

# Linux 2.6.5-rc1

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-03/3760.html>

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**From:** Linus Torvalds ([torvalds\\_at\\_osdl.org](mailto:torvalds_at_osdl.org))

**Date:** 03/16/04

Date: Mon, 15 Mar 2004 21:58:53 -0800 (PST)  
To: Kernel Mailing List <[linux-kernel@vger.kernel.org](mailto:linux-kernel@vger.kernel.org)>

Here's the current set of patches I've merged from various poeple..

Merging from Andrew, but also i2c updates, ALSA CVS merge, netconsole, prism54 driver merge, sata updates, carmel driver, pcmcia and nfs client updates..

And a few architectures updated: ia64, ppc32, sparc32, arm.

Linus

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Summary of changes from v2.6.4 to v2.6.5-rc1
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<aurelien:aurel32.net>:
  o I2C: New chip driver: ds1621
<bunk:de.rmk.(none)>:
  o [SERIAL] serialP.h: remove a kernel 2.2 #ifdef
<clemmy:clemmy.org>:
  o I2C: add w83627hf driver
<colin:gibbsonline.net>:
  o [NET_SCHED]: Use time_after, fixes htb on 64-bit arch
<dave.jiang:intel.com>:
  o I2C: IOP3xx i2c driver update
<edwardsg:sgi.com>:
  o ia64: fix missing include in include/asm-ia64/sn/router.h
<jonas.larsson:net.rmk.(none)>:
  o [ARM PATCH] 1753/1: Devfs support for the 21285 serial driver - try
    2
<komoriya:paken.org>:
  o I2C: it87 reset option
<paul:wagland.net>:
  o Set module owner in megaraid driver
<perrye:linuxmail.org>:
  o I2C: i2c-voodoo3.c needs I2C_ADAP_CLASS_TV_ANALOG
<sryoungs:au.rmk.(none)>:
  o [SERIAL] Add alias for TTY_MAJOR character device
<tim:cambrant.com>:
  o [VLAN]: Use array for static const char 'fmt'
Adrian Bunk:
  o I2C: update I2C help text
Alex Williamson:
  o ia64: minor 2.6 sba_iommu update
Andi Kleen:
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## Linux-Kernel: Linux 2.6.5-rc1

- o netpoll for 3c59x
- o netpoll for tulip
- o netpoll for amd8111e
- o Netpoll for pcnet32
- o fix tg3 netpoll
- o netpoll for eepr100
- o x86-64 merge for 2.6.4
- o Fix a 64bit bug in kobject module request
- o Fix CONFIG\_DEBUG build on x86-64 & small cleanup

Andreas Schwab:

- o ia64: Fix staircase effect on Altix serial console

Andrew Morton:

- o fix netpoll printk bug
- o netconsole warning fix
- o eepr100.c warning fix
- o ini9100u build fix
- o gcc-3.5: acpi build fix
- o print kernel version in oops messages
- o ppc64: fix initialisation of NUMA arrays
- o Clean up sys\_ioperm stubs
- o readdir() cleanups
- o adaptive lazy readahead
- o read-only support for UFS2
- o fb\_console\_init fix
- o time interpolator fix
- o teach /proc/kmsg about O\_NONBLOCK
- o remove \_\_io\_virt\_debug
- o genrtc: cleanups
- o i386 very early memory detection cleanup patch
- o Allow X86\_MCE\_NONFATAL to be a module
- o dm: endio method
- o dm: list\_for\_each\_entry audit
- o dm: default queue limits
- o dm: list targets cmd
- o dm: stripe width fix
- o selinux: clean up binary mount data
- o UDF filesystem update
- o kbuild: Remove CFLAGS assignment in i386/mach-\*/Makefile
- o NUMA-aware zonelist builder
- o Redundant unplug\_timer deletion
- o compiler.h scoping fixes
- o Fix elf mapping of the zero page
- o kbuild: Cause `make clean' to remove more files
- o LOOP\_CHANGE\_FD ioctl
- o loop setup race fix
- o kbuild: fix usage with directories containing '.o'
- o Remove unneeded unlock in ipc/sem.c
- o /proc data corruption check
- o Enable i810 fb on x86-64
- o Remove arbitrary #acl entries limits on ext[23] when reading
- o watchdog: moduleparam-patches
- o AMD ELAN Kconfig fix
- o fadvise(POSIX\_FADV\_DONTNEED) fixups
- o Fix and harden validate\_mm
- o current\_is\_keventd() speedup
- o Fix rootfs on ramdisk
- o Fix reading the last block on a bdev
- o wavfront.c needs syscalls.h
- o EDD: Get Legacy Parameters
- o cciss: init section fix
- o add nowarn to a few pte chain allocators
- o Disable Macintosh device drivers for all but PPC || MAC

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- o Applicom warning
  - o Fix CONFIG\_NVRAM dependencies
  - o fix raid0 readahead size
  - o Fix NULL pointer dereference in blkmd.c
  - o fbdev: monitor detection fixes
  - o m68k: \_\_test\_and\_set\_bit()
  - o m68k: Amiga Framemaster II fb sysfsification
  - o Apollo fb sysfsification
  - o m68k: Macintosh IDE fixes
  - o m68k: interrupt management cleanups
  - o Add barriers to avoid race in mempool\_alloc/free
  - o synclinkmp.c update
  - o synclink\_cs.c update
  - o synclink.c update
  - o vm: per-zone vmscan instrumentation
  - o return remaining jiffies from blk\_congestion\_wait()
  - o Narrow blk\_congestion\_wait races
  - o mm/vmscan.c: remove unused priority argument
  - o kswapd throttling fixes
  - o vmscan: preserve page referenced info in refill\_inactive()
  - o shrink\_slab: math precision fix
  - o vm: shrink slab evenly in try\_to\_free\_pages()
  - o vmscan: fix calculation of number of pages scanned
  - o vm: scan slab in response to highmem scanning
  - o vmscan: zone balancing fix
  - o vmscan: drive everything via nr\_to\_scan
  - o Balance inter-zone scan rates
  - o vmscan: avoid bogus throttling
  - o kswapd: avoid unnecessary reclaiming from higher zones
  - o kswapd: fix lumpy page reclaim
  - o fix the kswapd zone scanning algorithm
  - o vmscan: less throttling of page allocators and kswapd
  - o vmscan: batch up inactive list scanning work
  - o fix vm-batch-inactive-scanning.patch
  - o vm: balance inactive zone refill rates
  - o vmscan: add lru\_to\_page() helper
  - o slab: avoid higher-order allocations
  - o ppc64: fix NUMA compile with large cpumasks
  - o Use 64-bit counters for scheduler stats
  - o Manfred's patch to distribute boot allocations across nodes
  - o further \_\_KERNEL\_SYSCALLS\_\_ removal
  - o use wait\_task\_inactive() in kthread\_bind()
  - o md: use "schedule\_timeout()" instead of yield()
  - o md: allow assembling of partitioned arrays at boot time
  - o Work around an AMD768MPX erratum
  - o DMA: Fill gaping hole in DMA API interfaces
  - o module unload deadlock fix
  - o gcc-3.5 libata build fix
  - o move consistent\_dma\_mask to the generic device
  - o s390: update for altered page\_state structure
  - o \_\_kill\_pg\_info() return value fix
  - o cdev: warning fix
  - o generic 32 bit emulation for System-V IPC
- Angelo Dell'Aera:
- o [TCP]: Clean up some westwood comments
- Anton Blanchard:
- o fix ppc64 in kernel syscalls
- Aristeu Sergio Rozanski Filho:
- o qllogicfas: use a static string as name
  - o qllogic\_cs: don't release region
  - o qllogic\_cs: use a static string as name
  - o qllogic\_cs: use scsi\_host\_put

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- o qllogicfas: force can\_queue
  - o qllogic\_cs: use own detect and release functions
  - o qllogic\_cs: don't call qllogic\_release on fail
  - o qllogicfas: kill QL\_USE\_IRQ
  - o qllogicfas: use qllogicfas\_name instead qinfo
  - o qllogicfas: begin to convert qllogicfas to new driver
  - o qllogicfas: disable irqs on exit
  - o qllogicfas: support multiple cards
  - o qllogicfas: move common definitions to qllogicfas.h
  - o qllogicfas: finish to convert to new scsi driver
  - o qllogic\_cs: use own MODULE\_ macros
- Arjan van de Ven:
- o xirc2ps ethtool fix
- Bartlomiej Zolnierkiewicz:
- o update for pdc202xx\_new driver
  - o ide-disk.c: cleanup get\_command()
  - o remove ide\_cmd\_type\_parser() logic
  - o remove IDE\_\*\_OFFSET\_HOB and IDE\_\*\_REG\_HOB defines
  - o remove ide\_init\_drive\_taskfile()
  - o piix\_ide\_init() can be \_\_init
- Benjamin Herrenschmidt:
- o G5 temperature control update
  - o ppc32: Fix G5 config space access lockup
- Bjorn Helgaas:
- o [SERIAL] fix PCI interrupt setting for ia64
- Brian King:
- o SCSI: Recognize device type 0x0C
  - o SCSI Midlayer initiated START\_UNIT
- Chas Williams:
- o [ATM]: [suni] dev\_data should really be phy\_data
- Chris Wright:
- o Patch to hook up PPP to simple class sysfs support
  - o class\_simple clean up in lp
  - o class\_simple cleanup in input
  - o class\_simple cleanup in misc
  - o class\_simple cleanup in sg
- Christoph Hellwig:
- o ia64: simserial module refcounting update
- Dave Jones:
- o sort SCSI blacklist
  - o USB 6-in-1 card reader blacklist addition
  - o Remove unneeded cast
  - o Whitespace fixes
  - o Fix sysfs leak
- David Mosberger:
- o ia64: Move irq\_enter()/irq\_exit() from hardirq.h to irq\_ia64.c.  
The work done by these routines is very special and needs to be done at exactly the right time. Removing it from the header-file reduces the risk of accidental misuse. Other arch maintainers agree that this is the Right Thing to do.
  - o ia64: Rename ia64\_invoke\_kernel\_thread\_helper() to start\_kernel\_thread() for symmetry with start\_kernel() and to make it obvious when the end of the call-chain has been reached.
  - o ia64: More SAL cleanups/fixes
  - o ia64: Reserve 3 syscall numbers for Andi Kleen's NUMA interface
  - o ia64: fix preempt bug in IA32 subsystem
- David S. Miller:
- o [IPV6]: Kill unused warnings in addrconf.c
  - o [SOUND]: Fix typo in SBUS memalloc changes
  - o [NETDEV]: pcnet32, eepr100, and 8139too need asm/irq.h
  - o [SPARC]: Include linux/linkage.h in asm/unistd.h
- Deepak Saxena:

## Linux-Kernel: Linux 2.6.5-rc1

- o I2C: Support for IXP42x GPIO-based I2C
- Don Fry:
- o pnet32 correct names for changes
  - o netdevice.h add netif\_msg\_init helper
- Greg Kroah-Hartman:
- o I2C: fix oops in i2c-ali1535 driver if no hardware is present
  - o I2C: fix compiler warnings in 2 drivers
  - o I2C: show adapter name in i2c-dev class directory to make it easier for userspace tools
  - o I2C: keep i2c-dev numbers in sync with i2c adapter numbers
  - o Driver core: make CONFIG\_DEBUG\_DRIVER implementation a whole lot cleaner
  - o Kobject: add decl\_subsys\_name() macro for users who want to set the subsystem name
  - o PCI Hotplug: use the new decl\_subsys\_name() macro instead of rolling our own
  - o remove cdev\_set\_name completely as it is not needed
  - o I2C: fix up CONFIG\_I2C\_DEBUG\_BUS logic to be simpler on the .c files
  - o I2C: fix up CONFIG\_I2C\_DEBUG\_CORE logic to be simpler on the .c files
  - o I2C: add CONFIG\_I2C\_DEBUG\_ALGO to be consistent
  - o I2C: fix up CONFIG\_I2C\_DEBUG\_CHIP logic to be simpler on the .c files
  - o I2C: delete the i2c-elv.c driver as it is obsoleted by the i2c-parport.c driver
  - o I2C: delete the i2c\_philips-par.c and i2c-veleman.c drivers
  - o kref: add kref structure to kernel tree
- James Bottomley:
- o SCSI: mptfusion update to 3.00.04
  - o Add SCSI lots of disk support
  - o Add SCSI transport attributes
  - o Add full complement of SPI transport attributes
  - o SCSI: Make SPI transport attributes mutable
  - o SCSI: implement transport attributes for 53c700
  - o fix Kconfig select problem with SCSI\_SPI\_ATTRS
  - o CONFIG\_SCSI\_AIC7XXX Kconfig bug
  - o Make the SCSI mempool allocations variable
  - o MPT Fusion driver 3.01.00 update
  - o MPT Fusion driver 3.01.01 update
  - o add device quiescing to the SCSI API
  - o more SPI transport attribute updates
  - o update the 53c700 use of transport attributes
  - o Add Domain Validation to the SPI transport class
  - o Fix removable USB drive oops
  - o Add Domain Validation to 53c700 driver
  - o Fix voyager to boot again
- James Morris:
- o [CRYPTO]: Fix arc4 test vector
- Jamie Lenehan:
- o dc395x [1/5] - formatting cleanups
  - o dc395x [2/5] - sg list handling cleanups
  - o dc395x [3/5] - remove old debugging stuff
  - o dc395x [4/5] - debugging cleanup
  - o dc395x [5/5] - version update
- Jaroslav Kysela:
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Intel8x0 driver
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> AC97 Codec Core
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> AC97 Codec Core
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> USB generic driver
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Digigram VX core
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Documentation,ALSA

## Linux-Kernel: Linux 2.6.5-rc1

- Core,PCI drivers,MIXART driver,IGNORE
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Digigram VX core
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> ICE1712 driver,ICE1724 driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Intel8x0 driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> VIA82xx driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> AC97 Codec Core
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> AC97 Codec Core Clemens Ladisch <clemens@ladisch.de>:
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> USB generic driver Clemens Ladisch <clemens@ladisch.de>:
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Digigram VX core Alain Cretet <cretet@digigram.com>:
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Digigram VX core Alain Cretet <cretet@digigram.com>:
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> ALSA sequencer
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> AC97 Codec Core
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> Intel8x0 driver Added spinlock to pointer callback - ichdev->position is not changed atomically
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> VIA82xx driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> MIXART driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Intel8x0 driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> ALSA<-OSS sequencer
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA<-OSS emulation Added period\_frames to fix poll behavior
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA<-OSS emulation Fixed oss.period\_frames setup
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> PCM Midlevel Added OSS period frames to proc interface
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA<-OSS emulation Fixed oops regarding last period\_frames update
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> USB generic driver Clemens Ladisch <clemens@ladisch.de>:
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> AC97 Codec Core Fixed swap\_headphone() when headpone controls do not exist
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> Trident driver Fixed s/pdif control initialization
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> RME HDSP driver Fixed wrong assert, added checks for copy\_\*\_user functions
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA sequencer Clemens Ladisch <clemens@ladisch.de> Timestamping (if enabled on a subscription or a port) is not applied to the quoted event but to the quoting event. This patch adds a function to copy only selected fields into the event to be delivered.
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> MPU401 UART Clemens Ladisch <clemens@ladisch.de> remove unneeded technical information from port names
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA sequencer Clemens Ladisch <clemens@ladisch.de> This patch reverses the order of the 'Rawmidi x' and rawmidi name parts of client names to enable selecting clients by a unique prefix (as snd\_seq\_parse\_address does).
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> USB generic driver Clemens Ladisch <clemens@ladisch.de>
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA sequencer Clemens Ladisch <clemens@ladisch.de>
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> MIXART driver Added missing header file inclusion
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> Documentation,ALSA Core,PCMCIA Kconfig,PCMCIA Sound Core PDAudioCF driver Added Sound Core PDAudioCF driver

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- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> EMU10K1/EMU10K2 driver Fixed page overflow
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> Serial BUS drivers Moved AK4117 from alsa-driver tree to satisfy dependency for PDAudioCF driver
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> AK4117 receiver Added missing ak4117.h file
- o Fixed compilation of PDAudioCF driver
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> USB generic driver usb\_ch9.h is already included in usb.h
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> ALS4000 driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> CMIPCI driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Documentation
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> AC97 Codec Core
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> MIXART driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> PCM Midlevel, Intel8x0 driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> VIA82xx driver
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> EMU10K1/EMU10K2 driver James Courtier-Dutton <James@superbug.demon.co.uk>, some additions
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> Sound Core PDAudioCF driver akpm@osdl.org Fix pdaudiocf\_irq.c for gcc-3.5
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Documentation
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> VIA82xx driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> PPC Tumbler driver fixed the resume of bass/treble volumes on snapper.
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA Core Fixed snd\_info\_set\_text\_ops() wwhen CONFIG\_PROC\_FS is not defined
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> Sound Core PDAudioCF driver Fixed pcm->name settings
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> AK4531 codec Aux Input Route -> Aux Capture Route renaming
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> PCI drivers Select CONFIG\_VIDEO\_DEV when CONFIG\_SND\_FM801\_TEA575X is wanted
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> OPL3,OPL4,Synth Fixed sequencer dependency for opl3, opl4 and emux objects.
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> PCI drivers <akpm@osdl.org> fix Kconfig thinko
- o ALSA - 1.0.3
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> FM801 driver tea575x can be module, too
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> Big DMA cleanup originated by Russell King <rmk+alsa@arm.linux.org.uk>
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> CMI8330 driver,ES18xx driver,AD1816A driver,AD1848 driver,CS4231 driver ES1688 driver,GUS Library,Opti9xx drivers,SB16/AWE driver,SB8 driver Fixed old function name (snd\_pcm\_isa\_flags -> snd\_pcm\_dma\_flags)
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA Core Russell King <rmk+alsa@arm.linux.org.uk>
- o ALSA CVS update - Clemens Ladisch <clemens@ladisch.de> USB generic driver Fix for Creamware Noah:
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Memalloc module,ALSA Core
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> ES1968 driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Intel8x0 driver
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Memalloc module
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> Intel8x0 driver Converted to new DMA allocation API
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ARM,ALSA Core,Generic drivers,ISA,PARISC,PCI drivers,PCMCIA Kconfig,PPC

## Linux-Kernel: Linux 2.6.5-rc1

- SPARC,USB This is part of a patch series to clean up sound/core/Makefile in Linux 2.6.4-rc1.
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA Core,Generic drivers,ISA,PCI drivers,USB Russell King <rmk+alsa@arm.linux.org.uk>
  - o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA Core,ISA,PCI drivers,PCMCIA Kconfig Russell King <rmk+alsa@arm.linux.org.uk>
  - o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA Core,Generic drivers Russell King <rmk+alsa@arm.linux.org.uk>
  - o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> Generic drivers,MPU401 UART,OPL3,OPL4,ISA,PCI drivers More Kconfig and Makefile cleanups following Russell's direction:
  - o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> Generic drivers,Digigram VX core,PCI drivers,PCMCIA Kconfig More Kconfig and Makefile cleanups following Russell's direction:
  - o ALSA CVS update - Clemens Ladisch <clemens@ladisch.de> USB generic driver
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Memalloc module fixed the missing inclusion.
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> PCI drivers,AC97 Codec Core
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Memalloc module
  - o ALSA CVS update - Clemens Ladisch <clemens@ladisch.de> USB generic driver fixes for broken SB Audigy 2 NX descriptors
  - o ALSA - fixed compilation
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> ALSA Core
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> PPC Tumbler driver
  - o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ICE1724 driver,ICE1712 driver Dirk Kalis <Dirk.Kalis@t-online.de> Added num\_total\_adcs.
  - o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA<-OSS sequencer mpkelly - fixed channel settings for input events
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Opti9xx drivers fixed the code with obsolete check\_region().
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> AC97 Codec Core,Intel8x0 driver,VIA82xx driver,CS46xx driver
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Intel8x0 driver fixed the interrupt problem with NForce(2).
  - o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> PCM Midlevel Fix in playback\_silence routine - don't silence whole buffer at start if samples are filled
  - o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> ALSA Core PCM API is 2.0.6
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Memalloc module,PCM Midlevel,ALSA Core,CMI8330 driver,ES18xx driver Sound Scape driver,AD1816A driver,AD1848 driver,CS4231 driver ES1688 driver,GUS Library,Opti9xx drivers,SB16/AWE driver,SB8 driver ALS4000 driver,AZT3328 driver,BT87x driver,CMIPCI driver,CS4281 driver ENS1370/1+ driver,ES1938 driver,ES1968 driver,FM801 driver Intel8x0 driver,Maestro3 driver,RME32 driver,RME96 driver SonicVibes driver,VIA82xx driver,ALI5451 driver,CS46xx driver EMU10K1/EMU10K2 driver,ICE1712 driver,ICE1724 driver,KORG1212 driver MIXART driver,RME HDSP driver,RME9652 driver,Trident driver YMFPCI driver,Sound Core PDAudioCF driver,USB generic driver
  - o ALSA CVS update - Takashi Iwai <tiwai@suse.de> PARISC Harmony driver,SPARC AMD7930 driver,SPARC cs4231 driver fixed for the new DMA buffer handler.
  - o ALSA - fix compilation (header files)
  - o ALSA CVS update - Clemens Ladisch <clemens@ladisch.de> ALSA sequencer remove superfluous call to snd\_seq\_event\_port\_detach
  - o ALSA CVS update - Clemens Ladisch <clemens@ladisch.de> ALSA sequencer,ALSA<-OSS sequencer use wrapper function for DELETE\_PORT

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ioctl calls

- o ALSA CVS update - Clemens Ladisch <clemens@ladisch.de> USB generic driver use MIN\_PACKS\_URB as lower bound for nrpacks parameter
- o ALSA CVS update - Clemens Ladisch <clemens@ladisch.de> USB generic driver show one decimal place of momentary frequency in proc file
- o ALSA CVS update - Clemens Ladisch <clemens@ladisch.de> USB generic driver prevent twenty-seconds wait when unplugging USB MIDI device with a port subscription
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> VIA82xx driver restrict the PCM sample rates to 32, 44.1 and 48kHz when the SPDIF switch is on.
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> DT019x driver Fixed warnings
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> VIA82xx driver patch was applied wrongly. fixed the rate restriction of spdif output again.
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Documentation,PCI drivers,au88x0 driver added the au88x0 drivers for Aureal soundcards by Manuel Jander <mjander@embedded.cl>
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> PPC Tumbler driver added input source switch to select mic/line-in.
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Documentation changed the description of the buffer allocation routines for the new designed functions.
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Documentation fixed the files to include.
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> USB generic driver added fix and workaround for the mixer problem on SB Extigy.
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> PPC Tumbler driver fixed the info callback of mixer input source (for enum type).
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> au88x0 driver removed EXPORT\_NO\_SYMBOLS.
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> EMU10K1/EMU10K2 driver disabled Dell OEM Emu10k1x from the pci id list.
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> MIXART driver fixed the compile warning.
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Documentation,PCI drivers,ATIIXP driver added snd-atiixp driver for the ATI IXP150/200/250 AC97 controllers.
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> Documentation,PCI drivers,Intel8x0-modem driver added Intel-compatible onboard MC97 modem driver by Sasha Khapyorsky <sashak@smlink.com>
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> ALSA Core added the new magic numbers for atiixp and au88x0 drivers.
- o ALSA CVS update - Takashi Iwai <tiwai@suse.de> ALSA Core fixed the wrong release of id proc file.
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> Intel8x0 driver Added slot definitions for s/pdif pcm - ICH4
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> AC97 Codec Core Kevin Mack <kevmack@accesscomm.ca> Here's a quick and dirty patch that's given me basic sound from my Gateway M675 notebook (Sigmatel 9758 AC97 codec).
- o ALSA CVS update - Clemens Ladisch <clemens@ladisch.de> Documentation,MPU401 UART integrate MPU-401 ACPI PnP from alsa-driver
- o ALSA CVS update - Clemens Ladisch <clemens@ladisch.de> au88x0 driver fix compilation on gcc 2.95.x
- o ALSA CVS update - Clemens Ladisch <clemens@ladisch.de> Intel8x0 driver add Intel ICH6 and ESB
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> au88x0 driver Make mchannels and rampchs static
- o ALSA CVS update - Jaroslav Kysela <perex@suse.cz> au88x0 driver

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Fixed gameport dependency and solid kernel build

Jean Delvare:

- o I2C: Enable debugging in fscher
- o I2C: Credit James Bolt in w831785ts
- o I2C: New chip driver ported: lm80
- o I2C: fix space in message
- o I2C: fix mor rmmmod oopses
- o I2C: Lowercase chips name
- o I2C: fix Hangs with w83781d
- o I2C: fix it87 sensor type
- o I2C: fix another oops in i2c-core with debug
- o I2C: Remove asb100 support from w83781d
- o I2C: update for sysfs-interface documentation
- o I2C: rename sysfs files, part 1 of 2
- o I2C: rename sysfs files, part 2 of 2
- o I2C: Prevent i2c-dev oops with debug
- o I2C: fix i2c adapters class for now
- o I2C: Kconfig for non-sensors i2c chip drivers
- o I2C: Cleanup fan\_div in w83781d
- o I2C: fix forced i2c chip drivers have no name
- o I2C: Don't handle kind errors that cannot happen
- o I2C: Setting w83781d fan\_div preserves fan\_min

Jeff Garzik:

- o [libata] make set\_{pio,udma}mode hooks optional
- o [wireless] Add new Prism54 wireless driver
- o [wireless prism54] remove WIRELESS\_EXT ifdefs
- o Add Promise SX8 (carmel) block driver
- o [libata] clean up module\_init() hook of sata\_{promise,sil,svw} drivers
- o [blk carmel] fix bug, minor cleanups
- o [libata sata\_sil] remove incorrect limit on drive quirk
- o [libata] disable clustering by default, whitespace cleanups
- o [libata] kill the warning everybody grumbles about

Jens Axboe:

- o user data -> request mapping
- o CDROMREADAUDIO dma support
- o sys\_swapon bad arg causing slab corruption

Jeremy Higdon:

- o SCSI: remove some SGI devices from the device list
- o [libata] Split up shared IO register locations into individual components
- o [libata] misc fixes, and an export
- o [libata] Add new driver for Vitesse VSC-7174
- o update for sata\_vsc

Jesse Barnes:

- o ia64: Don't assume iosapic interrupt controllers
- o ia64: fix misc. sn2 warnings

Jonathan Corbet:

- o cdev 1/2: Eliminate /sys/cdev
- o cdev 2/2: hide cdev->kobj

Kai Mäkisara:

- o SCSI tape sysfs name fixes

Keith M. Wesolowski:

- o [SPARC32]: Rework the CPU enumeration and probing code
- o [SPARC32]: Also remove num\_cpus\_possible as was done on sparc64
- o [SPARC32]: Fix build; we don't need KERNEL\_SYSCALLS but asm/unistd.h is necessary
- o [SBUS]: Fix sound build if CONFIG\_SBUS is set
- o [SPARC32]: Add per-cpu data header

Kenji Kaneshige:

- o ia64: don't unmask iosapic interrupts by default

Krishna Kumar:

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- o [IPV4]: Do not leak cork.opt in ip\_push\_pending\_frames()
- Kumar Gala:
- o PPC32: Added big-endian cfg\_addr access
  - o PPC32: Simplified handling of big/little endian pci indirect access
- Kurt Garloff:
- o SCSI sysfs host name support
- Leann Ogasawara:
- o Add sysfs simple class support for netlink
  - o Fix class\_register() always returns 0
  - o add sysfs simple class support for DRI char device
- Len Brown:
- o asmlinkage acpi\_enter\_sleep\_state\_s4bios() - from Pavel Machek
  - o [ACPI] comments
  - o [ACPI] global lock macro fixes (Paul Menage, Luming Yu)  
[http://bugzilla.kernel.org/show\\_bug.cgi?id=1669](http://bugzilla.kernel.org/show_bug.cgi?id=1669)
  - o Delete (void)func() casts considered cruft in Linux style
  - o [ACPI] fix printk and build warning from previous csets
  - o [ACPI] SMP poweroff (David Shaohua Li)  
[http://bugzilla.kernel.org/show\\_bug.cgi?id=1141](http://bugzilla.kernel.org/show_bug.cgi?id=1141)
  - o [ACPI] ACPICA 20040311 from Bob Moore
  - o [ACPI] add boot parameters "acpi\_osi=" and "acpi\_serialize"  
acpi\_osi= will disable the \_OSI method -- which by default tells the BIOS to behave as if Windows is the OS.
- Linus Torvalds:
- o Revert attribute\_used changes in module.h. They were wrong
  - o Linux 2.6.5-rc1
- Manfred Spraul:
- o forcedeth update
- Marc Singer:
- o [ARM PATCH] 1772/1: ARM README changes
- Marcel Holtmann:
- o [Bluetooth] Make use of the MODULE\_VERSION macro
  - o [Bluetooth] Fix compile errors with enabled debugging
  - o [Bluetooth] Declare more functions static
- Mark Haverkamp:
- o aacraid driver patch
  - o add adapter support to aacraid driver (update)
- Mark M. Hoffman:
- o PCI: fix i2c quirk for SiS735 chipset SMBus driver
  - o I2C: sysfs interface update for w83627hf
  - o I2C: sensor chip driver refactoring
- Matt Mackall:
- o [NET] add netpoll API
  - o [NET] Add netpoll support for tg3
  - o [NET] use the netpoll API to transmit kernel printks over UDP
  - o netpoll: fix compilation with CONFIG\_NETPOLL\_RX
  - o netpoll: push zap\_completion\_queue for lkcd
  - o netpoll abort for bad interface
  - o [netdrv] add netpoll support to several 8390-based drivers
  - o netconsole init return code
  - o netconsole init return code
  - o netpoll carrier handling
  - o fix for netpoll braindamage for 64-bit
- Matthew Wilcox:
- o ia64: add zx1\_defconfig
  - o ia64: SAL cleanup
  - o ia64: Add support for extended PCI config space
  - o ia64: Convert to use the generic drivers/Kconfig mechanism
  - o sym2 2.1.18i
  - o PA-RISC update
- Mike Christie:
- o add missing free sgtable in scsi\_init\_io error path

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Naveen Burmi:

- o New SCSI host\_byte status code

Pat Gefre:

- o ia64: fix SN2 console driver to use console\_initcall()
- o ia64: minor cleanups for SN2 console driver
- o ia64: Altix affinity fix

Paul Wagland:

- o SCSI: megaraid /proc dir fix

Pavel Machek:

- o [netdrv via-rhine] add netpoll support

Prasanna S. Panchamukhi:

- o [netdrv smc-ultra] netpoll support
- o [netdrv tlan] netpoll support

Randy Dunlap:

- o I2C: fix i2c-prosavage.c section usage
- o buslogic init. section fix
- o eeepro init section usage
- o smctr: fix init section usage
- o use netdev\_priv() in appletalk & fc
- o use netdev\_priv() in /hamradio/
- o use netdev\_priv() in 3com net drivers
- o use netdev\_priv() in net/ lance drivers
- o use netdev\_priv() in net/arm drivers
- o use netdev\_priv() in net/ intel drivers
- o use netdev\_priv() in net/pcmcia/ drivers
- o use netdev\_priv() in net/tulip drivers
- o use netdev\_priv() in net/tokenring/ drivers
- o use netdev\_priv() in net/wireless/ drivers
- o use netdev\_priv() in tap/tun/plip/loop/skel
- o use netdev\_priv() in fusion/mptlan
- o use netdev\_priv() in net/wan drivers
- o use netdev\_priv() in drivers/net/ (others)

Rene Herman:

- o 8139too assertions

Russell King:

- o I2C: Fix i2c\_use\_client()
- o [PCMCIA] Add, fix, update PCMCIA debugging
- o [PCMCIA] Clean up socket state handling around shutdown
- o [PCMCIA] Rename driver services constants
- o [PCMCIA] move\_pcmcia\_bind\_device
- o [PCMCIA] move\_pcmcia\_bind\_mtd
- o [PCMCIA] move pcmcia\_report\_error and cs\_error
- o [PCMCIA] socket user operations should take pcmcia\_socket
- o [ARM] Update ARM README
- o [ARM] Update mach-types file
- o [ARM] Provide userspace method for controlling LEDs in ARM machines
- o [ARM] Move consistent\_XXX exports to arch/arm/mm/consistent.c
- o [ARM] Remove export of kd\_mkssound
- o [ARM] Allow run-time selection of user debugging messages
- o [ARM] Add asm/irq.h include - required for NR\_IRQS

Rusty Russell:

- o drivers\_net\_wireless\_airo.c '< 0' comparison make sense

Scott Feldman:

- o [netdrv e100] fix stray skb pointer

Stephen Hemminger:

- o 3c59x netpoll typo
- o [TUN]: Name fix
- o [TUN]: Do not obscure error return from misc\_register in tun\_init
- o [TUN]: Fix user buffer verification
- o [TCP]: Kill westwood bw\_sample, set but never used
- o [NET]: Make netdevice.h more non-kernel friendly

Stephen Rothwell:

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- o fix PPC64 iSeries virtual console devices
- Tom Rini:
- o PPC32: More cleanups of the IBM Spruce code
  - o PPC32: Fix a thinko in the gen550 code
  - o PPC32: Make {in,out}[bwl] be consistent on all platforms
  - o PPC32: Make sure the read in in\_8, in\_{le,be}{16,32} happens before we return
  - o PPC32: print useful flags in oops, like x86 / ppc64
  - o PPC32: Kill off arch/ppc/boot/prep and rearrange some files
  - o PPC32: Update the TODC code from 2.4
  - o PPC32: Add and make use of ppc\_md.rtc\_{read,write}\_val
  - o PPC32: Fix 'make znetboot' on CONFIG\_PPC\_MULTIPLATFORM
  - o PPC32: Fix an old thinko in arch/ppc/boot/simple/relocate.S
  - o PPC32: Update the Motorola PowerPlus family support
  - o PPC32: Fix include/asm-ppc/dma-mapping.h for the !CONFIG\_PCI case
  - o PPC32: consistent\_free only takes one argument
- Trond Myklebust:
- o NFSv2/v3/v4: New attribute revalidation code that no longer relies on ctime for correctness in avoiding update races.
  - o NFSv2/v3/v4: New file writeout strategy. Defer writes until a flush is requested by the application (or memory pressure).
  - o Configuration: simplify configuration options. Automatically select RPCSEC\_GSS if NFSv4 is selected. Remove need for user to select SUNRPC\_GSS, and the crypto options.
  - o NFSv2/v3: Ensure that we only use GETATTR+STATFS (NFSv2) and FSINFO (NFSv3) when mounting. This should allow us to use AUTH\_SYS credentials when mounting, (even when the user requests RPCSEC\_GSS authentication) due to the hack described in RFC2623.
  - o NFSv2/v3/v4: Ensure that fsync() flushes all writebacks to disk rather than just the
  - o NFSv2/v3/v4: A patch by Greg Banks that fixes the "VFS: Busy inodes after unmount." problem.
  - o RPC: Make XIDs unique on a per-transport basis rather than globally unique. Gets rid
  - o RPC: Sync rpc\_set\_timeo() up to the 2.4.x version. In particular, this will ensure that the timeout shift is clamped to a maximum value of 8.
  - o RPC: Ensure that we have the correct capabilities when binding a socket to a reserved port. Fixes a privilege bug when CONFIG\_SECURITY is set.
  - o RPC,NFSv2/v3/v4: Ensure that xpirt\_create\_proto() and rpc\_create\_client() return full error codes. Should allow the "mount" program to print more useful error diagnostics.
  - o NFSv2/v3/v4: Parenthesize #defines in nfs?xdr.c. Fix an off-by-one error on the value
  - o NFSv2/v3 locking: Patch by Patrice Dumas to implement nlmsvc\_proc\_granted\_res
  - o NFSv2/v3 locking: Patch by Patrice Dumas that adds a check to ensure we really were requesting a blocking lock when we get a reply from the server asking us to block.
  - o NFSv2/v3 locking: Patch by Patrice Dumas to ensure that the server index blocks uniquely by using the client address in addition to the value of the NLM cookie field.
  - o NFSv2/v3 locking: A patch to ensure that blocks which are not going to time out are placed last on the ordered list nlm\_block (problem reported by Olaf Kirch).
  - o RPC,NFSv3: remove the redundant "memset()" in call\_encode(). Fix up the only places where this causes a padding error: xdr\_encode\_fhandle() and unix\_marshall()
  - o RPC: patch by Chuck Lever to make the number of RPC slots a tunable parameter
  - o NFSv2: Fix up NFSv2 reads so that they report when the server

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returned a short read due to EOF.

- o NFSv4: Fix a list corruption in the NFSv4 state engine
- o NFS: From the suse kernel RPM: handle ENOMEM from nfs\_fhget()
- o From: <martin@meltin.net>
- o akpm@odsl.org: For complex reasons it is not possible to hold i\_sem in nfs\_update\_inode()

Tuncer M. Zayamut Ayaz:

- o [IPVS]: Fix typo in Config.in

Wim Van Sebroeck:

- o [WATCHDOG] v2.6.4 pcwd\_pci-v1.00\_20040313-patch
- o [WATCHDOG] v2.6.4 wdt977-v0.03-patch
- o [WATCHDOG] v2.6.4 notifier\_block-patches

Yoshinori Sato:

- o H8/300: Interrupt handling cleanup
- o H8/300: fix build error
- o H8/300: fix warning
- o H8/300: makefile cleanup

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