

Linux 2.6.9-rc2

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-09/4268.html>

From: Linus Torvalds (torvalds_at_osdl.org)

Date: 09/13/04

Date: Mon, 13 Sep 2004 09:40:49 -0700 (PDT)
To: Kernel Mailing List <linux-kernel@vger.kernel.org>

Various things all over the map, most of them not necessarily very visible to most people. ALSA update, and tons of small fixes pretty much everywhere.

The one thing that people may actually *_notice_* is that you get a lot more warnings for some drivers due to the stricter type-checks for PCI memory mapping. They are harmless (code generation should be the same), and we'll work on trying to fix up the drivers as we go along, but they can be a bit daunting if you happen to enable some of the less type-friendly drivers right now..

Linus

Summary of changes from v2.6.9-rc1 to v2.6.9-rc2

=====

Aaron Grothe:

- o [CRYPTO]: Add Whirlpool digest algorithm

Adam Kropelin:

- o preset loops_per_jiffy for faster booting
- o input: Fix hiddev disconnect-while-in-use oops
- o input: Eliminate hiddev.h dependency on hid.h

Adrian Bunk:

- o update contact address for SCSI megaraid.c
- o SCSI ips: remove inlines
- o another small advansys cleanup
- o drivers/scsi/sg.c kill local jiffies functions
- o SCSI dc395x.c: fix inline compile errors
- o SCSI nsp32.c: remove inlines
- o let AIC7{9,X}XX_BUILD_FIRMWARE depend on
- o SCSI nsp32.c: missing parts of inline removal patch
- o SCSI gdth: kill #define __devinitdata
- o Alex DeVries has moved
- o R8169_NAPI help text

- o net/smc9194.c: fix gcc-3.5 inline compile errors
- o net/hamachi.c: gcc-3.5 build fixes
- o net/rrunner.c: gcc-3.5 fixes
- o net/tulip/dmfe.c: gcc-3.5 fixes
- o ixgb_main.c: fix inline compile errors
- o sk98lin/skge.c doesn't compile with PROC_FS=n
- o fix net/hamradio/dmascc with gcc 3.4
- o really uninline lmc_trace
- o pcxx.c build fix
- o riscom8 build fix
- o cdu31a.c build fix

Akinobu Mita:

- o show Active/Inactive on per-node meminfo
- o [IA64] discontig.c: reset counters every iteration each node in show_mem()

Al Borchers:

- o USB: update Edgeport io_usbvend.h
- o USB: update Edgeport io_fw_down.h
- o USB: update Edgeport io_fw_down3.h

Alan Cox:

- o ipr: Fix assorted dma_addr_t typing errors
- o ide: do hwif spin up for all platforms
- o ide: quiten hwif spin up
- o ide: fix bad disk geometry hang
- o ide: identify non decoded master/slave by serial and model
- o VLAN support for 3c59x/3c90x
- o Root reservations for strict overcommit
- o fix the barrier IDE detection logic
- o ide: update comments in ide.c and ide-probe.c
- o ide: remove never changing FANCY_STATUS_DUMPS define

Alan Stern:

- o USB: Set QH bit in UHCI framelist entries
- o USB: Fix submission-error bug in the USB scatter-gather
- o USB: unusual_devs.h entry
- o USB: Update unlink testing code in the usbtst driver
- o USB: Use 8-byte hub status URB buffer
- o USB: Add missing cleanup to usb_register_root_hub()

Alex Sanks:

- o USB: net2280 patch

Alexander Shatohin:

- o Typo in drivers/net/dl2k.h

Alexander Viro:

- o /dev/ptmx open() fixes
- o removed bogus casts of SPIN_LOCK_UNLOCKED

- o annotation of ki_buf
- o annotation of xfs sendfile
- o killed check_region() in ixj
- o signed char bugs in ixj
- o warning fix in usb/gadget/inode.c
- o usb alignment fixes
- o mda dependency
- o mpoa warning fix
- o NULL noise removal
- o missing export of memchr on arm
- o missing include of config.h in asm–alpha/page.h
- o bad names of local–in–macros in arm io.h
- o check_region() removal in tc/zs.c
- o check_region() removal in fdomain.c
- o any2_scsi() cleaned up
- o signed char fixes in qd65xx
- o more size_t portability fixes
- o check_region() removal in waveartist
- o preprocessor mess in msnd
- o casts are not lvalues
- o soundblaster check_region() removal
- o sscap cleanup, fixes and check_region() removal
- o trix cleanup and check_region() removal
- o mad16 cleanup, fixes and check_region() removal
- o pss cleanup, fixes and check_region() removal
- o sgalaxy cleanup and check_region() removal
- o opl3 cleanup and check_region() removal
- o ad1848 check_region() removal
- o maui cleanup, fixes and check_region() removal
- o cmpci cleanup
- o mpu401 check_region() removal
- o wf_midi check_region() removal
- o 64bit cleanup in bt878 and btaudio
- o 64bit portability fixes (pointer–to–int stuff)
- o arm Kconfig fixes
- o misc sound/oss bits
- o checksum.h annotations
- o misc alpha bits
- o ifdef fixes
- o NULL noise removal in usb/gadget
- o missing includes from irq changes
- o mmc annotation
- o missing include compiler.h in arm memory.h
- o alpha warning fixes
- o usx2y cleanups and fixes
- o missing include in pcm_native.c
- o acpi/processor.c 64bit portability
- o acpiphp_ibm.c 64bit portability
- o alpha csum_partial_copy.c annotations
- o netfilter warning (alpha)
- o mixart cleanups

- o sparc64 vga.h fix
- o __setup fixes
- o more NULL noise removal
- o eicon annotation
- o megaraid annotation
- o afs ->follow_link() fixes
- o sysfs ->follow_link() switched to new scheme
- o ncpfs ->follow_link() switched to new scheme
- o cifs ->follow_link() switched to new scheme, cleaned up
- o reduce stack use in altroot handling
- o misc cleanup in symlink-handling part of namei.c
- o nfs ->follow_link() switched to new scheme
- o adfs endianness fixes
- o ext2 endianness fixes
- o msdos and vfat endianness fixes
- o acorn partitions endianness fixes
- o UDF endianness fixes
- o quota minor endianness fixes
- o beginning of endianness annotations
- o ext2 endianness annotations
- o adfs endianness annotations
- o affs endianness annotations
- o udf endianness annotations
- o CIFSSMBLock() endianness fix
- o more endianness breakage (CIFSSMBLock(), again)
- o CIFSSMBNegotiate endianness fix
- o CIFSSMBQueryReparseLinkInfo() endianness fix

Andi Kleen:

- o gcc-3.5 fixes to advansys
- o [IA64] various issues in the IA64 swiotlb code
- o New x86-64 merge
- o md: make MD no device warning KERN_WARNING
- o Fix warnings in es7000
- o x86_64: emulate NUMA on non-NUMA hardware
- o [CPUFREQ] Fix cosmetic issue in powernow-k8 error handling
- o Add support for NUMA discovery on AMD dual core to x86-64
- o Fix boot_cpu_data on x86-64
- o Increase bus/apic limits on x86-64
- o Fix argument checking in sched_setaffinity
- o [NET]: Fix CONFIG_COMPAT build with networking disabled
- o [NET]: Do less atomic count changes in dev_queue_xmit
- o Cleanup & fix lost ticks handling on x86-64
- o Work around gcc 3.5 offsetof bug
- o [NET]: NETIF_F_LLTX for devices
- o [TG3]: Add LLTX support
- o [E1000]: Add LLTX support
- o [NET]: Improve netdev->hard_start_xmit() documentation

Andrea Arcangeli:

- o Correctly handle d_path error returns

Andreas Schwab:

- o [IA64] <asm-ia64/acpi.h> still declares deleted acpi_register_irq
- o [IA64] acpi.c: export pm_power_off for use by ipmi_poweroff module

Andrew Chew:

- o This patch updates include/linux/pci_ids.h with the CK804 audio controller ID, and adds the CK804 audio controller to the sound/pci/intel8x0.c audio driver.
- o sata_nv: fix CK804 support

Andrew Morton:

- o Fix sparc compile error in dma-mapping.h
- o mptbase.c warning fix
- o sg.c: remove unused sg_jif_to_ms()
- o megaraid build fix
- o schedstat: UP fix
- o uml: CPU scheduler update
- o first/next_cpu returns values > NR_CPUS
- o alloc_pages priority tuning
- o USB: legousbtower.c module_param fix
- o file_ra_state_init speedup
- o eata_pio.c warning fix
- o e1000 build fix
- o sym_requeue_awaiting_cmds() warning fix
- o ipr.c build fix
- o [un]register_ioctl32_conversion() stubs
- o copy_mount_options size fix
- o sane mlock_limit
- o Fix x86_64 vs select.c namespace clash
- o must_check_copy_to_user()
- o copy_to_user checking in select.c
- o megaraid warning fix
- o truncate_inode_pages latency fix
- o remove ext2_panic() prototype
- o isdn debug build fix
- o NFS: older gcc's don't like unsized arrays
- o x86_64 waitid syscall number fix
- o Fix shmем.c stubs
- o add_to_swap(): suppress oom message
- o ipr.c build fix
- o airo build fix
- o remove ext2_panic()
- o Fix mark_buffer_dirty_inode locking breakage
- o [NET]: Fix pkt_act.h warning with gcc-2.95

Andrew Vasquez:

- o qla2xxx: EH host-reset fixes
- o qla2xxx: Set firmware options fixes
- o qla2xxx: TCQ fixes
- o qla2xxx: Update version
- o Re: 2.6.8-rc3-mm2: Debug: sleeping function called from invalid

Andrey Panin:

- o fix qla1280 build on visws

Andries E. Brouwer:

- o fat: add static
- o adfs: add static
- o isofs: add static
- o add static in affs
- o add static in afs
- o add static in befs
- o add static in autofs4
- o add static in efs
- o add static in udf
- o add static in ufs

Andy Polyakov:

- o cdrom signedness range fixes

Andy Whitcroft:

- o i386 bootmem restrictions
- o use page_to_nid
- o ppc64: topdown support
- o ppc64 topdown support: arch–specific get_unmapped_area()

Anton Blanchard:

- o reduce size of struct buffer_head on 64bit
- o reduce size of struct dentry on 64bit
- o remove cacheline alignment from inode slabs
- o ppc64: remove iseries profiling
- o reduce size of struct inode on 64bit
- o prio–tree: remove function prototype inside function
- o ppc64: enable DEBUG_SPINLOCK_SLEEP
- o ppc64: print backtrace in EEH code
- o ppc64: dynamically allocate emergency stacks
- o ppc64: update pSeries_defconfig
- o ppc64: update iSeries_defconfig
- o ppc64: quieten NUMA boot messages
- o ppc64: allocate NUMA node data node locally
- o ppc64: cleanup asm/processor.h
- o ppc64: Fix POWER5/JS20 SMP init
- o ppc64: allow SD_NODES_PER_DOMAIN to be overridden
- o ppc64: fix hang on oprofile shutdown
- o ppc64: be resilient against sysfs PCI config accesses
- o ppc64: cut down paca footprint
- o ppc64: fix boot memory reporting
- o ppc64: fix compat cpu affinity on big endian 64bit
- o ppc64: compat_get_bitmap/compat_put_bitmap
- o ppc64: fix compat NUMA API on big endian 64bit
- o use for_each_cpu in oprofile code
- o fix oprofile vfree warning on error
- o Speed up oprofile buffer drain code

- o Move `__preempt_*lock` into `kernel_spinlock`, clean up

Antonino Daplas:

- o fbdev: fix kernel panic from `FBIO_CURSOR ioctl`
- o fbdev: fix `copy_to/from_user` in `fbmem.c:fb_read/write`
- o fbdev: Speed up scrolling of `tdxfb`
- o fbdev: PPC crash and other fixes for `riva_fb`
- o fbcon: take over console on driver registration
- o fbdev: Clean up framebuffer initialization
- o fbdev: Add `module_init()` and `fb_get_options()` per driver

Antti P Miettinen:

- o [NETFILTER]: Consistent IP address access in `arp_tables.c`
- o [NETFILTER]: One missed case in `arp_tables.c` unaligned fixes

Arjan van de Ven:

- o flexmmap patchkit: fix for 32 bit emu for 64 bit arches
- o flex mmap for `s390(x)`
- o flexible–mmap for `ppc64`
- o Automatically enable `bigsmpt` on big HP machines
- o fix permissions on the `'tainted' sysctl`
- o Fix `fs/locks.c` init order
- o drm: optimise `i8x0` accesses
- o ide: check the return value of `pci_set_dma_mask()` in `cs5520.c`
- o make `hugetlb` expansion allocation `nowarn`

Armin Schindler:

- o 2.6 ISDN CAPI: low–level drivers `skb` free fix
- o ISDN Eicon driver: `maint/trace` fix and update

Arnaldo Carvalho de Melo:

- o [NET]: Move `SOCK_foo` types into `linux/net.h`

Arnd Bergmann:

- o Using `get_cycles` for `add_timer_randomness`

Arun Sharma:

- o Fix copying of unaligned data across user/kernel boundary

Atul Mukker:

- o Add new Megaraid driver version 2.20.0.1
- o Update to megaraid version 2.20.3.0
- o Update megaraid to version 2.20.3.1

Badari Pulavarty:

- o Fix `mpage_readpage()` for big requests
- o AIO/DIO oops fix

Bart De Schuymer:

- o [BRIDGE]: Add `ipv6` packet filtering
- o [BRIDGE]: Fix length checking in `ipv6` bridge filtering

Bartlomiej Zolnierkiewicz:

- o ide: remove /proc/ide/hd?/settings:ide-scsi & HDIO_SET_IDE_SCSI ioctl
- o ide: small drivers/ide/legacy/Makefile cleanup
- o ide: remove CONFIG_IDE_TASKFILE_IO code from pdc4030.c
- o ide: remove unused IDETAPE_DEBUG_LOG_VERBOSE code from ide-tape.c
- o libata: ata_piix.c PIO fix
- o ide: sgiioc4 driver needs /proc/ide entries
- o ide: fix bogus write cache comment
- o ide: remove kcalloc() from ide_unregister()
- o ide: fix LBA48 support for ALi chipsets (rev < 0xC5)
- o ide: remove unused ide_[dma,pio]_ops_t
- o ide: add ide_hwif_t->data_phase
- o ide: unify taskfile single/multiple PIO code

Baruch Even:

- o [TCP]: Fix some typos

Bastian Blank:

- o s390: export copy_in_user

Ben Dooks:

- o [ARM PATCH] 2042/1: S3C2410 – Clock fixes, added watchdog clock
- o [ARM PATCH] 2043/1: S3C2410 update to registered devices
- o [ARM PATCH] 2044/1: S3C2410 – missing IRQ_TICK from RTC resources
- o [ARM PATCH] 2055/1: S3C2410 – add timer0 deadzone definition
- o [ARM PATCH] 2056/1: S3C2410 – check for IRQ pending in gettimeoffset()
- o [ARM PATCH] 2061/1: S3C2410 – Drive strength control for s3c2440
- o [ARM PATCH] 2062/2: Initial support for s3c2440 cpus
- o [ARM PATCH] 2063/1: BAST – CPLD register updates
- o [ARM PATCH] 2074/1: S3C2410 – fix reboot by watchdog
- o [ARM PATCH] 2028/1: S3C2410 – SDIO/MMC register definitions
- o [ARM PATCH] 2029/1: S3C2410 – nand controller register definitions
- o [ARM PATCH] 2058/2: S3C2410 – Add PWM devices, update ID on existing devices
- o [ARM PATCH] 2076/1: S3C2410 – s3c2440 support and machine updates

Ben Leslie:

- o Use posix headers in sumversion.c

Benjamin Herrenschmidt:

- o ppc32: PowerMac trackpad problems
- o ppc32: properly export some pcibios_* functions
- o ppc32: Improve workaround for 74xx CPUs with broken BTIC
- o ppc[64]: increase max auxv entries
- o ppc/ppc64: fix offb
- o ppc32: Fix boot with ppc970fx CPU
- o ppc: fix sungem NAPI
- o ppc64: Fix missing register in altivec context switch
- o fbdev/radeonfb: Remove bogus radeonfb_read/write

Bjorn Helgaas:

- o idt77252.c: add missing pci_enable_device()
- o ip2main.c: add missing pci_enable_device()
- o tpam_main.c: add missing pci_enable_device()
- o ibmasm: add missing pci_enable_device()
- o hp100.c: add missing pci_enable_device()
- o ioc3-eth.c: add missing pci_enable_device()
- o de4x5.c: add missing pci_enable_device()
- o cpqfc: add missing pci_enable_device()
- o dvb pci_enable_device() fix
- o revert ioc3-eth.c pci_enable_device() changes
- o Fix hp100.c for pci_enable_device() changes
- o Make assign_irq_vector() non-__init
- o announce hpet devices claimed
- o silence sn_console driver on non-SGI boxes

Bo Henriksen:

- o [ARM PATCH] 2065/1: LH7A40X UDC ARCH changes

Brent Casavant:

- o Fix get_nodes() mask miscalculation

Brian Gerst:

- o Fix hardcoded value in vsyscall.lds
- o kbuild: use KERNELRELEASE
- o Remove in-kernel init_module/cleanup_module stubs

Brian J. Johnson:

- o [IA64-SGI] Add full PROM version banner to /proc/sgi_prominfo/nodeXX/version

Brian King:

- o fix scsi_remove_device locking
- o ipr: Use cancel all instead of abort task
- o ipr: Bump driver version
- o ipr: Properly retry aborted reponse
- o ipr: New adapter support
- o ipr: Use kref instead of a kobject
- o ipr: Add maintainers email address to comment block
- o ipr: New PCI IDs
- o ipr: Properly enable/disable TCQ
- o ipr: Dead adapter I/O hang fix
- o ipr: Set allow_restart for disk devices only
- o ipr: Don't log adapter shutdown error response code
- o Allow TCQ depth to be lowered properly

Bálint Márton:

- o urandom initialisation fix

Chris Mason:

- o fix bio_uncopy_user() mem leak

Chris Wedgwood:

- o i386 reduce spurious interrupt noise

Chris Wright:

- o small simplification for two SECURITY dependencies
- o configurable SELinux bootparam value
- o use simple_read_from_buffer in selinuxfs
- o use simple_read_from_buffer in proc_info_read and proc_pid_attr_read

Christian Borntraeger:

- o Add bus dependencies to two scsi drivers

Christoph Hellwig:

- o qla1280: add ISP1040 register definitions
- o qla1280: add IS_ISP* helpers
- o qla1280: cleanup firmware loading, add pio–based loading
- o qla1280: cleanup qla1280_nvram_config
- o qla1280: cleanup qla1280_initialize_adapter
- o qla1280: update changelog and version
- o switch sd numbering to idr
- o kill tmscsim ->proc_info
- o clean up some more tmscsim scan logic
- o reduce pty.c ifdef clutter
- o BUG() on inconsistent dcache tree in may_delete
- o ppc32: remove dead CONFIG_KERNEL_ELF Kconfig entry
- o fix some comments about epoch in arch/alpha/kernel/time.c
- o remove read–only/immutable checks from fat_truncate
- o inode time update funnies in ncpfs
- o fix NC5380 locking and delayed work handling
- o sk98lin procfs fix
- o update scsi_eh_get_sense commentary
- o BKL removal for EH thread startup
- o mesh is ppc32–only
- o [XFS] Fix warnings in xfs_bmap.c
- o [XFS] Export sync_page_range to fix O_SYNC in XFS
- o [XFS] Rework parts of the write path so that when a direct write needs to fallback to buffered in the generic code, we are able to relock the XFS inode correctly.
- o [XFS] Fix O_SYNC flushing in XFS which regressed with concurrent O_SYNC write improvements recently.
- o ftape support for x86_64
- o hfs/hfsplus is missing .sendfile
- o fix devfs name for microcode driver
- o fix compile warning in ppc64 pmac_feature.c
- o fix compile warnings in via-pmu.c for !CONFIG_PMAC_PBOOK
- o stop ->put_inode abuse in vxfs
- o some missing statics in mm/
- o remove ptrinfo
- o fix compile warning in rivafb on ppc
- o [XFS] Remove a readahead page allocation failure warning, this will

happen under normal workloads and does not indicate a problem.

- o [XFS] Fix use of AIO wait_on_sync_kiobc and a deadlock in O_SYNC inode semaphore handling.
- o [IPV4]: Mark inet_family_ops static
- o [NET]: Unexport {alloc,free}_divert_blk()
- o factor out common <asm/hardirq.h> code
- o centralize some nls helpers
- o remove unused sysctls from kernel/personality.c
- o fix address_space.i_mmap comment
- o remove MOD_{INC,DEC}_USE_COUNT users that got back in
- o don't mention MOD_{INC,DEC}_USE_COUNT in Documentation/
- o remove drivers/char/busmouse.[ch]
- o Missing static in buffer.c
- o [IPV6]: Remove secure_ipv6_id, unused

Christoph Lameter:

- o Time interpolator: Scalability enhancements and high resolution time for IA64
- o Fix hpet time interpolator setup for CONFIG_TIME_INTERPOLATION

Con Kolivas:

- o sched: adjust p4 per-cpu gain

Corey Minyard:

- o signal handling race fix

Cornelia Huck:

- o Add pci dependencies to drivers/media/dvb/ttpci/Kconfig

Coywolf Qi Hunt:

- o uml: remove a group of unused bh functions

Daniel McNeil:

- o AIO: retry infrastructure fixes and enhancements

Dave Airlie:

- o remove __NO_VERSION__ relic from the past
- o drm: missing bus_address assignment
- o Add some missing NULL->0 and __user annotations
- o Mark gamma as broken
- o Initial DRM function table removes some if the DRIVER_ macros
- o Remove DRIVER_CTX_[CD]TOR, HAVE_KERNEL_CTX_SWITCH, DRIVER_BUF_PRIV_T, DRIVER_AGP_BUFFERS_MAP
- o remove DRIVER_FOPS and related macros
- o Dump __HAVE_DMA_FREELIST is only used by gamma
- o remove __HAVE_DMA_SCHEDULE was only used by gamma
- o remove HAVE_DMA_WAITLIST as it was only used by gamma
- o remove DRM_IOREMAP* and DRM_FIND_MAP macros replace them with inline fns
- o Remove __HAVE_AGP and __HAVE_MTRR, add driver features bitmask, Cleaned up a lot of #ifdef in functions using suggestions from

Arjan.

- o Drop `__HAVE_CTX_BITMAP`, `__HAVE_SG`, `__HAVE_PCI_DMA`, these are fairly straightforward removals..
- o remove `DRIVER_FILE_FIELDS`, replace with a private driver structure allocated in open helper and freed in `free_filp_priv`.
- o drm: remove `__HAVE_DMA/IRQ` and mapping offset macros
- o drm: Sparc64 ffb compile fixes
- o drm: remove `virt_to_bus`
- o We dereference `dev->priv` a few lines above, meaning we'd
- o drm: correct i915 packet length calculations
- o Missing `ctx_count` decrement when releasing driver
- o drm: update Kconfig for r128/radeon

Dave Boutcher:

- o `ibmvscsi` driver v1.5.1

Dave Hansen:

- o reduce casting in `sysenter.c`
- o cast `PAGE_OFFSET` math to `void*` in early `printk`
- o call `virt_to_page()` with `void*`, not `UL`
- o `vmalloc_fault()` cleanup
- o don't align `virt_to_page()` args
- o include `asm/page.h` for `virt_to_page()`
- o `[AF_PACKET]`: Use `void *` for virtual addresses
- o `ppc64`: add a `pfn_to_kaddr()` function

Dave Jiang:

- o `[ARM PATCH] 2033/1: IOP3xx patch submission (1/6)`
- o `[ARM PATCH] 2034/1: 2033/2 – IOP3xx patch submission (2/6)`
- o `[ARM PATCH] 2035/1: 2033/3 – IOP3xx patch submission (3/6)`
- o `[ARM PATCH] 2048/1: Patch 2036/1 (2033/4) resubmission`
- o `[ARM PATCH] 2049/1: 2037/1 (2033/5) resubmission`
- o `[ARM PATCH] 2039/1: 2033/6 resubmission`

Dave Jones:

- o `[CPUFREQ]` Introduce some defines for the longhaul version, and use them
- o `[CPUFREQ]` Powersaver also has voltage scaling abilities
- o `[CPUFREQ]` Remove extraneous comment
- o `[CPUFREQ]` Prettyprint longhaul speeds
- o `[CPUFREQ]` Further cleanups to longhaul driver using defines
- o `[CPUFREQ]` fix up random CodingStyle /whitespace regressions
- o `[CPUFREQ]` Samuel2 can use `eblcr` to determine FSB
- o `[CPUFREQ]` Fix `reset-to-max-speed` on unloading of longhaul driver
- o `[CPUFREQ]` Work around some broken userspace daemons
- o `[CPUFREQ]` Fix silly typo that broke the compile
- o fix inlining failures
- o x86: quieten the "ESR value" `printks`
- o describe Intel cache descriptors
- o `[CPUFREQ]` Remove `fsb` argument from longhails `calc_speed()` It's being passed a global everywhere, so it may as well directly

reference it.

- o Fix up Centaur CPU feature enabling
- o [CPUFREQ] Fix up ARM drivers 'out of sync' problem
- o Eicon ISDN: fix leak in eicon debug code
- o Fix NULL dereference in OSS MAUI driver
- o Fix leak in PNP interface code
- o Remove pointless code from ALSA emu10k1 midi driver
- o Clean up failure path in DAC960
- o Remove pointless check in zlib
- o Fix NULL dereference in OSS v_midi driver
- o Fix another PNP leak
- o Fix leaks in ISOFS
- o Fix potential leaks in pc300_tty driver
- o Fix leak in atmel wireless driver
- o Fix leak in ISAPNP core
- o More PNP leaks
- o Check find_vma return code in make_pages_present()
- o Fix warning in pc300_tty driver
- o 3c527 possible oops
- o wavelan uninitialised var
- o [AX25]: Fix digipeat leak
- o [PACKET]: Fix deref before NULL check in packet_release()
- o ext3 dreference of sb preceeds check
- o Remove bogus memset from cpqfc driver
- o hpt366 ptr use before NULL check

Dave Kleikamp:

- o JFS: disk quota support
- o JFS: Trivial: remove dead code
- o JFS: fix memory leak in __invalidate_metapages

David Brownell:

- o USB: gadget drivers learn about LH7A40x
- o USB OTG: add usb_bus_start_enum() (1/5)
- o USB OTG: ohci reset updates (2/5)
- o USB OTG: usbcore enumeration (3/5)
- o USB OTG: gadget zero (4/5)
- o USB OTG: doc updates (5/5)
- o USB: ohci_omap updates
- o USB: isp1301_omap driver (OTG core)
- o USB: add lh7a40x_udc driver
- o USB: add omap_udc driver
- o USB: ethernet gadget, minor fixes
- o USB: gadgetfs minor updates
- o [ARM PATCH] 2060/1: make /proc/cpuinfo report missing EDSP and Java support

David Gibson:

- o ppc64: clean up unused macro
- o ppc64: pin the kernel stack's SLB entry
- o ppc64: fix declaration order in asm-ppc64/tlb.h

- o ppc64: handle SLB misses in realmode

David Howells:

- o Fix a NULL pointer bug in do_generic_file_read()

David Mosberger:

- o signal-race-fix: ia64
- o [IA64] irq.c: Kill warning about variables which are unused in UP kernels

David S. Miller:

- o [TIGON3]: Mention that firmware is copyrighted by Broadcom
- o [TG3]: Revamp fibre PHY handling
- o [TG3]: Remove autoneg handling from fibre_autoneg() unneeded
- o [TG3]: Always set MAC_EVENT_LNKSTATE_CHANGED even when serdes polling
- o Cset exclude:
 - davem@nuts.davemloft.net|ChangeSet|20040817010613|52352
- o [TG3]: Do tg3_netif_start() under lock
- o [TG3]: Disable CIOBE split, as per Broadcom's driver
- o [SPARC64]: Save/restore %asi properly in signal handling
- o signal handling race fixes: sparc and sparc64
- o [SPARC64]: Update defconfig
- o [SPARC64]: Use force_{sig,sigsegv}() in sparc signal handling
- o [SPARC64]: Hack fix, force DTR/RTS on in sunsab console
- o [SPARC64]: Fix direct f_pos fiddling in openpromfs
- o [SPARC64]: Add .type and .size directives to some asm files
- o [SPARC64]: Fix some tabbing in xor.S
- o [SUNSAB]: Remove CRTSCTS handling in set_termios
- o [SPARC64]: Sign extend correct args of sys_syslog()
- o [SPARC64]: Fix copyarea bug and set default flags in ffb driver
- o [SPARC64]: Speed up ffb font rendering
- o [UACCESS]: Fix typo in generic __get_user_unaligned()
- o [SPARC64]: Fix delay with HZ==1000
- o [MAINTAINERS]: Update my email contact info
- o [AMD7930]: Fix kcalloc() args
- o [SPARC64]: Update defconfig
- o [CREDITS]: Update my entry
- o [TG3]: Add 5750 A3 workaround
- o [TG3]: Add capacitive coupling support
- o [TG3]: Fix clock control programming on 5705/5750
- o [TG3]: Update driver version and reldate
- o [IPV4]: Push ip_append_data() frag bug fix into ip_append_page()
- o [SPARC64]: SA_SAMPLE_RANDOMNESS fix
- o [SPARC]: Add sys_waitid support
- o [SPARC64]: Fix set_utsname returning with uts semaphore held
- o [SPARC64]: Zap pci_controller_lock
- o [SPARC64]: Kill unused 'flags' in pci_sabre.c
- o [SPARC64]: Add sparc64die_chain as on x86{,_64}
- o [KPROBES]: Pass integer addresses, not pointers, to flush_icache_range()

- o [SPARC64]: Initial KPROBES implementation
- o [SPARC64]: Update defconfig
- o [NET]: Free neigh_parms using RCU to fix neigh_create/inetdev_destroy race
- o [PKT_SCHED]: Kill bogus spaces in Kconfig strings
- o [SPARC64]: Update defconfig
- o [PKT_SCHED]: Fixed missed return in tcf_hash_init()
- o [SPARC64]: Fix spinlock macros
- o [TCP]: Make TSO play nice with congestion window
- o [TCP]: Calculate SKB tso factor more accurately
- o [TCP]: Make sure SKB tso factor is setup early enough
- o [NET]: Kill SCM_CONNECT, never used and unreferenced
- o [VLAN]: Fix thinko in RCU locking
- o [TCP]: Do not export tcp_transmit_skb()
- o [TCP]: Fix tcp_set_skb_tso_factor() calcs
- o [NET]: Calculate RTATTR_MAX at run time
- o [SUNGEM]: Use dev_kfree_skb_irq() for TX
- o [TCP]: Fix packet counting in tcp_fragment()
- o [TCP]: Fix packet counting when fragmenting already sent packets
- o [TCP]: Fix packet counting during retransmission
- o [SPARC64]: Use time interpolators
- o [SPARC64]: Kill insn scheduling comments from etrap.S
- o [TCP]: Fix {lost,left}_out accounting in tcp_fragment()
- o [NET]: Kill netdev->last_stats
- o [TG3]: Need tx_lock in tg3_set_rx_mode()
- o Merge conflicts with Linus's sparse ioremap() work
- o [SK98LIN]: Kill dangling netdev->last_stats reference
- o [TCP]: Fix fack_count handling in tcp_sacktag_write_queue()

David Woodhouse:

- o [NET]: Fix compat layer setsockopt overzealous conversions

Dean Nelson:

- o [IA64] allow OEM written modules to make calls to ia64 OEM SAL functions

Dean Roe:

- o [IA64–SGI] report coherence id in /proc/sgi_sn/coherence_id

Dean Roehrich:

- o [XFS] Change DMAPAPI dm_punch_hole to punch holes, rather than just truncate files.

Deepak Saxena:

- o [ADD] Add pci=firmware command line option
- o [ARM] Switch CPU to BE mode before uncompressing when running BE
- o [ARM] Add IXP2000 support to arch/arm/Makefile & Kconfig
- o [ARM] Add IXP2000 support to arch/arm/kernel
- o [ARM] Add IXP2000 CPU support to arch/arm/mm
- o [ARM] Add IXP2000 support to arch/arm/boot
- o [ARM] Add IXP2000 platform implementation (arch/arm/mach–ixp2000)

- o [ARM] Add IXP2000 header files (include/asm–arm/arch–ixp2000)
- o [ARM] Add IXP2000 documentation
- o [ARM] IXP2000 cleanups to get code upstream
- o [ARM] Remove support for XScale BDI2000
- o Add IXDP2x01 board support to CS89x0 driver
- o [ARM] Some minor ixdp2x01 fixes
- o [ARM] More minor IXP2000 cleanups

Diego Calleja García:

- o ext3 documentation

Dimitri Sivanich:

- o sched: isolated sched domains

Dmitry Torokhov:

- o kobject: fix kobject_set_name comment

Dominik Brodowski:

- o [CPUFREQ] Remove duplicate information brought in with the new governor

Douglas Gilbert:

- o scsi_level constants in scsi.h
- o scsi_mid_low_api.txt update

Eric Dean Moore:

- o MPT Fusion driver 3.01.10 update
- o fix dma mapping leak in fusion

Eric Lemoine:

- o [NET]: Allow get/set of dev->weight via netlink
- o [SUNGEM]: Add NAPI support

Eric W. Biederman:

- o fix 4K ext2fs support in 2.6 initrd's

Felipe Alfaro Solana:

- o [NETFILTER]: Missing netfilter_ipv4.c include in conntrack proto code

Frank Pavlic:

- o s390: lcs network driver

François Romieu:

- o ipr: minor fixes and assorted nit
- o via–velocity: more inetaddr_notifier fix
- o via–velocity: wrong module name in Kconfig documentation
- o 8139too: Rx fifo/overflow recovery
- o 8139too: be sure to progress during rtl8139_rx()
- o pci–driver: function documentation fix

Geert Uytterhoeven:

- o Convert in–kernel users of EXPORT_SYMBOL_NOVERS() to EXPORT_SYMBOL()

Gerd Knorr:

- o v4l/bttv: add sanity check (bug #3309)
- o v4l: i2c cleanups
- o v4l: i2c tuner modules update
- o v4l: bttv driver update
- o v4l: saa7134 driver update

Greg Edwards:

- o [IA64] ia32_support.c: Check whether page_alloc failed

Greg Kroah–Hartman:

- o KREF: shrink the size of struct kref down to just a single atomic_t
- o KREF: fix up the current kref users for the changed api
- o KREF: make kref_get() return void as it makes sense to do so
- o USB: fix bad value in kaweth.c driver
- o USB: Remove struct urb–>timeout as it does not work
- o USB: rip the pwc decompressor hooks out of the kernel, as they are a GPL violation
- o kobject: convert struct kobject use kref
- o USB: rip out the whole pwc driver as the author wishes to have done

Guennadi Liakhovetski:

- o tmcsim: kernel bugzilla bug #2139
- o tmcsim: MAINTAINERS
- o SCSI tmcsim.c: fix inline compile errors
- o tmcsim: (CH) Fix error handling
- o tmcsim: remove unused / redundant bios_param

Guillaume Thouvenin:

- o watchdog: fix warning "defined but not used"

H. Peter Anvin:

- o Make i386 signal delivery work with –mregparm

Harald Welte:

- o [NETFILTER]: Fix ip_nat_find_helper() locking
- o [NETFILTER]: Add some missing help entries
- o [NETFILTER]: Sort Kconfig entries into reasonable order
- o [IPV4]: Use nf_reset() in parp_redo()
- o [CREDITS]: Update netfilter entries

Haren Myneni:

- o ppc64: implement page_is_ram

Heiko Carstens:

- o s390: zfcg host adapter

Herbert Xu:

- o [IPSEC]: Set TTL from route
- o [NET]: Use `skb_expand_head()` instead of `skb_copy()` in `skb_checksum_help()`
- o [IPV4/IPV6]: Fixup checksums properly when fragmenting
- o [IPV4/IPV6]: Use `csum_sub()` instead of `csum_block_sub()` w/zero 3rd arg
- o [NET]: Add reference counting to `neigh_parms`
- o [NET]: Fully plug `neigh_create/inetdev_destroy` race
- o [IPV4/IPV6]: Update ECN handling
- o [IPV4]: Simplify `IP_ECN_set_ce`
- o [IPSEC]: Fix ECN encapsulation on `ipv6`
- o [IPV6]: Handle ECN correctly in `ip6ip6` tunnels
- o [IPSEC]: Find larval SAs by sequence number
- o [IPCOMP]: Use per–cpu buffers for compression/decompression

Hideaki Yoshifuji:

- o [IPV6]: Fix device handling in `ip6_route_add()`
- o [IPSEC]: Add SCTP to `xfrm_flowi_{sport,dport}()`
- o [NETFILTER]: Remove unused file
- o [IPV4/IPV6]: Fix fragment creation
- o [IPV4/IPV6]: More fragment handling improvements
- o [NETFILTER]: Fix build with `SYSCTL=n`
- o [IPV6]: Fix oops in `rt6_device_match()`

Hidetoshi Seto:

- o [IA64] floating point regs are not 16–byte aligned inside SAL error record

Hirofumi Ogawa:

- o FAT: document fix/update
- o NLS: `nls_cp932` fix

Hugh Dickins:

- o i386 virtual memory layout rework
- o `rmaplock`: PageAnon in mapping
- o `rmaplock`: kill `page_map_lock`
- o `rmaplock`: `SLAB_DESTROY_BY_RCU`
- o `rmaplock`: mm lock ordering
- o `rmaplock`: `swapoff` use `anon_vma`
- o clarify `get_task_mm` (`mmgrab`)
- o simple fs stop –ve dentries
- o `tmpfs` atomicity fix

Ian Campbell:

- o MTD: Additional JEDEC device types
- o [ARM PATCH] 2088/2: `set_irq_type` takes the IRQ number not the GPIO

Ian Wienand:

- o [IA64] Remove extraneous `MMU_TRACE` debugging macros
- o [IA64] `VIRTUAL_MEM_MAP` can be set when `DISCONTIGMEM` isn't; handle

it

- o kbuild: Support LOCALVERSION

Ingo Molnar:

- o sched: fix timeslice calculations for HZ=1000
- o sched: cleanup, improve sched <=> fork APIs
- o sched: misc cleanups #2
- o sched: make rt_task unlikely
- o sched: sched misc changes
- o sched: fork hotplug handling cleanup
- o scheduler statistics
- o sched: whitespace cleanups
- o sched: nonlinear timeslices
- o sched: new task fix
- o permit sleeping in release_task()
- o sched: self-reaping atomicity fix
- o sched: smt fixes
- o Add a few might_sleep() checks
- o ia32: tsc synchronisation cleanup

Ivan Kokshaysky:

- o Alpha: generic dma mapping

J. A. Magallon:

- o fix aic driver build for db4

Jacek Poplawski:

- o stv0299 device naming fix

Jack Steiner:

- o [IA64–SGI] The SN2 fakeprom directories/files should be deleted

Jamal Hadi Salim:

- o [PPP]: Fix assertion trigger with NET_CLS_ACT
- o [ETH]: Zap NET_CLS_ACT ifdef
- o [PKT_SCHED]: Add gact generic actions
- o [PKT_SCHED]: Fix gact compile warnings
- o [NET]: Use NETDEV_TX_* macros instead of magic numbers

James Bottomley:

- o Add dma_declare_coherent_memory() API
- o Add memory region bitmap implementations
- o Add vmalloc alignment constraints
- o Add x86 implementation of dma_declare_coherent_memory
- o Convert NCR_Q720 to use dma_declare_coherent_memory
- o Fix incorrect prototype in the dma_declare_coherent_memory API
- o Fix bug in __get_vm_area() alignment code
- o Fix region sizing problem in dma_mark_declared_memory_occupied()
- o dma_alloc_coherent() still needs to support a NULL device
- o lib/bitmap.c: fix incorrect use of BITS_TO_LONGS()
- o MPT Fusion driver 3.01.15 update

- o Fix the new megaraid compat code to work on all 64 bit systems
- o get the kernel to warn about deprecated SCSI ioctls
- o fix for Domain Validation hang on some devices with sym_2
- o Add accessor functions for scsi_device 56 byte inquiry data
- o fix sym2 negotiation
- o Add internal API to remove reliance on deprecated SCSI_IOCTL_TEST_UNIT_READY

James Courtier–Dutton:

- o emul0k1 maintainer update

James Morris:

- o libfs: move transaction file ops into libfs
- o Reduce SELinux kernel memory use on 64–bit systems

Jan Glauber:

- o s390: core changes

Jan Harkes:

- o coda: fix ifdefs for CONFIG_CODA_FS_OLD_API
- o coda: add sendfile wrapper
- o Coda – fix sparse warnings

Jaroslav Kysela:

- o ALSA CVS update – Clemens Ladisch <clemens@ladisch.de> ALSA sequencer,ALSA<–OSS sequencer export snd_seq_set_queue_tempo() for OSS to prevent calling snd_seq_kernel_client_ctl() (using copy_from_user()) in interrupt context
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> ATIIXP driver
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> Documentation,ICE1712 driver,ICE1724 driver
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> Memalloc module
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> AC97 Codec Core
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> Digigram VX core fixed sleep while atomic in the trigger callback.
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> PARISC Harmony driver
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> Digigram VX core fixed the compile warnings due to the last change.
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> Digigram VX core added 'Clock Mode' control to choose the clock source.
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> ICE1724 driver avoid to change the AC97 rate registers. this seems conflicting with the rate conversion on VT172x.
- o ALSA CVS update – Clemens Ladisch <clemens@ladisch.de> Wavefront drivers fix possible buffer overflow in wavefront_download_firmware()
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> VIA82xx driver added the DXS entry for Mitac/Vobis/Yakumo laptop.
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> AC97 Codec Core added ac97_can_spdif() for checking the SPDIF support.

Linux–Kernel: Linux 2.6.9–rc2

- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> VIA82xx driver
- o ALSA CVS update – Jaroslav Kysela <perex@suse.cz> AC97 Codec Core For Gateway M675 notebook – this will direct mixer
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> PARISC Harmony driver fixed typos.
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> AC97 Codec Core Avoid warning message during codec probing in case SKIP_AUDIO flag is not set.
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> AC97 Codec Core
- o ALSA CVS update – Jaroslav Kysela <perex@suse.cz> ALSA Core Fixed warnings for pci PM callbacks when not CONFIG_PCI
- o ALSA 1.0.5
- o ALSA CVS update – Takashi Iwai <tiwai@suse.de> AC97 Codec Core Fixed mutex deadlocks.
- o ALSA CVS update Documentation Added snd–fm801 tuner parameter description
- o ALSA CVS update ICE1724 driver SPDIF output fixes
- o ALSA CVS update ATIIXP driver,VIA82xx driver Added the missing RESUME info bits to pcm.
- o ALSA CVS update Intel8x0 driver Added the PCI ID for nVidia CK8.
- o ALSA CVS update PCM Midlevel,ALSA<–OSS emulation Clean up and optimization of PCM format–specific functions.
- o ALSA CVS update USB generic driver Quattro USB: handle the different endianness of playback and recording sample data
- o ALSA CVS update Opti9xx drivers Fixed spin deadlocks.
- o ALSA CVS update OPL4 add newline at end of file
- o ALSA CVS update OSS sequencer emulation
- o ALSA CVS update CS46xx driver,MIXART driver reduce stack usage
- o ALSA CVS update PCM Midlevel Removed the obsolete init for boot parameters.
- o ALSA CVS update ES1968 driver Fix the crash at unloading the module due to the shared interrupt with other devices.
- o ALSA CVS update Generic drivers Do the buffer allocation in hw_params callback instead of open callback.
- o ALSA CVS update PCM Midlevel,ES1968 driver,EMU10K1/EMU10K2 driver,KORG1212 driver Trident driver Clean up the buffer management in the PCM runtime record.
- o ALSA CVS update Intel8x0 driver Fixed the calculation of the current DMA position on some sloppy devices.
- o ALSA CVS update VIA82xx driver Fixed the calculation of the current DMA position at the period boundary.
- o ALSA CVS update USB generic driver handle devices that allow setting but not reading sample rate
- o ALSA CVS update PCM Midlevel,ALSA Core,RME32 driver,RME96 driver,NM256 driver
- o ALSA CVS update EMU10K1/EMU10K2 driver Merge EFX playback and capture streams to the single device (hw:0,2).
- o ALSA CVS update au88x0 driver
- o ALSA CVS update PCM Midlevel,ALSA<–OSS emulation,CMIPCI driver reduce stack usage
- o ALSA CVS update CMIPCI driver don't sleep in prepare callback

Linux-Kernel: Linux 2.6.9-rc2

- o ALSA CVS update PCM Midlevel Each of `snd_pcm_hw_refine_old_user()` and `snd_pcm_hw_params_old_user()` consume 856 bytes of stack and can invoke deep calls via the page allocator.
- o ALSA CVS update USB generic driver new functions `snd_usbmidi_input_stop()` and `snd_usbmidi_input_start()` needed by `snd-usb-usx2y` to be able to use `usb_set_interface()`
- o ALSA CVS update ALSA sequencer,Instrument layer,ISA,GUS drivers Clean up Makefiles for the sequencer stuff using reverse selections.
- o This patch introduces a `kcalloc()` in the kernel that is used to replace the ALSA subsystem-specific `snd_kcalloc()` and `snd_magic_kcalloc()`.
- o ALSA CVS update AC97 Codec Core Fixed the detection of STAC9708/11 surround control.
- o ALSA CVS update EMU10K1/EMU10K2 driver Fix Audigy + FX8010 capture (`hw:x,2`)
- o ALSA CVS update EMU10K1/EMU10K2 driver Audigy 2 ZS – side support
- o ALSA CVS update ICE1712 driver,ICE1724 driver Fixes for VT1720/VT1724
- o ALSA CVS update Control Midlevel,ALSA Core,PCM Midlevel,RawMidi Midlevel,Timer Midlevel IOCTL32 emulation,ALSA<-OSS emulation,ALSA sequencer,Instrument layer ALSA<-OSS sequencer,OPL3,EMU8000 driver,AC97 Codec Core,au88x0 driver EMU10K1/EMU10K2 driver,ICE1712 driver,ICE1724 driver,Trident driver Synth,Common EMU synth Removal of `snd_kcalloc()`
- o ALSA CVS update Control Midlevel,ALSA Core,HWDEP Midlevel,PCM Midlevel,RawMidi Midlevel Timer Midlevel,IOCTL32 emulation,ALSA<-OSS emulation,ALSA sequencer Removal and replacement of magic memory allocators and casts (core part)
- o ALSA CVS update ALS4000 driver,ATIIXP driver,AZT3328 driver,BT87x driver,CMIPCI driver CS4281 driver,ENS1370/1+ driver,ES1938 driver,ES1968 driver FM801 driver,Intel8x0 driver,Intel8x0-modem driver,Maestro3 driver RME32 driver,RME96 driver,SonicVibes driver,VIA82xx driver AC97 Codec Core,AK4531 codec,ALI5451 driver,au88x0 driver,CS46xx driver EMU10K1/EMU10K2 driver,ICE1712 driver,ICE1724 driver,KORG1212 driver MIXART driver,NM256 driver,RME HDSP driver,RME9652 driver Trident driver,Digigram VX222 driver,YMFPCI driver Removal and replacement of magic memory allocators and casts (pci part)
- o ALSA CVS update ES1688 driver,ALS100 driver,AZT2320 driver,CMI8330 driver,DT019x driver ES18xx driver,OPL3SA2 driver,Sound Scape driver,AD1816A driver AD1848 driver,CS4231 driver,CS4236+ driver,GUS Library,Opti9xx drivers EMU8000 driver,ES968 driver,SB16/AWE driver,SB8 driver,SB drivers Wavefront drivers Removal and replacement of magic memory allocators and casts (isa part)
- o ALSA CVS update Documentation,SA11xx UDA1341 driver,Generic drivers,MPU401 UART,OPL3 OPL4,Digigram VX core,I2C cs8427,I2C lib core,I2C tea6330t,L3 drivers AK4117 receiver,Serial BUS drivers,PARISC Harmony driver Sound Core PDAudioCF driver,Digigram VX Pocket driver,PPC AWACS driver PPC Burgundy driver,PPC DACA

- driver,PPC PMAC driver,PPC Tumbler driver SPARC AMD7930 driver,SPARC cs4231 driver,Common EMU synth USB generic driver
- Removal and replacement of magic memory allocators and casts (other parts)
- o ALSA CVS update AC97 Codec Core Fixed STAC9758 output jack selection control
- o ALSA CVS update CMIPCI driver Fix the i/o port range of gameport on cmipci
- o ALSA CVS update Documentation,PCM Midlevel,RawMidi Midlevel,ALSA Core,Timer Midlevel ALSA<–OSS emulation,ALSA sequencer,Instrument layer,ALSA<–OSS sequencer Clean up of obsolete MODULE_* stuff (core part)
- o ALSA CVS update ALS100 driver,AZT2320 driver,CMI8330 driver,DT019x driver,ES18xx driver OPL3SA2 driver,Sound Galaxy driver,Sound Scape driver,AD1816A driver AD1848 driver,CS4231 driver,CS4236+ driver,ES1688 driver GUS Classic driver,GUS Extreme driver,GUS MAX driver AMD InterWave driver,Opti9xx drivers,EMU8000 driver,ES968 driver SB16/AWE driver,SB8 driver,SB drivers,Wavefront drivers Clean up of obsolete MODULE_* stuff (isa part)
- o ALSA CVS update ALS4000 driver,ATIIXP driver,AZT3328 driver,BT87x driver,CMIPCI driver CS4281 driver,ENS1370/1+ driver,ES1938 driver,ES1968 driver FM801 driver,Intel8x0 driver,Intel8x0–modem driver,Maestro3 driver RME32 driver,RME96 driver,SonicVibes driver,VIA82xx driver AC97 Codec Core,ALI5451 driver,au88x0 driver,CS46xx driver EMU10K1/EMU10K2 driver,ICE1712 driver,ICE1724 driver,KORG1212 driver MIXART driver,NM256 driver,RME HDSP driver,RME9652 driver Trident driver,Digigram VX222 driver,YMFPCI driver Clean up of obsolete MODULE_* stuff (pci part)
- o ALSA CVS update SA11xx UDA1341 driver,Generic drivers,MPU401 UART,OPL3,OPL4,L3 drivers PARISC Harmony driver,Sound Core PDAudioCF driver Digigram VX Pocket driver,PPC PowerMac driver,SPARC AMD7930 driver SPARC cs4231 driver,USB generic driver Clean up of obsolete MODULE_* stuff (other part)
- o ALSA CVS update NM256 driver Added AC97 CD register to the list of allowed registers.
- o ALSA CVS update ALSA<–OSS sequencer Suppress the error message when no device is found.
- o ALSA CVS update AC97 Codec Core Check the validity of registers before creating controls.
- o ALSA CVS update CS46xx driver,EMU10K1/EMU10K2 driver,PCM Midlevel Clean up of indirect PCM data transfer with helper functions.
- o ALSA CVS update RME32 driver Added the experimental fullduplex support.
- o ALSA CVS update PCM Midlevel
- o ALSA CVS update Instrument layer LD .tmp_vmlinux1 sound/built–in.o(.text+0xfb4ae): In function 'nd_gus_synth_new_device':
- o ALSA CVS update EMU10K1/EMU10K2 driver Clean up the invalid (commented out) lines for emu10k1x.
- o ALSA CVS update PCM Midlevel,RME32 driver
- o ALSA CVS update ES1938 driver

- o ALSA CVS update au88x0 driver
- o ALSA CVS update Intel8x0 driver set msbits for 20–bit sample format
- o ALSA CVS update OPL4 reorganize locking;
- o ALSA CVS update Generic drivers,AK4531 codec One space at the end of a line is evil.
- o ALSA CVS update USB generic driver remove whitespace at end of lines
- o ALSA CVS update PCM Midlevel fix memory leak
- o ALSA CVS update GUS Library,Wavefront drivers reduce stack usage; fix buffer overflow
- o ALSA CVS update AMD InterWave driver reduce stack usage; fix ROM checksum check
- o ALSA CVS update AC97 Codec Core fix odd comment :)
- o ALSA CVS update USB generic driver allow USB MIDI devices without audio control interface
- o ALSA CVS update Documentation,AC97 Codec Core,ATIIXP driver,CS4281 driver ENS1370/1+ driver,ES1968 driver,FM801 driver,Intel8x0 driver Intel8x0–modem driver,Maestro3 driver,VIA82xx driver,ALI5451 driver au88x0 driver,CS46xx driver,EMU10K1/EMU10K2 driver,ICE1712 driver ICE1724 driver,NM256 driver,Trident driver,YMFPCI driver move AC'97 bus callbacks into seperate ops record; remove ac97_bus_t template requirement from snd_ac97_bus()
- o ALSA CVS update Documentation Removed obsolete sndmagic.h.
- o ALSA CVS update ALSA Core Fixed compile warnings withoug CONFIG_PM.
- o ALSA CVS update Documentation Fixed missing </section>.
- o ALSA CVS update Memalloc module
- o ALSA CVS update CS46xx driver change codec index computation in snd_cs46xx_read/write; replace ac97_t template with ac97_template_t
- o ALSA CVS update Documentation,AC97 Codec Core,ATIIXP driver,CS4281 driver ENS1370/1+ driver,ES1968 driver,FM801 driver,Intel8x0 driver Intel8x0–modem driver,Maestro3 driver,VIA82xx driver,ALI5451 driver au88x0 driver,EMU10K1/EMU10K2 driver,ICE1712 driver,ICE1724 driver NM256 driver,Trident driver,YMFPCI driver replace ac97_t template with ac97_template_t
- o ALSA CVS update ALSA<–OSS emulation fix missing semaphore release in snd_mixer_oss_build_input()
- o ALSA CVS update Documentation fix typo
- o ALSA CVS update RME HDSP driver ALSA rme9652/hdsp: remove inlines
- o ALSA CVS update ATIIXP driver Fixed a typo in the check of buffer/period size configuration.
- o ALSA CVS update Documentation,PCI drivers,ATIIXP–modem driver Added snd–atiixp driver for ATI IXP AC97 modem controllers.
- o ALSA CVS update Memalloc module Mark the allocated DMA pages as reserved for certain architectures.
- o ALSA CVS update Control Midlevel Fixed the unbalanced spinlock in the error path.
- o ALSA CVS update Intel8x0–modem driver Added –MODEM suffix to the driver name string to distinguish from the intel8x0 audio driver.
- o ALSA CVS update CS46xx driver Fixed a compile warning in the debug code.
- o ALSA CVS update Documentation,PCM Midlevel Changed the atomicity of

- PCM prepare callback.
- o ALSA CVS update ALS4000 driver,ATIIXP driver,ATIIXP-modem driver,AZT3328 driver BT87x driver,CMIPCI driver,CS4281 driver,ENS1370/1+ 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,NM256 driver,RME HDSP driver RME9652 driver,Trident driver,YMFPCI driver,PPC PMAC driver USB generic driver Clean up spinlocks.
- o ALSA CVS update AC97 Codec Core,Intel8x0 driver,Intel8x0-modem driver Fixed the detection of sample rates with no VRA support.
- o ALSA CVS update EMU10K1/EMU10K2 driver Enable low latency EFX capture on emu10k1
- o ALSA CVS update VIA82xx driver Added the ac97_quirk entry for ECS K7VTA3 v8.0 mobo.
- o ALSA CVS update ALSA sequencer Fixed the bad check on copy_from_user() return value
- o ALSA CVS update EMU10K1/EMU10K2 driver Fixed the detection of Audigy 2 ZS.
- o ALSA CVS update ALI5451 driver Fixed the suspend/resume.
- o ALSA CVS update EMU10K1/EMU10K2 driver,Trident driver,ALS4000 driver,ATIIXP driver ATIIXP-modem driver,AZT3328 driver,BT87x driver,CMIPCI driver CS4281 driver,ENS1370/1+ driver,ES1938 driver,ES1968 driver FM801 driver,Intel8x0 driver,Intel8x0-modem driver,Maestro3 driver RME32 driver,RME96 driver,SonicVibes driver,VIA82xx driver ALI5451 driver,ICE1712 driver,ICE1724 driver,KORG1212 driver MIXART driver,RME HDSP driver,RME9652 driver,Digigram VX222 driver Clean up the PCI resource allocation.
- o ALSA CVS update Documentation Changed the description of PCI resource allocation to use pci_request_regions().
- o ALSA CVS update ALSA Core,ATIIXP driver,ATIIXP-modem driver,Intel8x0 driver VIA82xx driver Clean up the suspend/resume: save/restore of pci state
- o ALSA CVS update ALI5451 driver Added the missing snd_power_change_state() in the resume callback.
- o ALSA CVS update Documentation,SA11xx UDA1341 driver,PCM Midlevel,IOCTL32 emulation ALSA<-OSS emulation,Generic drivers,I2C cs8427,I2C tea6330t,L3 drivers OPL3SA2 driver,AD1816A driver,CS4231 driver,CS4236+ driver ES1688 driver,GUS Library,AMD InterWave driver,Opti9xx drivers EMU8000 driver,PARISC Harmony driver,AZT3328 driver,CMIPCI driver CS4281 driver,FM801 driver,Intel8x0 driver,Maestro3 driver,RME32 driver RME96 driver,SonicVibes driver,AK4531 codec,CS46xx driver ICE1712 driver,KORG1212 driver,NM256 driver,RME HDSP driver RME9652 driver,YMFPCI