00000)
[ 0.000000] PM: Registered nosave memory: 000000000009f000 – 00000000000a0000
[ 0.000000] PM: Registered nosave memory: 00000000000a0000 – 00000000000f0000
[ 0.000000] PM: Registered nosave memory: 00000000000f0000 – 0000000000100000
[ 0.000000] Allocating PCI resources starting at 80000000 (gap: 7ff00000:70100000)
[14315324.233334] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 513763
[14315324.233334] Kernel command line: root=/dev/sda5 resume=/dev/sda6 vga=6 apic=verbose
console=ttyS0,115200 console=tty0 pci=noms no_console_suspend ro
[14315324.233334] Initializing CPU#0
[14315324.233334] PID hash table entries: 4096 (order: 12, 32768 bytes)
[14315324.233334] Extended CMOS year: 2000
[14315324.233334] TSC calibrated against PM_TIMER
[14315324.233334] time.c: Detected 2411.107 MHz processor.
[14315324.233334] Console: colour VGA+ 80x60
[14315324.233334] console [tty0] enabled
[14315324.233334] console [ttyS0] enabled
[14315324.233334] Lock dependency validator: Copyright (c) 2006 Red Hat, Inc., Ingo Molnar
[14315324.233334] ... MAX_LOCKDEP_SUBCLASSES: 8
[14315324.233334] ... MAX_LOCK_DEPTH: 48
[14315324.233334] ... MAX_LOCKDEP_KEYS: 2048
[14315324.233334] ... CLASSHASH_SIZE: 1024
[14315324.233334] ... MAX_LOCKDEP_ENTRIES: 8192
[14315324.233334] ... MAX_LOCKDEP_CHAINS: 16384
[14315324.233334] ... CHAINHASH_SIZE: 8192
[14315324.233334] memory used by lock dependency info: 1648 kB
[14315324.233334] per task-struct memory footprint: 2688 bytes
[14315324.233334] Dentry cache hash table entries: 262144 (order: 9, 2097152 bytes)
[14315324.233334] Inode-cache hash table entries: 131072 (order: 8, 1048576 bytes)
[14315324.233334] Checking aperture...
[14315324.233334] Node 0: aperture @ ab94000000 size 32 MB
[14315324.233334] Aperture beyond 4GB. Ignoring.
[14315324.233334] No AGP bridge found
[14315324.233334] Memory: 2051692k/2096000k available (4624k kernel code, 43544k reserved, 2268k
data, 260k init)
[14315324.316528] Calibrating delay using timer specific routine.. 4827.00 BogoMIPS (lpj=8043211)
[14315324.322857] Mount-cache hash table entries: 256
[14315324.327217] CPU: L1 I Cache: 64K (64 bytes/line), D cache 64K (64 bytes/line)
[14315324.333327] CPU: L2 Cache: 512K (64 bytes/line)
[14315324.336660] CPU: AMD Athlon(tm) 64 Processor 3800+ stepping 01
[14315324.342947] ACPI: Core revision 20080321
[14315324.359992] Parsing all Control Methods:
[14315324.364011] Table [DSDT](id 0001) – 1203 Objects with 101 Devices 380 Methods 44 Regions
[14315324.369992] Parsing all Control Methods:
[14315324.373967] Table [SSDT](id 0002) – 4 Objects with 0 Devices 0 Methods 0 Regions
[14315324.379991] tbxface-0598 [02] tb_load_namespace : ACPI Tables successfully acquired
```

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[14315324.389990] evxfevnt-0091 [02] enable : Transition to ACPI mode successful
[14315324.398904] enabled ExtINT on CPU#0
[14315324.402998] ENABLING IO-APIC IRQs
[14315324.406656] ..TIMER: vector=0x30 apic1=0 pin1=2 apic2=-1 pin2=-1
[14315324.442963] Using local APIC timer interrupts.
[14315324.449986] Detected 12.557 MHz APIC timer.
[14315324.453320] net_namespace: 1272 bytes
[14315324.456653] NET: Registered protocol family 16
[14315324.460262] No dock devices found.
[14315324.464194] TOM: 0000000080000000 aka 2048M
[14315324.468795] ACPI: bus type pci registered
[14315324.473293] PCI: Using configuration type 1 for base access
[14315324.481636] evgpeblk-0956 [04] ev_create_gpe_block : GPE 00 to 1F [_GPE] 4 regs on int 0x9
[14315324.490696] evgpeblk-0956 [04] ev_create_gpe_block : GPE 20 to 5F [_GPE] 8 regs on int 0x9
[14315324.509805] Completing Region/Field/Buffer/Package
initialization:.....
[14315324.545447] Initialized 39/44 Regions 11/11 Fields 40/40 Buffers 89/101 Packages (1216 nodes)
[14315324.549980] Initializing Device/Processor/Thermal objects by executing _INI methods:....
[14315324.556256] Executed 3 _INI methods requiring 1 _STA executions (examined 108 objects)
[14315324.559979] evgpeblk-1052 [03] ev_initialize_gpe_bloc: Found 9 Wake, Enabled 0 Runtime GPEs in
this block
[14315324.569979] evgpeblk-1052 [03] ev_initialize_gpe_bloc: Found 0 Wake, Enabled 1 Runtime GPEs in
this block
[14315324.579978] ACPI: Interpreter enabled
[14315324.583311] ACPI: (supports S0 S1 S3 S4 S5)
[14315324.587948] ACPI: Using IOAPIC for interrupt routing
[14315324.615454] ACPI: PCI Root Bridge [PCI0] (0000:00)
[14315324.619975] PCI: Transparent bridge - 0000:00:06.0
[14315324.713931] ACPI: PCI Interrupt Link [LNK1] (IRQs 5 7 9 10 11 14 15) *0, disabled.
[14315324.722733] ACPI: PCI Interrupt Link [LNK2] (IRQs 5 7 9 10 11 14 15) *0, disabled.
[14315324.728224] ACPI: PCI Interrupt Link [LNK3] (IRQs 5 7 9 *10 11 14 15)
[14315324.735722] ACPI: PCI Interrupt Link [LNK4] (IRQs 5 7 9 10 11 14 15) *0, disabled.
[14315324.741551] ACPI: PCI Interrupt Link [LNK5] (IRQs 5 7 9 10 11 14 15) *0, disabled.
[14315324.750168] ACPI: PCI Interrupt Link [LNK6] (IRQs 5 7 9 10 11 14 15) *0, disabled.
[14315324.758958] ACPI: PCI Interrupt Link [LNK7] (IRQs 5 7 9 10 *11 14 15)
[14315324.763301] ACPI: PCI Interrupt Link [LNK8] (IRQs 5 7 9 10 11 14 15) *0, disabled.
[14315324.768608] ACPI: PCI Interrupt Link [LP2P] (IRQs 5 7 9 10 11 14 15) *0, disabled.
[14315324.777265] ACPI: PCI Interrupt Link [LUBA] (IRQs 5 7 9 10 *11 14 15)
[14315324.784758] ACPI: PCI Interrupt Link [LMAC] (IRQs 5 7 9 *10 11 14 15)
[14315324.792250] ACPI: PCI Interrupt Link [LMC1] (IRQs 5 7 9 *10 11 14 15)
[14315324.796634] ACPI: PCI Interrupt Link [LAZA] (IRQs *5 7 9 10 11 14 15)
[14315324.800688] ACPI: PCI Interrupt Link [LPMU] (IRQs 5 7 9 10 11 14 15) *0, disabled.
[14315324.809482] ACPI: PCI Interrupt Link [LSMB] (IRQs 5 7 9 *10 11 14 15)
[14315324.813827] ACPI: PCI Interrupt Link [LUB2] (IRQs *5 7 9 10 11 14 15)
[14315324.821294] ACPI: PCI Interrupt Link [LIDE] (IRQs 5 7 9 10 11 14 15) *0, disabled.
[14315324.829954] ACPI: PCI Interrupt Link [LSID] (IRQs *5 7 9 10 11 14 15)
[14315324.834333] ACPI: PCI Interrupt Link [LFID] (IRQs 5 7 9 *10 11 14 15)
[14315324.841605] ACPI: PCI Interrupt Link [LSA2] (IRQs 5 7 9 10 *11 14 15)
[14315324.849225] ACPI: PCI Interrupt Link [APC1] (IRQs 16) *0, disabled.
[14315324.853301] ACPI: PCI Interrupt Link [APC2] (IRQs 17) *0, disabled.
[14315324.857246] ACPI: PCI Interrupt Link [APC3] (IRQs 18) *0

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[14315324.863511] ACPI: PCI Interrupt Link [APC4] (IRQs 19) *0, disabled.
[14315324.870581] ACPI: PCI Interrupt Link [APC5] (IRQs 16) *0, disabled.
[14315324.877827] ACPI: PCI Interrupt Link [APC6] (IRQs 16) *0, disabled.
[14315324.885078] ACPI: PCI Interrupt Link [APC7] (IRQs 16) *0
[14315324.889968] ACPI: PCI Interrupt Link [APC8] (IRQs 16) *0, disabled.
[14315324.895427] ACPI: PCI Interrupt Link [APCF] (IRQs 20 21 22 23) *0
[14315324.899968] ACPI: PCI Interrupt Link [APCH] (IRQs 20 21 22 23) *0
[14315324.903301] ACPI: PCI Interrupt Link [AMC1] (IRQs 20 21 22 23) *0
[14315324.907248] ACPI: PCI Interrupt Link [APMU] (IRQs 20 21 22 23) *0, disabled.
[14315324.915379] ACPI: PCI Interrupt Link [AAZA] (IRQs 20 21 22 23) *0
[14315324.919968] ACPI: PCI Interrupt Link [APCS] (IRQs 20 21 22 23) *0
[14315324.923301] ACPI: PCI Interrupt Link [APCL] (IRQs 20 21 22 23) *0
[14315324.927247] ACPI: PCI Interrupt Link [APCM] (IRQs 20 21 22 23) *0, disabled.
[14315324.934990] ACPI: PCI Interrupt Link [APCZ] (IRQs 20 21 22 23) *0, disabled.
[14315324.943235] ACPI: PCI Interrupt Link [APSI] (IRQs 20 21 22 23) *0
[14315324.947245] ACPI: PCI Interrupt Link [APSJ] (IRQs 20 21 22 23) *0
[14315324.954299] ACPI: PCI Interrupt Link [ASA2] (IRQs 20 21 22 23) *0
[14315324.961445] Linux Plug and Play Support v0.97 (c) Adam Belay
[14315324.966635] pnp: PnP ACPI init
[14315324.969968] ACPI: bus type pnp registered
[14315324.982451] pnp: PnP ACPI: found 13 devices
[14315324.986635] ACPI: ACPI bus type pnp unregistered
[14315324.989968] SCSI subsystem initialized
[14315324.993377] usbcore: registered new interface driver usbfs
[14315324.999287] usbcore: registered new interface driver hub
[14315325.003301] usbcore: registered new device driver usb
[14315325.006635] PCI: Using ACPI for IRQ routing
[14315325.009968] testing the IO APIC.....
[14315325.013301]
[14315325.013301] done.
[14315325.027785] Bluetooth: Core ver 2.11
[14315325.031917] NET: Registered protocol family 31
[14315325.036635] Bluetooth: HCI device and connection manager initialized
[14315325.039968] Bluetooth: HCI socket layer initialized
[14315325.043301] DMAR:parse DMAR table failure.
[14315325.054043] system 00:01: ioport range 0x1000-0x107f has been reserved
[14315325.060940] system 00:01: ioport range 0x1080-0x10ff has been reserved
[14315325.067827] system 00:01: ioport range 0x1400-0x147f has been reserved
[14315325.074713] system 00:01: ioport range 0x1480-0x14ff has been reserved
[14315325.081599] system 00:01: ioport range 0x1800-0x187f has been reserved
[14315325.088485] system 00:01: ioport range 0x1880-0x18ff has been reserved
[14315325.095383] system 00:02: ioport range 0x4d0-0x4d1 has been reserved
[14315325.102096] system 00:02: ioport range 0x800-0x87f has been reserved
[14315325.108810] system 00:02: ioport range 0x290-0x297 has been reserved
[14315325.115545] system 00:0b: iomem range 0xf0000000-0xf3ffffff could not be reserved
[14315325.123493] system 00:0c: iomem range 0xcd000-0xcffff has been reserved
[14315325.130468] system 00:0c: iomem range 0xf0000-0xf7fff could not be reserved
[14315325.139923] system 00:0c: iomem range 0xf8000-0xfbfff could not be reserved
[14315325.147331] system 00:0c: iomem range 0xfc000-0xfffff could not be reserved
[14315325.154737] system 00:0c: iomem range 0xfefff000-0xfefff0ff could not be reserved
[14315325.162662] system 00:0c: iomem range 0x7fee0000-0x7fefffff could not be reserved

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[14315325.170117] system 00:0c: iomem range 0xffff0000-0xffffffff could not be reserved
[14315325.178042] system 00:0c: iomem range 0x0-0x9fff could not be reserved
[14315325.185014] system 00:0c: iomem range 0x100000-0x7fedffff could not be reserved
[14315325.199644] system 00:0c: iomem range 0xfec00000-0xfec00fff could not be reserved
[14315325.206697] system 00:0c: iomem range 0xfe000000-0xfeefffff could not be reserved
[14315325.214622] system 00:0c: iomem range 0xfefff000-0xfeffffff could not be reserved
[14315325.222574] system 00:0c: iomem range 0xffff80000-0xffff80fff could not be reserved
[14315325.230499] system 00:0c: iomem range 0xffff90000-0xffffbfff could not be reserved
[14315325.238429] system 00:0c: iomem range 0xffffed000-0xffffeffff could not be reserved
[14315325.247393] PCI: Bridge: 0000:00:06.0
[14315325.251010] IO window: 9000-9fff
[14315325.254789] MEM window: disabled.
[14315325.259839] PREFETCH window: disabled.
[14315325.263706] PCI: Bridge: 0000:00:0a.0
[14315325.267734] IO window: 8000-8fff
[14315325.271508] MEM window: 0xfde00000-0xfdefffff
[14315325.276406] PREFETCH window: 0x00000000e8000000-0x00000000efffffff
[14315325.283120] PCI: Bridge: 0000:00:0e.0
[14315325.287151] IO window: 6000-7fff
[14315325.290924] MEM window: 0xfdd00000-0xfddfffff
[14315325.295819] PREFETCH window: disabled.
[14315325.300188] NET: Registered protocol family 2
[14315325.336002] IP route cache hash table entries: 65536 (order: 7, 524288 bytes)
[14315325.344144] TCP established hash table entries: 262144 (order: 10, 4194304 bytes)
[14315325.353336] TCP bind hash table entries: 65536 (order: 9, 3670016 bytes)
[14315325.365879] TCP: Hash tables configured (established 262144 bind 65536)
[14315325.372885] TCP reno registered
[14315325.385861] NET: Registered protocol family 1
[14315325.392316] Installing knfsd (copyright (C) 1996 okir@xxxxxxxxxxxxx).
[14315325.399451] JFFS2 version 2.2. (NAND) © 2001-2006 Red Hat, Inc.
[14315325.405975] fuse init (API version 7.9)
[14315325.410333] SGI XFS with security attributes, large block/inode numbers, no debug enabled
[14315325.419250] msgmni has been set to 4007 for ipc namespace ffffffff808882f0
[14315325.426690] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 254)
[14315325.434542] io scheduler noop registered
[14315325.439746] io scheduler anticipatory registered
[14315325.444057] io scheduler deadline registered
[14315325.449069] io scheduler cfq registered (default)
[14315325.466317] pci 0000:00:05.0: Enabling HT MSI Mapping
[14315325.471768] pci 0000:00:05.1: Enabling HT MSI Mapping
[14315325.476878] pci 0000:00:05.2: Enabling HT MSI Mapping
[14315325.482326] pci 0000:00:06.0: Enabling HT MSI Mapping
[14315325.487762] pci 0000:00:06.1: Enabling HT MSI Mapping
[14315325.493216] pci 0000:00:08.0: Enabling HT MSI Mapping
[14315325.498657] pci 0000:00:09.0: Enabling HT MSI Mapping
[14315325.504089] pci 0000:00:0a.0: Enabling HT MSI Mapping
[14315325.509542] pci 0000:00:0e.0: Enabling HT MSI Mapping
[14315325.515240] assign_interrupt_mode Found MSI capability
[14315325.520563] assign_interrupt_mode Found MSI capability
[14315325.526830] input: Power Button (FF) as /class/input/input0
[14315325.532803] ACPI: Power Button (FF) [PWRF]

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[14315325.537393] input: Power Button (CM) as /class/input/input1
[14315325.543334] ACPI: Power Button (CM) [PWRB]
[14315325.549405] ACPI: PNP0C0B:00 is registered as cooling_device0
[14315325.556669] ACPI: Fan [FAN] (on)
[14315325.560283] ACPI: ACPI0007:00 is registered as cooling_device1
[14315325.566782] ACPI: Expecting a [Reference] package element, found type 0
[14315325.574062] ACPI: LNX_THERM:01 is registered as thermal_zone0
[14315325.580526] ACPI: Thermal Zone [THRM] (40 C)
[14315325.603598] Real Time Clock Driver v1.12ac
[14315325.608082] Linux apgart interface v0.103
[14315325.612554] Serial: 8250/16550 driver \$Revision: 1.90 \$ 4 ports, IRQ sharing disabled
[14315325.622766] serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[14315325.630112] 00:09: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[14315325.637619] loop: module loaded
[14315325.641039] e1000e: Intel(R) PRO/1000 Network Driver - 0.3.3.3-k2
[14315325.647521] e1000e: Copyright (c) 1999-2008 Intel Corporation.
[14315325.653835] e100: Intel(R) PRO/100 Network Driver, 3.5.23-k4-NAPI
[14315325.660291] e100: Copyright(c) 1999-2006 Intel Corporation
[14315325.666298] tun: Universal TUN/TAP device driver, 1.6
[14315325.671719] tun: (C) 1999-2004 Max Krasnyansky <maxk@xxxxxxxxxxxx>
[14315325.678486] Driver 'sd' needs updating - please use bus_type methods
[14315325.685250] Driver 'sr' needs updating - please use bus_type methods
[14315325.692968] ACPI: PCI Interrupt Link [APSI] enabled at IRQ 23
[14315325.699090] ACPI: PCI Interrupt 0000:00:05.0[A] -> Link [APSI] -> GSI 23 (level, low) -> IRQ 23
[14315325.708856] sata_nv 0000:00:05.0: Using SWNCQ mode
[14315325.714155] scsi0 : sata_nv
[14315325.717573] scsi1 : sata_nv
[14315325.721157] ata1: SATA max UDMA/133 cmd 0x9f0 ctl 0xbf0 bmdma 0xdc00 irq 23
[14315325.729249] ata2: SATA max UDMA/133 cmd 0x970 ctl 0xb70 bmdma 0xdc08 irq 23
[14315326.206695] ata1: SATA link up 3.0 Gbps (SStatus 123 SControl 300)
[14315326.220214] ata1.00: ATA-8: SAMSUNG HD501LJ, CR100-12, max UDMA7
[14315326.226591] ata1.00: 976773168 sectors, multi 1: LBA48 NCQ (depth 31/32)
[14315326.240528] ata1.00: configured for UDMA/133
[14315326.573689] ata2: SATA link down (SStatus 0 SControl 300)
[14315326.592884] isa bounce pool size: 16 pages
[14315326.596954] scsi 0:0:0:0: Direct-Access ATA SAMSUNG HD501LJ CR10 PQ: 0 ANSI: 5
[14315326.606003] sd 0:0:0:0: [sda] 976773168 512-byte hardware sectors (500108 MB)
[14315326.613427] sd 0:0:0:0: [sda] Write Protect is off
[14315326.618629] sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
[14315326.627076] sd 0:0:0:0: [sda] 976773168 512-byte hardware sectors (500108 MB)
[14315326.636278] sd 0:0:0:0: [sda] Write Protect is off
[14315326.640932] sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
[14315326.650430] sda: sda1 sda2 sda3 sda4 < sda5 sda6 sda7 >
[14315326.691809] sd 0:0:0:0: [sda] Attached SCSI disk
[14315326.697309] sd 0:0:0:0: Attached scsi generic sg0 type 0
[14315326.706671] ACPI: PCI Interrupt Link [APSJ] enabled at IRQ 22
[14315326.712679] ACPI: PCI Interrupt 0000:00:05.1[B] -> Link [APSJ] -> GSI 22 (level, low) -> IRQ 22
[14315326.720959] sata_nv 0000:00:05.1: Using SWNCQ mode
[14315326.726665] scsi2 : sata_nv
[14315326.730009] scsi3 : sata_nv
[14315326.733588] ata3: SATA max UDMA/133 cmd 0x9e0 ctl 0xbe0 bmdma 0xc800 irq 22

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[14315326.740998] ata4: SATA max UDMA/133 cmd 0x960 ctl 0xb60 bmdma 0xc808 irq 22
[14315327.077024] ata3: SATA link down (SStatus 0 SControl 300)
[14315327.423689] ata4: SATA link down (SStatus 0 SControl 300)
[14315327.443336] ACPI: PCI Interrupt Link [ASA2] enabled at IRQ 21
[14315327.449341] ACPI: PCI Interrupt 0000:00:05.2[C] -> Link [ASA2] -> GSI 21 (level, low) -> IRQ 21
[14315327.457739] sata_nv 0000:00:05.2: Using SWNCQ mode
[14315327.463435] scsi4 : sata_nv
[14315327.466797] scsi5 : sata_nv
[14315327.470365] ata5: SATA max UDMA/133 cmd 0xc400 ctl 0xc000 bmdma 0xb400 irq 21
[14315327.477943] ata6: SATA max UDMA/133 cmd 0xbc00 ctl 0xb800 bmdma 0xb408 irq 21
[14315327.813749] ata5: SATA link down (SStatus 0 SControl 300)
[14315328.303360] ata6: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
[14315328.316777] ata6.00: ATAPI: TSSTcorp CDDVDW SH-S203B, SB00, max UDMA/100
[14315328.336778] ata6.00: configured for UDMA/100
[14315328.355468] scsi 5:0:0:0: CD-ROM TSSTcorp CDDVDW SH-S203B SB00 PQ: 0 ANSI: 5
[14315328.366670] sr0: scsi3-mmc drive: 125x/125x writer dvd-ram cd/rw xa/form2 cdda tray
[14315328.373341] Uniform CD-ROM driver Revision: 3.20
[14315328.380357] sr 5:0:0:0: Attached scsi generic sg1 type 5
[14315328.391894] block2mtd: version \$Revision: 1.30 \$
[14315328.397846] ACPI: PCI Interrupt Link [APCL] enabled at IRQ 20
[14315328.403986] ACPI: PCI Interrupt 0000:00:02.1[B] -> Link [APCL] -> GSI 20 (level, low) -> IRQ 20
[14315328.413704] ehci_hcd 0000:00:02.1: EHCI Host Controller
[14315328.420231] ehci_hcd 0000:00:02.1: new USB bus registered, assigned bus number 1
[14315328.427723] ehci_hcd 0000:00:02.1: debug port 1
[14315328.433160] ehci_hcd 0000:00:02.1: irq 20, io mem 0xfe02e000
[14315328.448349] ehci_hcd 0000:00:02.1: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
[14315328.456845] usb usb1: configuration #1 chosen from 1 choice
[14315328.462979] hub 1-0:1.0: USB hub found
[14315328.467136] hub 1-0:1.0: 10 ports detected
[14315328.573556] usb usb1: New USB device found, idVendor=1d6b, idProduct=0002
[14315328.580717] usb usb1: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[14315328.588392] usb usb1: Product: EHCI Host Controller
[14315328.595058] usb usb1: Manufacturer: Linux 2.6.26-rc4 ehci_hcd
[14315328.600310] usb usb1: SerialNumber: 0000:00:02.1
[14315328.607391] ACPI: PCI Interrupt Link [APCF] enabled at IRQ 23
[14315328.613502] ACPI: PCI Interrupt 0000:00:02.0[A] -> Link [APCF] -> GSI 23 (level, low) -> IRQ 23
[14315328.622764] ohci_hcd 0000:00:02.0: OHCI Host Controller
[14315328.628592] ohci_hcd 0000:00:02.0: new USB bus registered, assigned bus number 2
[14315328.636474] ohci_hcd 0000:00:02.0: irq 23, io mem 0xfe02f000
[14315328.695724] usb usb2: configuration #1 chosen from 1 choice
[14315328.701789] hub 2-0:1.0: USB hub found
[14315328.705943] hub 2-0:1.0: 10 ports detected
[14315328.783404] hub 1-0:1.0: unable to enumerate USB device on port 1
[14315328.816650] usb usb2: New USB device found, idVendor=1d6b, idProduct=0001
[14315328.823342] usb usb2: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[14315328.830616] usb usb2: Product: OHCI Host Controller
[14315328.835858] usb usb2: Manufacturer: Linux 2.6.26-rc4 ohci_hcd
[14315328.840212] usb usb2: SerialNumber: 0000:00:02.0
[14315328.846458] USB Universal Host Controller Interface driver v3.0
[14315328.986691] hub 1-0:1.0: unable to enumerate USB device on port 3
[14315329.163356] hub 1-0:1.0: unable to enumerate USB device on port 4

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[14315329.169974] usbcore: registered new interface driver usblp
[14315329.176790] PNP: No PS/2 controller found. Probing ports directly.
[14315329.183811] serio: i8042 KBD port at 0x60,0x64 irq 1
[14315329.189375] serio: i8042 AUX port at 0x60,0x64 irq 12
[14315329.195449] mice: PS/2 mouse device common for all mice
[14315329.219956] i2c /dev entries driver
[14315329.223980] i2c-adapter i2c-0: nForce2 SMBus adapter at 0x1c00
[14315329.230289] i2c-adapter i2c-1: nForce2 SMBus adapter at 0x1c40
[14315329.236621] it87: Found IT8716F chip at 0x290, revision 0
[14315329.240605] it87: in3 is VCC (+5V)
[14315329.246525] it87: in7 is VCCH (+5V Stand-By)
[14315329.276668] md: raid1 personality registered for level 1
[14315329.283566] device-mapper: ioctl: 4.13.0-ioctl (2007-10-18) initialised: dm-devel@xxxxxxxxxxx
[14315329.292582] Bluetooth: HCI USB driver ver 2.9
[14315329.450012] usb 2-1: new low speed USB device using ohci_hcd and address 2
[14315329.636693] usb 2-1: configuration #1 chosen from 1 choice
[14315329.660003] usb 2-1: New USB device found, idVendor=045e, idProduct=0040
[14315329.666684] usb 2-1: New USB device strings: Mfr=1, Product=3, SerialNumber=0
[14315329.674262] usb 2-1: Product: Microsoft 3-Button Mouse with IntelliEye(TM)
[14315329.683288] usb 2-1: Manufacturer: Microsoft
[14315329.963344] usb 2-3: new low speed USB device using ohci_hcd and address 3
[14315330.156679] usb 2-3: configuration #1 chosen from 1 choice
[14315330.193336] usb 2-3: New USB device found, idVendor=045e, idProduct=00db
[14315330.200017] usb 2-3: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[14315330.207602] usb 2-3: Product: Natural® Ergonomic Keyboard 4000
[14315330.213796] usb 2-3: Manufacturer: Microsoft
[14315330.496678] usb 2-4: new full speed USB device using ohci_hcd and address 4
[14315330.670011] usb 2-4: device descriptor read/64, error -62
[14315330.943344] usb 2-4: device descriptor read/64, error -62
[14315331.210011] usb 2-4: new full speed USB device using ohci_hcd and address 5
[14315331.383344] usb 2-4: device descriptor read/64, error -62
[14315331.656677] usb 2-4: device descriptor read/64, error -62
[14315331.923344] usb 2-4: new full speed USB device using ohci_hcd and address 6
[14315332.336674] usb 2-4: device not accepting address 6, error -62
[14315332.500011] usb 2-4: new full speed USB device using ohci_hcd and address 7
[14315332.913341] usb 2-4: device not accepting address 7, error -62
[14315332.919546] hub 2-0:1.0: unable to enumerate USB device on port 4
[14315332.926358] usbcore: registered new interface driver hci_usb
[14315332.932679] Bluetooth: HCI UART driver ver 2.2
[14315332.938855] Bluetooth: HCI H4 protocol initialized
[14315332.943679] Bluetooth: HCI BCSP protocol initialized
[14315332.949029] cpuidle: using governor ladder
[14315332.953490] cpuidle: using governor menu
[14315332.963336] input: Microsoft Microsoft 3-Button Mouse with IntelliEye(TM) as /class/input/input2
[14315332.994617] input: USB HID v1.10 Mouse [Microsoft Microsoft 3-Button Mouse with IntelliEye(TM)] on usb-0000:00:02.0-1
[14315333.013341] input: Microsoft Natural® Ergonomic Keyboard 4000 as /class/input/input3
[14315333.047434] input: USB HID v1.11 Keyboard [Microsoft Natural® Ergonomic Keyboard 4000] on usb-0000:00:02.0-3
[14315333.070002] input: Microsoft Natural® Ergonomic Keyboard 4000 as /class/input/input4
[14315333.104253] input: USB HID v1.11 Device [Microsoft Natural® Ergonomic Keyboard 4000] on

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usb-0000:00:02.0-3

[14315333.114512] usbcore: registered new interface driver usbhid
[14315333.120305] usbhid: v2.6:USB HID core driver
[14315333.126452] Advanced Linux Sound Architecture Driver Version 1.0.16.
[14315333.134233] ALSA device list:
[14315333.137578] No soundcards found.
[14315333.141510] GACT probability on
[14315333.145020] Mirror/redirect action on
[14315333.150212] u32 classifier
[14315333.153287] Performance counters on
[14315333.154901] input device check on
[14315333.159018] Actions configured
[14315333.166486] IPv4 over IPv4 tunneling driver
[14315333.170629] ip_tables: (C) 2000-2006 Netfilter Core Team
[14315333.176416] TCP bic registered
[14315333.179848] TCP cubic registered
[14315333.183441] TCP westwood registered
[14315333.187300] TCP htcp registered
[14315333.190813] TCP vegas registered
[14315333.194411] TCP yeah registered
[14315333.197923] Initializing XFRM netlink socket
[14315333.202884] NET: Registered protocol family 10
[14315333.210003] IPv6 over IPv4 tunneling driver
[14315333.216669] NET: Registered protocol family 17
[14315333.221405] NET: Registered protocol family 15
[14315333.226324] Bridge firewalling registered
[14315333.230726] Bluetooth: L2CAP ver 2.9
[14315333.236670] Bluetooth: L2CAP socket layer initialized
[14315333.240010] Bluetooth: SCO (Voice Link) ver 0.5
[14315333.245429] Bluetooth: SCO socket layer initialized
[14315333.250384] Bluetooth: RFCOMM socket layer initialized
[14315333.255904] Bluetooth: RFCOMM TTY layer initialized
[14315333.261155] Bluetooth: RFCOMM ver 1.8
[14315333.266419] Bluetooth: BNEP (Ethernet Emulation) ver 1.2
[14315333.270458] Bluetooth: HIDP (Human Interface Emulation) ver 1.2
[14315333.277052] RPC: Registered udp transport module.
[14315333.282436] RPC: Registered tcp transport module.
[14315333.287563] 802.1Q VLAN Support v1.8 Ben Greear <greearb@xxxxxxxxxxxxxxxxxx>
[14315333.296237] All bugs added by David S. Miller <davem@xxxxxxxxxx>
[14315333.300148] powernow-k8: Found 1 AMD Athlon(tm) 64 Processor 3800+ processors (1 cpu cores)
(version 2.20.00)
[14315333.313310] powernow-k8: 0 : fid 0x10 (2400 MHz), vid 0x8
[14315333.316895] powernow-k8: 1 : fid 0xe (2200 MHz), vid 0xa
[14315333.323065] powernow-k8: 2 : fid 0xc (2000 MHz), vid 0xc
[14315333.335676] powernow-k8: 3 : fid 0xa (1800 MHz), vid 0xe
[14315333.341612] powernow-k8: 4 : fid 0x2 (1000 MHz), vid 0x12
[14315333.350003] md: Autodetecting RAID arrays.
[14315333.354367] md: Scanned 0 and added 0 devices.
[14315333.358509] md: autorun ...
[14315333.361835] md: ... autorun DONE.
[14315333.381886] kjournald starting. Commit interval 5 seconds

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[14315333.387883] EXT3-fs: mounted filesystem with ordered data mode.
[14315333.394472] VFS: Mounted root (ext3 filesystem) readonly.
[14315333.400861] Freeing unused kernel memory: 260k freed
[14315333.406477] Write protecting the kernel read-only data: 6480k
[14315334.057088] Marking TSC unstable due to cpufreq changes
[14315334.230019] Clocksource tsc unstable (delta = -103393192 ns)
[14315336.340991] scsi6 : pata_amd
[14315336.344444] scsi7 : pata_amd
[14315336.349256] ata7: PATA max UDMA/133 cmd 0x1f0 ctl 0x3f6 bmdma 0xf000 irq 14
[14315336.364276] ata8: PATA max UDMA/133 cmd 0x170 ctl 0x376 bmdma 0xf008 irq 15
[14315336.559195] ata7.01: ATAPI: Pioneer DVD-ROM ATAPIModel DVD-106S 0122, E1.22, max UDMA/66
[14315336.581322] ata7.01: configured for UDMA/66
[14315336.598214] scsi 6:0:1:0: CD-ROM PIONEER DVD-ROM DVD-106 1.22 PQ: 0 ANSI: 5
[14315336.610878] sr1: scsi3-mmc drive: 40x/40x cd/rw xa/form2 cdda tray
[14315336.617824] sr 6:0:1:0: Attached scsi generic sg2 type 5
[14315336.639413] ACPI: PCI Interrupt Link [AAZA] enabled at IRQ 22
[14315336.645635] ACPI: PCI Interrupt 0000:00:06.1[B] -> Link [AAZA] -> GSI 22 (level, low) -> IRQ 22
[14315336.656334] ALSA sound/pci/hda/hda_intel.c:1904: chipset global capabilities = 0x4401
[14315336.690054] ALSA sound/pci/hda/hda_intel.c:745: codec_mask = 0x1
[14315336.728674] ALSA sound/pci/hda/hda_codec.c:2350: hda_codec: model '6stack-dig' is selected for config 1043:81f6 (Asus M2N-SLI)
[14315337.118212] ALSA sound/pci/hda/hda_codec.c:1127: Cannot find slave Headphone Playback Volume, skipped
[14315337.129724] ALSA sound/pci/hda/hda_codec.c:1127: Cannot find slave Mono Playback Volume, skipped
[14315337.139447] ALSA sound/pci/hda/hda_codec.c:1127: Cannot find slave Speaker Playback Volume, skipped
[14315337.148749] ALSA sound/pci/hda/hda_codec.c:1127: Cannot find slave Speaker Playback Switch, skipped
[14315337.161249] forcedeth: Reverse Engineered nForce ethernet driver. Version 0.61.
[14315337.169779] ACPI: PCI Interrupt Link [APCH] enabled at IRQ 21
[14315337.175914] ACPI: PCI Interrupt 0000:00:08.0[A] -> Link [APCH] -> GSI 21 (level, low) -> IRQ 21
[14315337.702535] forcedeth 0000:00:08.0: ifname eth0, PHY OUI 0x5043 @ 1, addr 00:17:31:aa:1e:89
[14315337.711357] forcedeth 0000:00:08.0: highdma csum vlan pwrctl mgmt timirq gbit lnktim msi msi-x desc-v3
[14315337.750004] gameport: EMU10K1 is pci0000:01:08.1/gameport0, io 0x9800, speed 1201kHz
[14315337.765496] ACPI: PCI Interrupt Link [APC3] enabled at IRQ 18
[14315337.771668] ACPI: PCI Interrupt 0000:01:08.0[A] -> ACPI: PCI Interrupt Link [AMC1] enabled at IRQ 20
[14315337.783535] Link [APC3] -> GSI 18 (level, low) -> IRQ 18
[14315337.797875] ACPI: PCI Interrupt 0000:00:09.0[A] -> ALSA sound/pci/emu10k1/emu10k1_main.c:1748: vendor=0x1102, device=0x2, subsystem_vendor_id=0x80641102, subsystem_id=0x8064
[14315337.819202] Link [AMC1] -> GSI 20 (level, low) -> IRQ 20
[14315337.833609] ALSA sound/pci/emu10k1/emu10k1_main.c:1773: Sound card name=SB Live 5.1
[14315338.353675] forcedeth 0000:00:09.0: ifname eth1, PHY OUI 0x5043 @ 1, addr 00:17:31:ac:c6:64
[14315338.362986] forcedeth 0000:00:09.0: highdma csum vlan pwrctl mgmt timirq gbit lnktim msi msi-x desc-v3
[14315339.093711] Adding 3911788k swap on /dev/sda6. Priority:-1 extents:1 across:3911788k

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[14315339.279495] EXT3 FS on sda5, internal journal
[14315344.690008] br0: Dropping NETIF_F_UFO since no NETIF_F_HW_CSUM feature.
[14315356.516848]
[14315356.516850] =====
[14315356.520007] [ INFO: inconsistent lock state ]
[14315356.520007] 2.6.26-rc4 #28
[14315356.520007] -----
[14315356.520007] inconsistent {in-hardirq-W} -> {hardirq-on-W} usage.
[14315356.520007] ethtool/1985 [HC0[0]:SC0[1]:HE1:SE0] takes:
[14315356.520007] (&np->lock){++..}, at: [<ffffffa000c5fd>] nv_set_settings+0xc8/0x3de [forcedeth]
[14315356.520008] {in-hardirq-W} state was registered at:
[14315356.520008] [<ffffffffffffff>] 0xffffffffffff
[14315356.520008] irq event stamp: 3606
[14315356.520008] hardirqs last enabled at (3605): [<fffff8068106f>] _spin_unlock_irqrestore+0x3f/0x68
[14315356.520008] hardirqs last disabled at (3604): [<fffff80680d38>] _spin_lock_irqsave+0x13/0x46
[14315356.520008] softirqs last enabled at (3534): [<fffff80246ba5>] __do_softirq+0xbc/0xc5
[14315356.520008] softirqs last disabled at (3606): [<fffff80680b33>] _spin_lock_bh+0x11/0x41
[14315356.520008]
[14315356.520008] other info that might help us debug this:
[14315356.520008] 2 locks held by ethtool/1985:
[14315356.520008] #0: (rtnl_mutex){---.}, at: [<fffff80596072>] rtnl_lock+0x12/0x14
[14315356.520008] #1: (_xmit_ETHER){+..}, at: [<ffffffa000c5e8>] nv_set_settings+0xb3/0x3de
[forcedeth]
[14315356.520008]
[14315356.520008] stack backtrace:
[14315356.520008] Pid: 1985, comm: ethtool Not tainted 2.6.26-rc4 #28
[14315356.520008]
[14315356.520008] Call Trace:
[14315356.520008] [<fffff8025f190>] print_usage_bug+0x162/0x173
[14315356.520008] [<fffff8025fa8b>] mark_lock+0x231/0x41f
[14315356.520008] [<fffff802607cf>] __lock_acquire+0x4e7/0xcac
[14315356.520008] [<fffff8025fe64>] ? trace_hardirqs_on+0xf1/0x115
[14315356.520008] [<fffff80272c3a>] ? disable_irq_nosync+0x6f/0x7b
[14315356.520008] [<fffff80261375>] lock_acquire+0x55/0x6e
[14315356.520008] [<ffffffa000c5fd>] ? :forcedeth:nv_set_settings+0xc8/0x3de
[14315356.520008] [<fffff80680b15>] _spin_lock+0x2f/0x3c
[14315356.520008] [<ffffffa000c5fd>] :forcedeth:nv_set_settings+0xc8/0x3de
[14315356.520008] [<fffff8058f8bb>] dev_ethtool+0x186/0xea3
[14315356.520008] [<fffff8067f446>] ? mutex_lock_nested+0x243/0x275
[14315356.520008] [<fffff8025df2b>] ? debug_mutex_free_waiter+0x46/0x4a
[14315356.520008] [<fffff8067f469>] ? mutex_lock_nested+0x266/0x275
[14315356.520008] [<fffff8058e1ce>] dev_ioctl+0x4eb/0x600
[14315356.520008] [<fffff8068106f>] ? _spin_unlock_irqrestore+0x3f/0x68
[14315356.520008] [<fffff80580f91>] sock_ioctl+0x1f5/0x202
[14315356.520008] [<fffff802a322e>] vfs_ioctl+0x2a/0x77
[14315356.520008] [<fffff802a34d6>] do_vfs_ioctl+0x25b/0x270
[14315356.520008] [<fffff806807b6>] ? trace_hardirqs_on_thunk+0x35/0x3a
[14315356.520008] [<fffff802a352d>] sys_ioctl+0x42/0x65
[14315356.520008] [<fffff8021fffb>] system_call_after_swaps+0x7b/0x80
[14315356.520008]
[14315356.786222] eth0: link down.
```

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[14315356.794850] eth1: link down.
[14315356.812266] br0: port 2(eth1) entering disabled state
[14315360.086673] eth1: link up.
[14315360.086679] br0: port 2(eth1) entering learning state
[14315360.850884] ALSA sound/pci/hda/hda_intel.c:1318: azx_pcm_prepare: bufsize=0x1800, format=0x4011
[14315360.867017] ALSA sound/pci/hda/hda_codec.c:716: hda_codec_setup_stream: NID=0x2, stream=0x5, channel=0, format=0x4011
[14315360.900023] ALSA sound/pci/hda/hda_codec.c:716: hda_codec_setup_stream: NID=0x4, stream=0x5, channel=0, format=0x4011
[14315360.917746] ALSA sound/pci/hda/hda_codec.c:716: hda_codec_setup_stream: NID=0x6, stream=0x5, channel=0, format=0x4011
[14315360.936740] ALSA sound/pci/hda/hda_codec.c:716: hda_codec_setup_stream: NID=0x5, stream=0x5, channel=0, format=0x4011
[14315360.953352] ALSA sound/pci/hda/hda_codec.c:716: hda_codec_setup_stream: NID=0xa, stream=0x5, channel=0, format=0x4011
[14315360.980039] ALSA sound/pci/hda/hda_codec.c:728: hda_codec_cleanup_stream: NID=0x4
[14315360.989433] ALSA sound/pci/hda/hda_codec.c:728: hda_codec_cleanup_stream: NID=0x6
[14315360.998047] ALSA sound/pci/hda/hda_codec.c:728: hda_codec_cleanup_stream: NID=0x5
[14315361.010006] ALSA sound/pci/hda/hda_codec.c:728: hda_codec_cleanup_stream: NID=0xa
[14315361.017106] ALSA sound/pci/hda/hda_codec.c:728: hda_codec_cleanup_stream: NID=0x2
[14315361.096677] br0: topology change detected, propagating
[14315361.102234] br0: port 2(eth1) entering forwarding state
[14315361.127387] warning: `ntpd' uses 32-bit capabilities (legacy support in use)
[14315370.790944] [drm] Initialized drm 1.1.0 20060810
[14315370.863426] ACPI: PCI Interrupt Link [APC7] enabled at IRQ 16
[14315370.873077] IOAPIC[0]: Set routing entry (4-16 -> 0x71 -> IRQ 16 Mode:1 Active:1)
[14315370.878347] ACPI: PCI Interrupt 0000:02:00.0[A] -> Link [APC7] -> GSI 16 (level, low) -> IRQ 16
[14315370.887791] PCI: Setting latency timer of device 0000:02:00.0 to 64
[14315370.894798] [drm] Initialized radeon 1.28.0 20060524 on minor 0
[14315372.590005] [drm] Setting GART location based on new memory map
[14315372.891221] [drm] Loading R300 Microcode
[14315372.895667] [drm] writeback test succeeded in 1 usecs
[14315498.823670] usb usb1: usb auto-resume
[14315498.828106] ehci_hcd 0000:00:02.1: resume root hub
[14315498.896667] hub 1-0:1.0: hub_resume
[14315498.900484] hub 1-0:1.0: state 7 ports 10 chg 0000 evt 0000
[14315501.576676] hub 1-0:1.0: hub_suspend
[14315501.580562] usb usb1: bus auto-suspend
[14315501.584590] ehci_hcd 0000:00:02.1: suspend root hub
[14315986.250681] PM: Hibernation mode set to 'platform'
[14315986.262135] PM: Marking nosave pages: 000000000009f000 - 0000000000100000
[14315986.268938] PM: Basic memory bitmaps created
[14315986.275559] PM: Syncing filesystems ... done.
[14315986.281302] Freezing user space processes ... (elapsed 0.01 seconds) done.
[14315986.302172] Freezing remaining freezable tasks ... (elapsed 0.00 seconds) done.
[14315986.311774] PM: Shrinking memory... - done (0 pages freed)
[14315986.381882] PM: Freed 0 kbytes in 0.06 seconds (0.00 MB/s)
[14315986.391641] hub 2-0:1.0: hub_suspend
[14315986.394524] usb usb2: bus suspend
[14315986.397661] ohci_hcd 0000:00:02.0: suspend root hub

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[14315986.402857] sd 0:0:0:0: [sda] Synchronizing SCSI cache
[14315986.416245] ACPI: PCI interrupt for device 0000:01:08.0 disabled
[14315986.422433] ACPI handle has no context!
[14315986.437294] ACPI: PCI interrupt for device 0000:00:09.0 disabled
[14315986.457213] ACPI: PCI interrupt for device 0000:00:08.0 disabled
[14315986.489964] ACPI: PCI interrupt for device 0000:00:06.1 disabled
[14315986.509671] ACPI: PCI interrupt for device 0000:00:05.2 disabled
[14315986.513325] ACPI: PCI interrupt for device 0000:00:05.1 disabled
[14315986.519720] ACPI: PCI interrupt for device 0000:00:05.0 disabled
[14315986.526071] ata8: port disabled. ignoring.
[14315986.532436] ACPI: PCI interrupt for device 0000:00:02.1 disabled
[14315986.536836] ehci_hcd 0000:00:02.1: ---> no state change
[14315986.543206] ACPI: PCI interrupt for device 0000:00:02.0 disabled
[14315986.548623] ohci_hcd 0000:00:02.0: ---> no state change
[14315986.555166] ACPI: Preparing to enter system sleep state S4
[14315986.563274] Extended CMOS year: 2000
[14315986.563274] PM: Creating hibernation image:
[14315986.563274] PM: Need to copy 81901 pages
[14315986.563274] PM: Normal pages needed: 81901 + 1024 + 38, available pages: 442001
[14315986.563274] PM: Hibernation image created (81901 pages copied)
[14315986.563274] x86 PAT enabled: cpu 0, old 0x7040600070406, new 0x7010600070106
[14315986.563274] svm_cpu_init: svm_data is NULL on 0
[14315986.563274] Extended CMOS year: 2000
[14315986.578298] ACPI: Unable to turn cooling device [ffff81007f842f50] 'off'
[14315986.585910] ohci_hcd 0000:00:02.0: PCI legacy resume
[14315986.592483] ACPI: PCI Interrupt 0000:00:02.0[A] -> Link [APCF] -> GSI 23 (level, low) -> IRQ 23
[14315986.601596] PCI: Setting latency timer of device 0000:00:02.0 to 64
[14315986.606980] ohci_hcd 0000:00:02.0: powerup ports
[14315986.635128] ehci_hcd 0000:00:02.1: PCI legacy resume
[14315986.639069] ACPI: PCI Interrupt 0000:00:02.1[B] -> Link [APCL] -> GSI 20 (level, low) -> IRQ 20
[14315986.648268] PCI: Setting latency timer of device 0000:00:02.1 to 64
[14315986.654320] PM: Writing back config space on device 0000:00:04.0 at offset 1 (was b00001, writing b00005)
[14315986.664193] PCI: Setting latency timer of device 0000:00:04.0 to 64
[14315986.672444] PM: Writing back config space on device 0000:00:05.0 at offset 1 (was b00003, writing b00007)
[14315986.686607] ata8: port disabled. ignoring.
[14315986.689887] ACPI: PCI Interrupt 0000:00:05.0[A] -> Link [APSI] -> GSI 23 (level, low) -> IRQ 23
[14315986.698256] PCI: Setting latency timer of device 0000:00:05.0 to 64
[14315986.704608] PM: Writing back config space on device 0000:00:05.1 at offset 1 (was b00003, writing b00007)
[14315986.714616] ACPI: PCI Interrupt 0000:00:05.1[B] -> Link [APSJ] -> GSI 22 (level, low) -> IRQ 22
[14315986.725062] PCI: Setting latency timer of device 0000:00:05.1 to 64
[14315986.730649] PM: Writing back config space on device 0000:00:05.2 at offset 1 (was b00003, writing b00007)
[14315986.740907] ACPI: PCI Interrupt 0000:00:05.2[C] -> Link [ASA2] -> GSI 21 (level, low) -> IRQ 21
[14315986.751487] PCI: Setting latency timer of device 0000:00:05.2 to 64
[14315986.757101] PCI: Setting latency timer of device 0000:00:06.0 to 64
[14315986.776624] PM: Writing back config space on device 0000:00:06.1 at offset f (was 5020200, writing 5020205)
[14315986.786839] PM: Writing back config space on device 0000:00:06.1 at offset 4 (was 0, writing

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fe020000)
[14315986.796835] PM: Writing back config space on device 0000:00:06.1 at offset 1 (was b00000, writing b00002)
[14315986.806652] ACPI: PCI Interrupt 0000:00:06.1[B] -> Link [AAZA] -> GSI 22 (level, low) -> IRQ 22
[14315986.815909] PCI: Setting latency timer of device 0000:00:06.1 to 64
[14315986.841174] ata7.01: ACPI cmd ef/03:44:00:00:00:b0 filtered out
[14315986.846526] ata7.01: ACPI cmd ef/03:0c:00:00:00:b0 filtered out
[14315986.853216] ata7: nv_mode_filter: 0x1f01f&0x1f01f->0x1f01f, BIOS=0x1f000 (0xc50000) ACPI=0x1f01f (600:30:0x1c)
[14315986.876773] ata7.01: configured for UDMA/66
[14315987.026629] ata1: SATA link up 3.0 Gbps (SStatus 123 SControl 300)
[14315987.044422] ata2: SATA link down (SStatus 0 SControl 300)
[14315987.053013] ata1.00: ACPI cmd ef/03:46:00:00:00:a0 filtered out
[14315987.056619] ata1.00: ACPI cmd f5/00:00:00:00:00:a0 filtered out
[14315987.086474] ata6: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
[14315987.100696] ata4: SATA link down (SStatus 0 SControl 300)
[14315987.106528] ata5: SATA link down (SStatus 0 SControl 300)
[14315987.113327] ata6.00: ACPI cmd ef/03:46:00:00:00:a0 filtered out
[14315987.119156] ata3: SATA link down (SStatus 0 SControl 300)
[14315987.130853] ata6.00: configured for UDMA/100
[14315987.135041] ata1.00: configured for UDMA/133
[14315987.139861] sd 0:0:0:0: [sda] 976773168 512-byte hardware sectors (500108 MB)
[14315987.149821] sd 0:0:0:0: [sda] Write Protect is off
[14315987.153694] sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
[14315987.159532] sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
[14315987.253291] PM: Writing back config space on device 0000:00:08.0 at offset f (was 14010100, writing 1401010a)
[14315987.263676] PM: Writing back config space on device 0000:00:08.0 at offset 7 (was 0, writing fe028000)
[14315987.273674] PM: Writing back config space on device 0000:00:08.0 at offset 6 (was 0, writing fe029000)
[14315987.283223] PM: Writing back config space on device 0000:00:08.0 at offset 5 (was 1, writing b001)
[14315987.293222] PM: Writing back config space on device 0000:00:08.0 at offset 4 (was 0, writing fe02a000)
[14315987.302646] PM: Writing back config space on device 0000:00:08.0 at offset 1 (was b00000, writing b00007)
[14315987.313036] eth0: no link during initialization.
[14315987.329957] PM: Writing back config space on device 0000:00:09.0 at offset f (was 14010100, writing 1401010a)
[14315987.340347] PM: Writing back config space on device 0000:00:09.0 at offset 7 (was 0, writing fe025000)
[14315987.350344] PM: Writing back config space on device 0000:00:09.0 at offset 6 (was 0, writing fe026000)
[14315987.359896] PM: Writing back config space on device 0000:00:09.0 at offset 5 (was 1, writing ac01)
[14315987.369897] PM: Writing back config space on device 0000:00:09.0 at offset 4 (was 0, writing fe027000)
[14315987.379327] PM: Writing back config space on device 0000:00:09.0 at offset 1 (was b00000, writing b00007)
[14315987.392577] PCI: Setting latency timer of device 0000:00:0a.0 to 64
[14315987.397575] PCI: Setting latency timer of device 0000:00:0e.0 to 64

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[14315987.416636] ACPI: PCI Interrupt 0000:01:08.0[A] -> Link [APC3] -> GSI 18 (level, low) -> IRQ 18
[14315987.435121] ACPI: PCI Interrupt 0000:02:00.0[A] -> Link [APC7] -> GSI 16 (level, low) -> IRQ 16
[14315987.444992] PCI: Setting latency timer of device 0000:02:00.0 to 64
[14315987.450509] sd 0:0:0:0: [sda] Starting disk
[14315987.461766] usb usb1: usb resume
[14315987.468753] ehci_hcd 0000:00:02.1: resume root hub
[14315987.536706] hub 1-0:1.0: hub_resume
[14315987.540738] usb usb2: usb resume
[14315987.544405] ohci_hcd 0000:00:02.0: resume root hub
[14315987.616616] hub 2-0:1.0: hub_resume
[14315987.620615] PM: writing image.
[14315987.624243] PM: Free swap pages: 977947
[14315987.631831] PM: Saving image data pages (82061 pages) ... 0% 1% 2%
3% 4% 5% 6% 7% 8% 9% 10% 11% 12%
13% 14% 15% 16% 17% 18% 19% 20% 21%
22% 23% 24% 25% 26% 27% 28% 29% 30%
31% 32% 33% 34% 35% 36% 37% 38% 39%
40% 41% 42% 43% 44% 45% 46% 47% 48%
49% 50% 51% 52% 53% 54% 55% 56% 57%
58% 59% 60% 61% 62% 63% 64% 65% 66%
67% 68% 69% 70% 71% 72% 73% 74% 75%
76% 77% 78% 79% 80% 81% 82% 83% 84%
85% 86% 87% 88% 89% 90% 91% 92% 93%
94% 95% 96% 97% 98% 99% A00% done
[14315991.823947] PM: Wrote 328244 kbytes in 4.18 seconds (78.52 MB/s)
[14315991.831374] PM: S
[14315992.111206] ohci_hcd 0000:00:02.0: Unlink after no-IRQ? Controller is probably using the wrong IRQ.
[14315992.125935] usb 2-3: usb suspend
[14315992.140442] usb 2-1: usb suspend
[14315992.156628] hub 2-0:1.0: hub_suspend
[14315992.160623] usb usb2: bus suspend
[14315992.164341] ohci_hcd 0000:00:02.0: suspend root hub
[14315992.169625] hub 1-0:1.0: hub_suspend
[14315992.176288] usb usb1: bus suspend
[14315992.177833] ehci_hcd 0000:00:02.1: suspend root hub
[14315992.182633] sd 0:0:0:0: [sda] Synchronizing SCSI cache
[14315992.189475] sd 0:0:0:0: [sda] Stopping disk
[14315992.623539] ACPI: PCI interrupt for device 0000:01:08.0 disabled
[14315992.630323] ACPI handle has no context!
[14315992.686627] ACPI: PCI interrupt for device 0000:00:06.1 disabled
[14315992.706451] ACPI: PCI interrupt for device 0000:00:05.2 disabled
[14315992.723228] ACPI: PCI interrupt for device 0000:00:05.1 disabled
[14315992.739839] ACPI: PCI interrupt for device 0000:00:05.0 disabled
[14315992.756495] ata8: port disabled. ignoring.
[14315992.771213] ACPI: PCI interrupt for device 0000:00:02.1 disabled
[14315992.789743] ehci_hcd 0000:00:02.1: ---> PCI D3/wakeup
[14315992.792010] ACPI: PCI interrupt for device 0000:00:02.0 disabled
[14315992.811783] ohci_hcd 0000:00:02.0: ---> PCI D3/wakeup
[14315992.815627] ACPI: Preparing to enter system sleep state S4
[14315992.825538] Extended CMOS year: 2000

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```
[14315992.826645] hwsleep-0324 [03] enter_sleep_state : Entering sleep state [S4]
[ 0.000000] Command line: root=/dev/sda5 resume=/dev/sda6 vga=6 apic=verbose console=ttyS0,115200
console=tty0 pci=noms no_console_suspend ro
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: 0000000000000000 - 000000000009f800 (usable)
[ 0.000000] BIOS-e820: 000000000009f800 - 00000000000a0000 (reserved)
[ 0.000000] BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)
[ 0.000000] BIOS-e820: 0000000000100000 - 0000000007fee000 (usable)
[ 0.000000] BIOS-e820: 0000000007fee000 - 0000000007fee3000 (ACPI NVS)
[ 0.000000] BIOS-e820: 0000000007fee3000 - 0000000007fef0000 (ACPI data)
[ 0.000000] BIOS-e820: 0000000007fef0000 - 0000000007ff00000 (reserved)
[ 0.000000] BIOS-e820: 000000000f0000000 - 000000000f4000000 (reserved)
[ 0.000000] BIOS-e820: 00000000fec00000 - 00000000100000000 (reserved)
[ 0.000000] max_pfn_mapped = 1048576
[ 0.000000] x86 PAT enabled: cpu 0, old 0x7040600070406, new 0x7010600070106
[ 0.000000] init_memory_mapping
[ 0.000000] DMI 2.4 present.
[ 0.000000] ACPI: RSDP 000F7D20, 0024 (r2 Nvidia)
[ 0.000000] ACPI: XSDT 7FEE3100, 004C (r1 Nvidia ASUSACPI 42302E31 AWRD 0)
[ 0.000000] ACPI: FACP 7FEEADC0, 00F4 (r3 Nvidia ASUSACPI 42302E31 AWRD 0)
[ 0.000000] ACPI: DSDT 7FEE3280, 7ACE (r1 NVIDIA AWRDACPI 1000 MSFT 3000000)
[ 0.000000] ACPI: FACS 7FEE0000, 0040
[ 0.000000] ACPI: SSDT 7FEEB000, 0136 (r1 PTLTD POWERNOW 1 LTP 1)
[ 0.000000] ACPI: HPET 7FEEB180, 0038 (r1 Nvidia ASUSACPI 42302E31 AWRD 98)
[ 0.000000] ACPI: MCFG 7FEEB200, 003C (r1 Nvidia ASUSACPI 42302E31 AWRD 0)
[ 0.000000] ACPI: APIC 7FEEAF00, 0098 (r1 Nvidia ASUSACPI 42302E31 AWRD 0)
[ 0.000000] early res: 0 [0-fff] BIOS data page
[ 0.000000] early res: 1 [6000-7fff] TRAMPOLINE
[ 0.000000] early res: 2 [200000-d3638f] TEXT DATA BSS
[ 0.000000] early res: 3 [9f800-ffff] BIOS reserved
[ 0.000000] early res: 4 [8000-bfff] PGTABLE
[ 0.000000] Zone PFN ranges:
[ 0.000000] DMA 0 -> 4096
[ 0.000000] DMA32 4096 -> 1048576
[ 0.000000] Normal 1048576 -> 1048576
[ 0.000000] Movable zone start PFN for each node
[ 0.000000] early_node_map[2] active PFN ranges
[ 0.000000] 0: 0 -> 159
[ 0.000000] 0: 256 -> 524000
[ 0.000000] Detected use of extended apic ids on hypertransport bus
[ 0.000000] ACPI: PM-Timer IO Port: 0x1008
[ 0.000000] ACPI: LAPIC (acpi_id[0x00] lapic_id[0x00] enabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x01] lapic_id[0x01] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x02] lapic_id[0x02] disabled)
[ 0.000000] ACPI: LAPIC (acpi_id[0x03] lapic_id[0x03] disabled)
[ 0.000000] ACPI: LAPIC_NMI (acpi_id[0x00] high edge lint[0x1])
[ 0.000000] ACPI: LAPIC_NMI (acpi_id[0x01] high edge lint[0x1])
[ 0.000000] ACPI: LAPIC_NMI (acpi_id[0x02] high edge lint[0x1])
[ 0.000000] ACPI: LAPIC_NMI (acpi_id[0x03] high edge lint[0x1])
[ 0.000000] ACPI: IOAPIC (id[0x04] address[0xfec00000] gsi_base[0])
[ 0.000000] IOAPIC[0]: apic_id 4, version 0, 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: INT_SRC_OVR (bus 0 bus_irq 14 global_irq 14 high edge)
[ 0.000000] ACPI: INT_SRC_OVR (bus 0 bus_irq 15 global_irq 15 high edge)
[ 0.000000] Setting APIC routing to flat
[ 0.000000] ACPI: HPET id: 0x10de8201 base: 0xfefff000
[ 0.000000] Using ACPI (MADT) for SMP configuration information
[ 0.000000] mapped APIC to ffffffff5fb000 ( fee00000)
[ 0.000000] mapped IOAPIC to ffffffff5fa000 (00000000fec00000)
[ 0.000000] PM: Registered nosave memory: 000000000009f000 – 00000000000a0000
[ 0.000000] PM: Registered nosave memory: 00000000000a0000 – 00000000000f0000
[ 0.000000] PM: Registered nosave memory: 00000000000f0000 – 0000000000100000
[ 0.000000] Allocating PCI resources starting at 80000000 (gap: 7ff00000:70100000)
[14315324.233334] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 513763
[14315324.233334] Kernel command line: root=/dev/sda5 resume=/dev/sda6 vga=6 apic=verbose
console=ttyS0,115200 console=tty0 pci=noms no_console_suspend ro
[14315324.233334] Initializing CPU#0
[14315324.233334] PID hash table entries: 4096 (order: 12, 32768 bytes)
[14315324.233334] Extended CMOS year: 2000
[14315324.233334] TSC calibrated against PM_TIMER
[14315324.233334] time.c: Detected 2411.116 MHz processor.
[14315324.233334] Console: colour VGA+ 80x60
[14315324.233334] console [tty0] enabled
[14315324.233334] console [ttyS0] enabled
[14315324.233334] Lock dependency validator: Copyright (c) 2006 Red Hat, Inc., Ingo Molnar
[14315324.233334] ... MAX_LOCKDEP_SUBCLASSES: 8
[14315324.233334] ... MAX_LOCK_DEPTH: 48
[14315324.233334] ... MAX_LOCKDEP_KEYS: 2048
[14315324.233334] ... CLASSHASH_SIZE: 1024
[14315324.233334] ... MAX_LOCKDEP_ENTRIES: 8192
[14315324.233334] ... MAX_LOCKDEP_CHAINS: 16384
[14315324.233334] ... CHAINHASH_SIZE: 8192
[14315324.233334] memory used by lock dependency info: 1648 kB
[14315324.233334] per task-struct memory footprint: 2688 bytes
[14315324.233334] Dentry cache hash table entries: 262144 (order: 9, 2097152 bytes)
[14315324.233334] Inode-cache hash table entries: 131072 (order: 8, 1048576 bytes)
[14315324.233334] Checking aperture...
[14315324.233334] Node 0: aperture @ 289c000000 size 32 MB
[14315324.233334] Aperture beyond 4GB. Ignoring.
[14315324.233334] No AGP bridge found
[14315324.233334] Memory: 2051692k/2096000k available (4624k kernel code, 43544k reserved, 2268k
data, 260k init)
[14315324.316528] Calibrating delay using timer specific routine.. 4827.99 BogoMIPS (lpj=8043188)
[14315324.322866] Mount-cache hash table entries: 256
[14315324.327216] CPU: L1 I Cache: 64K (64 bytes/line), D cache 64K (64 bytes/line)
[14315324.333327] CPU: L2 Cache: 512K (64 bytes/line)
[14315324.336660] CPU: AMD Athlon(tm) 64 Processor 3800+ stepping 01
[14315324.342949] ACPI: Core revision 20080321
[14315324.359992] Parsing all Control Methods:
[14315324.364011] Table [DSDT](id 0001) – 1203 Objects with 101 Devices 380 Methods 44 Regions
[[14315325.238441] system 00:0c: iomem range 0xffffed000–0xffffeffff could not be reserved
```

Re: [linux-pm] [PATCH 0/4] Fix forcedeth hibernate/wake-on-lan problems

[14315325.247394] PCI: Bridge: 0000:00:06.0
[14315325.251018] IO window: 9000-9fff
[14315325.254790] MEM window: disabled.
[14315325.259831] PREFETCH window: disabled.
[14315325.263697] PCI: Bridge: 0000:00:0a.0
[14315325.267727] IO window: 8000-8fff
[14315325.271501] MEM window: 0xfde00000-0xfdefffff
[14315325.276395] PREFETCH window: 0x00000000e8000000-0x00000000efffffff
[14315325.283110] PCI: Bridge: 0000:00:0e.0
[14315325.287142] IO window: 6000-7fff
[14315325.290913] MEM window: 0xfdd00000-0xfddfffff
[14315325.295811] PREFETCH window: disabled.
[14315325.300178] NET: Registered protocol family 2
[14315325.335996] IP route cache hash table entries: 65536 (order: 7, 524288 bytes)
[14315325.344142] TCP established hash table entries: 262144 (order: 10, 4194304 bytes)
[14315325.353337] TCP bind hash table entries: 65536 (order: 9, 3670016 bytes)
[14315325.365827] TCP: Hash tables configured (established 262144 bind 65536)
[14315325.372834] TCP reno registered
[14315325.385835] NET: Registered protocol family 1
[14315325.392305] Installing knfsd (copyright (C) 1996 okir@xxxxxxxxxxxxx).
[14315325.399441] JFFS2 version 2.2. (NAND) © 2001-2006 Red Hat, Inc.
[14315325.405968] fuse init (API version 7.9)
[14315325.410326] SGI XFS with security attributes, large block/inode numbers, no debug enabled
[14315325.419254] msgmni has been set to 4007 for ipc namespace ffffffff808882f0
[14315325.426697] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 254)
[14315325.434550] io scheduler noop registered
[14315325.439766] io scheduler anticipatory registered
[14315325.444075] io scheduler deadline registered
[14315325.449091] io scheduler cfq registered (default)
[14315325.466344] pci 0000:00:05.0: Enabling HT MSI Mapping
[14315325.471799] pci 0000:00:05.1: Enabling HT MSI Mapping
[14315325.476916] pci 0000:00:05.2: Enabling HT MSI Mapping
[14315325.482372] pci 0000:00:06.0: Enabling HT MSI Mapping
[14315325.487809] pci 0000:00:06.1: Enabling HT MSI Mapping
[14315325.493262] pci 0000:00:08.0: Enabling HT MSI Mapping
[14315325.498703] pci 0000:00:09.0: Enabling HT MSI Mapping
[14315325.504135] pci 0000:00:0a.0: Enabling HT MSI Mapping
[14315325.509588] pci 0000:00:0e.0: Enabling HT MSI Mapping
[14315325.515287] assign_interrupt_mode Found MSI capability
[14315325.520606] assign_interrupt_mode Found MSI capability
[14315325.526881] input: Power Button (FF) as /class/input/input0
[14315325.532858] ACPI: Power Button (FF) [PWR0]
[14315325.537449] input: Power Button (CM) as /class/input/input1
[14315325.543390] ACPI: Power Button (CM) [PWRB]
[14315325.549458] ACPI: PNPOC0B:00 is registered as cooling_device0
[14315325.555580] ACPI: Fan [FAN] (on)
[14315325.559460] ACPI: ACPI0007:00 is registered as cooling_device1
[14315325.566720] ACPI: Expecting a [Reference] package element, found type 0
[14315325.574102] ACPI: LNX_THERM:01 is registered as thermal_zone0
[14315325.580563] ACPI: Thermal Zone [THRM] (40 C)
[14315325.603595] Real Time Clock Driver v1.12ac

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```
[14315325.608075] Linux agpgart interface v0.103
[14315325.612547] Serial: 8250/16550 driver $Revision: 1.90 $ 4 ports, IRQ sharing disabled
[14315325.622760] serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[14315325.630102] 00:09: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
[14315325.637596] loop: module loaded
[14315325.641032] e1000e: Intel(R) PRO/1000 Network Driver - 0.3.3.3-k2
[14315325.647514] e1000e: Copyright (c) 1999-2008 Intel Corporation.
[14315325.653829] e100: Intel(R) PRO/100 Network Driver, 3.5.23-k4-NAPI
[14315325.660284] e100: Copyright(c) 1999-2006 Intel Corporation
[14315325.666293] tun: Universal TUN/TAP device driver, 1.6
[14315325.671712] tun: (C) 1999-2004 Max Krasnyansky <maxk@xxxxxxxxxxxx>
```