

# Linux 2.6.2-rc3

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-01/7829.html>

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**Date:** 01/31/04

Date: Fri, 30 Jan 2004 18:27:00 -0800 (PST)  
To: Kernel Mailing List <[linux-kernel@vger.kernel.org](mailto:linux-kernel@vger.kernel.org)>

The bulk of this is an ACPI update, but there's USB, ia-64, i2c, XFS and PCI hotplug updates here too.

Please don't send in anything but critical fixes until after the final 2.6.2 release.

Linus

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Summary of changes from v2.6.2-rc2 to v2.6.2-rc3  
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Alan Stern:

- o USB Storage: unusual\_devs update
- o USB: Don't dereference NULL actconfig
- o USB: Fix DMA coherence when reading device descriptor
- o USB: Update sound/usb/usbaudio.c

Andi Kleen:

- o Fix error checking in IPC\_SET

Andreas Schwab:

- o ia64: Fix xbow.c compilation

Andrew Morton:

- o ia64: i2c config fix
- o Fix CONFIG\_DEBUG\_SPINLOCK on UP
- o kbuildL fix cscope index generation
- o Fix two warnings on x86-64
- o Fix kernel\_flag again
- o pmdisk.c needs utsname.h
- o cpufreq: fix cpufreq\_update\_policy

Arjan van de Ven:

- o usb: remove some sleep\_on's

Ben Collins:

- o head.S
- o [SPARC64]: Changes to accomodate booting from non-phys\_base memory
- o [SPARC64]: Add \_end and \_start to list of sections
- o [SUNSUB]: Fixup sunsub\_receive\_chars for when serial console isn't open (no tty)

Bjorn Helgaas:

- o ia64: Kconfig cleanup, part 1
- o ia64: remove MCA (MicroChannel) cruft

Christoph Hellwig:

- o [XFS] Small ktrace fixes
- o [XFS] Simplify pagebuf\_rele / pagebuf\_free
- o [XFS] Don't fail pagebuf allocations

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- o [XFS] Stop using sleep\_on
  - o [XFS] Plug a pagebuf race that got bigger with the recent cleanup
- Dave Jones:
- o USB: fix suspicious pointer usage in kobil\_sct driver
- David Brownell:
- o USB gadget: net2280 controller updates
  - o USB gadget: add File-backed Storage Gadget (FSG)
  - o USB gadget: config/build updates
  - o USB gadget: zero config updates
  - o USB gadget: ethernet config updates
  - o USB gadget: serial driver config update
  - o USB: fix gadget config
- David Mosberger:
- o ia64: arch/ia64/Kconfig URL update: [www.linux-on-laptops.com](http://www.linux-on-laptops.com)
  - o ia64: Drop copyright notices on header files which are either entirely trivial
  - o ia64: Fix typo in comment in asm-ia64/posix\_types.h
  - o ia64: Patch by Jesse Barnes: remove unnecessary set\_affinity handler
  - o ia64: Fix merge error: remove duplicate NR\_CPUS
  - o ia64: Implement exception-table sorting for real
- David S. Miller:
- o [IPV6]: Fix TCP socket leak, do not grab socket reference when adding to main hashes
  - o [IRDA]: Mark init/exit functions of drivers static to fix build
  - o [SPARC64]: Remove interruptible\_sleep\_on() usage, with help from Tom Callaway
- Dirk Behme:
- o [ARM PATCH] 1749/1: Remove warnings in csumpartialcopygeneric.S
- Dominik Brodowski:
- o Validate ACPI CPU frequency values
- Frank Becker:
- o [ARM PATCH] 1744/1: SA Cerfboard/cube update (flash)
  - o [ARM PATCH] 1747/1: MIssing export for cpufreq
  - o [ARM PATCH] 1748/1: SA Cerfcube update (base+pcmica)
- Grant Grundler:
- o ia64: enable PIOW/DMAR relaxed ordering on ZX1
- Greg Kroah-Hartman:
- o USB storage: remove info sysfs file as it violates the sysfs 1 value per file rule
  - o USB: fix up emi drivers Kconfig dependancy
  - o USB: fix up whiteheat syntax errors from previous patch
  - o USB: add ohci support for OMAP controller
  - o I2C: remove printk() calls in lm85, and clean up debug logic
  - o PCI: add .owner field to the config sysfs file to be "correct"
  - o PCI: fix compiler warning in probe.c cause by PPC patch
- Herbert Xu:
- o USB Storage: revert freecom dvd-rw fx-50 usb-ide patch
- James Simmons:
- o fbdev booting fix
  - o fbdev documentation patch
- Jean Delvare:
- o I2C: undo documentation change
  - o I2C: Fix bus reset in i2c-philips-par
  - o I2C: Add ADM1025EB support to i2c-parport
  - o I2C: Bring lm75 and lm78 in compliance with sysfs naming conventions
- Jesse Barnes:
- o ia64: fix cast in irq\_lsapic.c
  - o ia64: kill some more warnings
- John Rose:
- o PCI: Allow pci hotplug drivers to initialize individual devices

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Kieran Morrissey:

- o PCI: name length change
- o PCI: pci.ids update

Leann Ogasawara:

- o PCI hotplug: pcihp\_zt5550.c ioremap/iounmap audit

Len Brown:

- o [ACPI] If ACPI is disabled by DMI BIOS date, then turn it off completely, including table parsing for HT.
- o [ACPI] In ACPI mode, delay print\_IO\_APIC() to make its output valid
- o [ACPI] print\_IO\_APIC() only after it is programmed  
[http://bugzilla.kernel.org/show\\_bug.cgi?id=1177](http://bugzilla.kernel.org/show_bug.cgi?id=1177)
- o [ACPI] "acpi\_pic\_sci=edge" in case platform requires Edge Triggered SCI [http://bugzilla.kernel.org/show\\_bug.cgi?id=1390](http://bugzilla.kernel.org/show_bug.cgi?id=1390)
- o [ACPI] fix compiler warning (Andrew Morton)
- o [ACPI] prevent ES7000 tweak from breaking i386 IOAPIC (Andrew de Quincey)
- o [ACPI] sync with 2.4.23 Re-enable IRQ balacning if IOAPIC mode  
[http://bugzilla.kernel.org/show\\_bug.cgi?id=1440](http://bugzilla.kernel.org/show_bug.cgi?id=1440)
- o [ACPI] add warning to thermal shutdown (Pavel Machek)
- o [ACPI] set APIC ACPI SCI OVR default to level/low  
[http://bugzilla.kernel.org/show\\_bug.cgi?id=1351](http://bugzilla.kernel.org/show_bug.cgi?id=1351)
- o [ACPI] replace multiple flags with acpi\_noirq -- ala 2.4
- o [ACPI] revert two fixes in preparation for ACPICA merge
- o [ACPI] update Linux to ACPICA 20031029 (Bob Moore)
- o [ACPI] Update Linux to ACPICA 20031203 (Bob Moore)
- o [ACPI] delete old \_TRA code formerly used just by IA64. (Bjorn Helgaas) The current approach is to walk the \_CRS in pcibios\_scan\_root() using acpi\_walk\_resources().
- o [ACPI] /proc/acpi files appear in /proc if acpi=off (Shaohua David Li)
- o [ACPI] set acpi\_disabled=1 on failure for clean /proc  
[http://bugzilla.kernel.org/show\\_bug.cgi?id=991](http://bugzilla.kernel.org/show_bug.cgi?id=991)
- o [ACPI] change hard-coded IO width to programmable width  
[http://bugzilla.kernel.org/show\\_bug.cgi?id=1349](http://bugzilla.kernel.org/show_bug.cgi?id=1349) from David Shaohua Li and Venatesh Pallipadi
- o [ACPI] ACPICA 20040116 from Bob Moore
- o [ACPI] acpi\_bus\_add() ignored \_STA's return value from Bjorn Helgaas
- o [ACPI] fix ACPI spec URL in comment - from Randy Dunlap
- o [ACPI] on SCI allocation failure, don't mistakenly free IRQ0 from Jes Sorensen
- o [ACPI] move zero initialized data to .bss from Jes Sorensen
- o [ACPI] handle system with NULL DSDT and valid XSDT from ia64 via Alex Williamson

Linda Xie:

- o PCI Hotplug: add unlimited PHP slot name lengths support

Linus Torvalds:

- o Move exception table sorting much earlier
- o Fix sha256 padding block initializer to be static
- o Linux 2.6.2-rc3

Marcelo Tosatti:

- o PC300 update

Mark M. Hoffman:

- o I2C: i2c-piix4.c bugfix

Martin Hicks:

- o ia64: add platform\_timer\_interrupt() hook
- o ia64: remove old sn1 machvec header file
- o Remove sn2 debug printk
- o PCI Hotplug: Trivial warning fix

Matthew Chapman:

- o ia64: Fix ptrace infrastructure some more so that strace'd sigreturn() works without trashing any registers.

## Linux-Kernel: Linux 2.6.2-rc3

Matthew Dobson:

- o PCI: add pci\_bus sysfs class

Matthew Wilcox:

- o PCI Hotplug: Better reporting of PCI frequency / bus mode problems for acpi driver
- o PCI: add pci\_get\_slot() function
- o PCI: fix pci\_get\_slot() bug

Michael Hunold:

- o dvb subsystem and saa7146 v4l fixes

Michael Schierl:

- o [APM] Is this the correct way to fix suspend bug introduced

Nathan Scott:

- o [XFS] Fix a warning from some gcc variants after recent flags botch
- o [XFS] Revert botched merge where KM\_NOFS check was unintentionally dropped
- o [XFS] Add the security extended attributes namespace
- o [XFS] Remove no-longer-needed debug symbol exports
- o [XFS] Sync up some missing header updates from local XFS tree

Oliver Neukum:

- o USB: fix whiteheat doing DMA to stack
- o USB: fix dma to stack in ti driver

Ralf Bächle:

- o PCI: fix probing for some mips systems

Rolf Eike Beer:

- o PCI Hotplug: Fixup pcihp\_skeleton.c

Russell Cattelan:

- o [XFS] Christoph has signed over copyrights
- o [XFS] Move bits around to better manage common code. No functional change

Russell King:

- o Prevent PCI driver registration failure oopsing
- o [ARM] Eliminate tsk->used\_math
- o [ARM] Fix bitops pointer qualifiers
- o [ARM] Add comments for newish functions in cacheflush.h
- o [ARM] Remove FP work-arounds

Stéphane Eranian:

- o ia64: fix icc compilation

Suresh B. Siddha:

- o ia64: replace inline assembly in sn2 code

Takayoshi Kochi:

- o PCI Hotplug: add address file and fix acpiphp bugs

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