

# Linux 2.6.24-rc6

---

*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-12/msg07669.html>

---

- *From:* Linus Torvalds <[torvalds@xxxxxxxxxxxxxxxxxxxxxx](mailto:torvalds@xxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Thu, 20 Dec 2007 17:41:09 -0800 (PST)
- 

The most noticeable part here (both to users and in the diffstat) should be the libata-acpi fixes by Tejun Heo, which should hopefully take care of all of the regressions that were caused by teaching SATA about doing the proper ACPI stuff at bootup/suspend/resume/shutdown.

Other changes visible in the diffstat are a couple of new watchdog drivers and the removal of the old tipar driver, and some Korean translations of the kernel docs. And some V4L videobuf changes.

Other than that, it's pretty much a lot of small fixes (maybe not one-liners, but we're talking "a few lines"). Networking, USB, scsi, wireless, infiniband, IDE... With some alpha, ia64 and x86 arch updates.

The regression list keeps shrinking, so we're still on track for a full 2.6.24 release in early January. Assuming we don't all overeat during the holidays and nobody gets any work done. But we all know that the holidays are really the time when we get away from the boring "real work", and can spend 24/7 on kernel hacking instead, right?

Here's to a merry christmas, doing the whole druidic festival around the tree thing,

Linus

---

Aaron Carroll (2):

as-iosched: fix incorrect comments

as-iosched: fix write batch start point

Adam Jackson (1):

apm\_event{,info}\_t are userspace types

Adrian Bunk (14):

V4L/DVB (6796): ivtv/ section fix

V4L/DVB (6797): bt8xx/ section fixes

V4L/DVB (6803): buf-core.c locking fixes

V4L/DVB (6814): Makefile: always enter video/  
drivers/net/sis190.c section fix

drivers/net/s2io.c section fixes  
wireless/ipw2200.c: add \_\_dev{init,exit} annotations  
drivers/cpufreq/cpufreq\_stats.c section fix  
block: let elv\_register() return void  
timer: kernel/timer.c section fixes  
x86 apic\_32.c section fix  
x86 smpboot\_32.c section fixes  
x86\_32: select\_idle\_routine() must be \_\_cpuinit  
x86\_32: disable\_pse must be \_\_cpuinitdata

Al Viro (5):  
sundance fixes  
starfire VLAN fix  
hamachi endianness fixes  
[SYNCPPP]: Endianness and 64bit fixes.  
sis190 endianness

Alan Cox (2):  
[SCSI] initio: fix conflict when loading driver  
pata\_hpt37x: Fix HPT374 detection

Alan Stern (2):  
USB: fix locking loop by avoiding flush\_scheduled\_work  
USB: use IRQF\_DISABLED for HCD interrupt handlers

Alasdair G Kergon (1):  
dm: trigger change uevent on rename

Alexey Starikovskiy (3):  
ACPI: SBS: Reset alarm bit  
ACPI: SBS: Ignore alarms coming from unknown devices  
ACPI: SBS: Return rate in mW if capacity in mWh

Amos Waterland (1):  
[IPV4]: Updates to nfsroot documentation

Andrew Morton (6):  
V4L/DVB (6819): i2c: fix drivers/media/video/bt866.c  
ucc\_geth: minor whitespace fix  
[TIPC]: Fix semaphore handling.  
bcm43xx\_debugfs sscanf fix  
fix headers\_install  
revert "Hibernation: Use temporary page tables for kernel text mapping on x86\_64"

Andrey Borzenkov (1):  
ACPI: battery: fix ACPI battery technology reporting

Andries E. Brouwer (1):  
ext3, ext4: avoid divide by zero

Anton Vorontsov (1):

ucc\_geth: really fix section mismatch

Arjan van de Ven (1):  
debug: add end-of-oops marker

Atsushi Nemoto (1):  
i2c-gpio: Initialize adapter class

Auke Kok (1):  
e100: free IRQ to remove warningwhenrebooting

Barry Kasindorf (1):  
oprofile: op\_model\_athlon.c support for AMD family 10h barcelona performance counters

Bartlomiej Zolnierkiewicz (13):  
ide-scsi: add ide\_scsi\_hex\_dump() helper  
ide: add missing checks for control register existence  
ide: deprecate CONFIG\_BLK\_DEV\_OFFBOARD  
ide: fix ide\_scan\_pcibus() error message  
ide: coding style fixes for drivers/ide/setup-pci.c  
ide: add /sys/bus/ide/devices/\*/model,firmware,serial sysfs entries  
ide: DMA reporting and validity checking fixes (take 3)  
ide-cd: remove dead post\_transform\_command()  
pdc202xx\_new: fix Promise TX4 support  
ide: remove dead code from \_\_ide\_dma\_test\_irq()  
ide: remove stale changelog from ide-disk.c  
ide: remove stale changelog from ide-probe.c  
ide: fix ->io\_32bit race in set\_io\_32bit()

Benjamin Herrenschmidt (1):  
usb: Remove broken optimisation in OHCI IRQ handler

Benoit Istin (1):  
V4L/DVB (6746): saa7134-dvb: fix tuning for WinTV HVR-1110

Boaz Harrosh (1):  
[SCSI] initio: bugfix for accessors patch

Brandon Philips (4):  
V4L/DVB (6601): V4L: videobuf-core locking fixes and comments  
V4L/DVB (6602): V4L: Convert videobuf drivers to videobuf\_stop  
V4L/DVB (6615): V4L: Fix VIDIOCGMBUF locking in saa7146  
V4L/DVB (6751): V4L: Memory leak! Fix count in videobuf-vmalloc mmap

Chris Dearman (1):  
[MIPS] Ensure that ST0\_FR is never set on a 32 bit kernel

Chris Pascoe (1):  
V4L/DVB (6629): zl10353: fix default adc\_clock and TRL nominal rate calculation

Christoph Hellwig (1):

[XFS] Fix mknod regression

Christoph Lameter (3):

SLUB: remove useless masking of GFP\_ZERO

quicklist: Set tlb->need\_flush if pages are remaining in quicklist 0

IA64: Slim down \_\_clear\_bit\_unlock

Corey Minyard (1):

[WATCHDOG] ipmi: add the standard watchdog timeout ioctls

Cyrill Gorcunov (2):

ieee80211\_rate: missed unlock

iwlwifi3945/4965: fix rate control algo reference leak

Dan Williams (1):

libertas: select WIRELESS\_EXT

Dave Jones (1):

cpufreq: fix missing unlocks in cpufreq\_add\_dev error paths.

Dave Young (1):

pktdvd: add kobject\_put when kobject register fails

David Brownell (2):

i2c/isp1301\_omap: Build fix

rtc-at32ap700x: fix irq init oops

David S. Miller (2):

[SPARC64]: Fix endless loop in cheetah\_xcall\_deliver().

[SPARC64]: Fix two kernel linear mapping setup bugs.

Dhaval Giani (1):

Add Documentation for FAIR\_USER\_SCHED sysfs files

Dmitry Adamushko (1):

sched: fix crash on ia64, introduce task\_current()

Doug Maxey (1):

usb-storage: Fix devices that cannot handle 32k transfers

Eric Dumazet (3):

[NETFILTER]: xt\_hashlimit should use time\_after\_eq()

parport: "dev->timeslice" is an unsigned long, not an int

sched: sysctl, proc\_dointvec\_minmax() expects int values for

Eric Sandeen (3):

ecryptfs: initialize new auth\_tokens before teardown

ecryptfs: set s\_blocksize from lower fs in sb

ecryptfs: fix fsx data corruption problems

Eric W. Biederman (1):

sysctl: fix ax25 checks

FUJITA Tomonori (1):  
[SCSI] st: fix kernel BUG at include/linux/scatterlist.h:59!

Gary Hade (2):  
ACPI: acpihp: Remove dmesg spam on device remove  
PCI: Restore PCI expansion ROM P2P prefetch window creation

Geert Uytterhoeven (1):  
ps3fb: Update for firmware 2.10

Geoff Levand (2):  
sparsemem: make SPARSEMEM\_VMEMMAP selectable  
ps3fb: Fix ps3fb free\_irq() dev\_id

Gilles Gigan (1):  
[WATCHDOG] add Nano 7240 driver

Greg Kroah-Hartman (2):  
kobject: fix the documentation of how kobject\_set\_name works  
USB: revert portions of "UNUSUAL\_DEV: Sync up some reported devices from Ubuntu"

Guillaume Chazarain (1):  
kbuild: re-enable Makefile generation in a new O=... directory

Hans Verkuil (1):  
V4L/DVB (6485): ivtv: fix compile warning

Hans-Christian Egtvedt (1):  
[WATCHDOG] at32ap700x\_wdt: add support for boot status and add fix for silicon errata

Hartmut Hackmann (1):  
V4L/DVB (6579): Fix bug #8824: Correct support for Diseqc on tda10086

Heikki Lindholm (2):  
V4L/DVB (6666): saa7134-alsa: fix period handling  
V4L/DVB (6690): saa7134: fix ignored interrupts

Henrique de Moraes Holschuh (1):  
ACPI: thinkpad-acpi: fix lenovo keymap for brightness

Herbert Xu (1):  
[IPSEC]: Fix potential dst leak in xfrm\_lookup

Hermann Pitton (1):  
V4L/DVB (6686): saa7134: fix composite over s-video input on the Tevion MD 9717

Hidetoshi Seto (2):  
[IA64] Remove assembler warnings on head.S  
[IA64] Adjust CMCI mask on CPU hotplug

Hinko Kocevar (2):

[IRDA]: mcs7780 needs to free allocated rx buffer.

[IRDA]: irlmp\_unregister\_link() needs to free lsaps.

Ian Wienand (1):

[IA64] set\_thread\_area fails in IA32 chroot

Ingo Molnar (4):

sched: touch softlockup watchdog after idling

sched: do not hurt SCHED\_BATCH on wakeup

x86: fix "Kernel panic - not syncing: IO-APIC + timer doesn't work!"

x86: fix die() to not be preemptible

Ivan Kokshaysky (3):

alpha: strncpy/strncat fixes

alpha: build fixes

mm: fix exit\_mmap BUG() on a.out binary exit

Jaime Velasco Juan (1):

USB: option: Bind to the correct interface of the Huawei E220

James Bottomley (1):

[SCSI] dpt\_i2o: driver is only 32 bit so don't set 64 bit DMA mask

James Lentini (1):

SUNRPC xprtrdma: fix XDR tail buf marshalling for all ops

Jan Beulich (3):

ACPI: fix modpost warnings

x86: also define AT\_VECTOR\_SIZE\_ARCH

[IA64] make flush\_tlb\_kernel\_range() an inline function

Jan Kara (1):

Fix compilation warning in dquot.c

Jarek Poplawski (1):

[AX25]: Locking dependencies fix in ax25\_disconnect().

Jason Gaston (1):

x86: intel\_cacheinfo.c: cpu cache info entry for Intel Tolapai

Jean Delvare (1):

i2c: Delete an outdated piece of documentation

Jeff Long (1):

USB: cp2101: new device id

Jiri Kosina (1):

V4L/DVB (6733): DVB: Compile 3000MC-specific DIB code only for CONFIG\_DVB\_DIB3000MC

Jiri Slaby (3):

[WATCHDOG] bfin\_wdt, remove SPIN\_LOCK\_UNLOCKED  
[WATCHDOG] Sbus: cpwatchdog, remove SPIN\_LOCK\_UNLOCKED  
Net: ibm\_newemac, remove SPIN\_LOCK\_UNLOCKED

Joachim Fenkes (3):

IB/ehca: Return correct number of SGEs for SRQ  
IB/ehca: Serialize HCA-related hCalls if necessary  
IB/ehca: Fix lock flag variable location, bump version number

Jochen Friedrich (2):

[POWERPC] Fix typo #ifdef -> #ifndef  
[POWERPC] Kill non-existent symbols from ksyms and commproc.h

Joe Perches (2):

i2c: Add missing spaces in split log messages  
[IA64] Two trivial spelling fixes

Jorge Boncompagni [DTI2] (1):

[WATCHDOG] IT8212F watchdog driver

Julia Lawall (4):

[UM]: Fix use of skb after netif\_rx  
[XTENSA]: Fix use of skb after netif\_rx  
[S390]: Fix use of skb after netif\_rx  
drivers/macintosh/via-pmu.c: Added a missing iounmap

Jun'ichi Nomura (1):

dm: table detect io beyond device

Kenji Kaneshige (1):

[IA64] Remove compiler warnings about uninitialized variable in irq\_ia64.c

Kevin Hilman (2):

[ARM] 4694/1: IXP4xx: Update clockevent support for shutdown and resume  
genirq: add unlocked version of set\_irq\_handler()

Komuro (1):

pcnet\_cs: add new id

Lachlan McIlroy (3):

[XFS] Don't wait for pending I/Os when purging blocks beyond eof.  
[XFS] Put the correct offset in dirent d\_off  
[XFS] Initialise current offset in xfs\_file\_readdir correctly

Larry Finger (1):

b43: Fix rfkill radio LED

Linus Torvalds (3):

Revert "make bnx2x select ZLIB\_INFLATE"  
Do dirty page accounting when removing a page from the page cache

Linux 2.6.24-rc6

Liu Yu (1):

[POWERPC] Fix rounding bug in emulation for double float operating

Livio Soares (1):

sched: mark rwsem functions as \_\_sched for wchan/profiling

Mark Fasheh (4):

ocfs2: fix exit-while-locked bug in ocfs2\_queue\_orphans()

ocfs2: Don't panic when truncating an empty extent

ocfs2: Allow for debugging of transaction extends

ocfs2: Re-journal buffers after transaction extend

Mark Lord (1):

sata\_mv: improve warnings about Highpoint RocketRAID 23xx cards

Martin Habetts (2):

[SERIAL] sparc: Infrastructure to fix section mismatch bugs.

[SPARC32]: Silence sparc32 warnings on missing syscalls.

Martin Schwidefsky (1):

[S390] pud\_present/pmd\_present bug.

Masami Hiramatsu (2):

x86: jprobe bugfix

x86: kprobes bugfix

Matheos Worku (1):

ixgb: make sure jumbos stay enabled after reset

Mauro Carvalho Chehab (5):

V4L/DVB (6542): Fix S-video mode on tvp5150

V4L/DVB (6581): Fix: avoids negative vma usage count

V4L/DVB (6750): Fix in-kernel compilation for cxusb

V4L/DVB (6794): Fix compilation when dib3000mc is compiled as a module

V4L/DVB (6609): Re-adds lock safe videobuf\_read\_start

Mel Gorman (1):

mm: fix page allocation for larger I/O segments

Michael Brunner (1):

[ARM] 4690/1: PXA: fix CKEN corruption in PXA27x AC97 cold reset code

Michael Chan (3):

[BNX2]: Add PHY\_DIS\_EARLY\_DAC workaround.

[BNX2]: Fix RX packet rot.

[BNX2]: Update version to 1.6.9.

Michael Ellerman (1):

[POWERPC] Make PS3\_SYS\_MANAGER default y, not m

Linux 2.6.24-rc6

Michael Krufky (1):

V4L/DVB (6798): saa7134: enable LNA in analog mode for Hauppauge WinTV HVR-1110

Mike Rapoport (1):

[ARM] 4667/1: CM-X270 fixes

Mike Travis (1):

x86: fix show cpuinfo cpu number always zero

Milan Broz (2):

dm crypt: fix write endio

dm crypt: use bio\_add\_page

Nathan Lynch (1):

fix bloat-o-meter for ppc64

Neil Brown (1):

dm: merge max\_hw\_sector

Nick Piggin (1):

[IA64] ia32 nopage

Nicolas Ferre (1):

USB: at91\_udc: correct hanging while disconnecting usb cable

Nicolas Pitre (1):

mmc: remove unused 'mode' from the mmc\_host structure

Nishanth Aravamudan (3):

hugetlb: introduce nr\_overcommit\_hugepages sysctl

Revert "hugetlb: Add hugetlb\_dynamic\_pool sysctl"

Documentation: update hugetlb information

Olaf Hartmann (1):

[IRDA]: stir4200 fixes.

Oliver Neukum (1):

[IRDA]: Race between open and disconnect in irda-usb.

Pablo Neira Ayuso (1):

[NETFILTER]: ctnetlink: set expected bit for related conntracks

Patrick McHardy (2):

[NETFILTER]: ip\_tables: fix compat copy race

[NETFILTER]: bridge: fix missing link layer headers on outgoing routed packets

Paul Moore (1):

[XFRM]: Display the audited SPI value in host byte order.

Paul Mundt (2):

net: smc911x: shut up compiler warnings  
dm mpath: hp requires scsi

Pavel Emelyanov (2):

[IPV4]: Swap the ifa allocation with the "ipv4\_devconf\_setall" call  
[VLAN]: Fix potential race in vlan\_cleanup\_module vs vlan\_ioctl\_handler.

Peter Zijlstra (1):

sched: rt: account the cpu time during the tick

Pierre Ossman (4):

sdhci: describe quirks  
sdhci: don't warn about sdhci 2.0 controllers  
sdhci: use PIO when DMA can't satisfy the request  
sdhci: support JMicron JMB38x chips

Ralf Baechle (3):

[MIPS] Atlas, Malta: Don't free firmware memory on free\_initmem.  
[MIPS] PCI: Make pcibios\_fixup\_device\_resources ignore legacy resources.  
[MIPS] time: Delete weak definition of plat\_time\_init() due to gcc bug.

Randy Dunlap (2):

usb.h: fix kernel-doc warning  
Cleanup umem driver: fix most checkpatch warnings, conform to kernel

Richard Knutsson (2):

V4L/DVB (6684): Complement va\_start() with va\_end() + style fixes  
[IRDA]: irda parameters warning fixes.

Romain Liévin (1):

tipar: remove obsolete module

Russ Anderson (1):

[IA64] Fix Altix BTE error return status

Samuel Tardieu (1):

[WATCHDOG] Stop looking for device as soon as one is found

Sascha Sommer (1):

V4L/DVB (6540): em28xx: fix failing autodetection after the reboot

Satoru SATOH (1):

[IPV4]: Make tcp\_input\_metrics() get minimum RTO via tcp\_rto\_min()

Scott Wood (2):

[POWRPC] CPM2: Eliminate section mismatch warning in cpm2\_reset().  
[POWERPC] 82xx: mpc8272ads, pq2fads: Update defconfig with CONFIG\_FS\_ENET\_MDIO\_FCC

Sergei Shtylyov (3):

hpt366: fix HPT37x PIO mode timings (take 2)  
[MIPS] Alchemy: fix PCI resource conflict

[MIPS] Alchemy: fix off by two error in \_\_fixup\_bigphys\_addr()

Shannon Nelson (2):

I/OAT: fixups from code comments

I/OAT: fix null device in call to dev\_err()

Sheela (1):

Fix lguest documentation

Shi Weihua (1):

[IA64] signal: remove redundant code in setup\_sigcontext()

Simon Horman (1):

[IA64] Guard elfcorehdr\_addr with #if CONFIG\_PROC\_FS

Stanislaw Gruszka (1):

uml: stop gdb from deleting breakpoints when running UML

Stefano Brivio (1):

libertas: add Dan Williams as maintainer

Stephen Hemminger (2):

sky2: RX lockup fix

[BRIDGE]: Assign random address.

Stephen Rothwell (1):

[POWERPC] iSeries: don't printk with HV spinlock held

Steven Rostedt (1):

genirq: revert lazy irq disable for simple irq

Steven Toth (1):

V4L/DVB (6820): s5h1409: QAM SNR related fixes

Tejun Heo (16):

sata\_sil: fix spurious IRQ handling

libata: clear link->eh\_info.error from ata\_std\_postreset()

libata: add ST3160023AS / 3.42 to NCQ blacklist

libata-acpi: adjust constness in ata\_acpi\_gtm/stm() parameters

libata: update ata\_\*\_printk() macros such that level can be a variable

libata: add more opcodes to ata.h

libata: ata\_dev\_disable() should be called from EH context

libata-acpi: add new hooks ata\_acpi\_dissociate() and ata\_acpi\_on\_disable()

libata-acpi: implement and use ata\_acpi\_init\_gtm()

libata-acpi: implement dev->gtf\_cache and evaluate \_GTF right after \_STM during resume

libata-acpi: improve ACPI disabling

libata-acpi: improve \_GTF execution error handling and reporting

libata-acpi: implement \_GTF command filtering

libata: update atapi\_eh\_request\_sense() such that lbam/lbah contains buffer size

libata: fix ATAPI draining

block: use jiffies conversion functions in scsi\_ioctl.c

Thomas Gleixner (1):  
clockevents: fix reprogramming decision in oneshot broadcast

Thomas Graf (2):  
[IPv4] ESP: Discard dummy packets introduced in rfc4303  
[IPv6] ESP: Discard dummy packets introduced in rfc4303

Tom "spot" Callaway (1):  
[ATM]: Fix compiler warning noise with FORE200E driver

Tony Battersby (2):  
[SCSI] sym53c8xx: fix free\_irq() regression  
[SCSI] sym53c8xx: fix "irq X: nobody cared" regression

Tony Luck (1):  
[IA64] print kernel release in OOPS to make kerneloops.org happy

Trond Myklebust (5):  
NFS: Fix NFS mountpoint crossing...  
NFSv2/v3: Fix a memory leak when using -onolock  
Revert "NFS: Ensure we return zero if applications attempt to write zero bytes"  
NFS: Fix an Oops in NFS unmount  
MAINTAINERS: update the NFS CLIENT entry

Tsugikazu Shibata (1):  
HOWTO: Change man-page maintainer address for Japanese HOWTO

Ulrich Kunitz (1):  
zd1211rw: Fix alignment problems

Uwe Kleine-König (2):  
[ARM] 4710/1: Fix coprocessor 14 usage for debug messages via ICEDCC  
fs/Kconfig: grammar fix

Vlad Yasevich (1):  
[SCTP]: Flush fragment queue when exiting partial delivery.

WANG Cong (2):  
mm/sparse.c: check the return value of sparse\_index\_alloc()  
mm/sparse.c: improve the error handling for sparse\_add\_one\_section()

Wang Chen (1):  
[NET]: Fix wrong comments for unregister\_net\*

Wei Yongjun (1):  
[IPV6]: Fix the return value of ipv6\_getsockopt

William Lee Irwin III (1):  
ACPI: video\_device\_list corruption

YOSHIFUJI Hideaki (1):

[IPV6] XFRM: Fix auditing rt6i\_flags; use RTF\_XXX flags instead of RTCF\_XXX.

Yoichi Yuasa (1):

[MIPS] time: Set up Cobalt's mips\_hpt\_frequency

Zhu Yi (1):

iwlwifi: fix rf\_kill state inconsistent during suspend and resume

agilmore@xxxxxxxxxxxxxxxxxxxxxx (1):

USB: sierra: fix product id

barrios (2):

add stable\_api\_nonsense.txt in korean

HOWTO: update misspelling and word incorreced

de Dinechin, Christophe (Integrity VM) (1):

[IA64] Avoid unnecessary TLB flushes when allocating memory

minchan kim (1):

HOWTO: change addresses of maintainer and lxr url for Korean HOWTO

---

To unsubscribe from this list: send the line "unsubscribe linux-kernel" in the body of a message to majordomo@xxxxxxxxxxxxxxxxxxxx

More majordomo info at <http://vger.kernel.org/majordomo-info.html>

Please read the FAQ at <http://www.tux.org/lkml/>