Subject: [PATCH COMMIT] diff-merge-2.6.15.5-20060413
Posted by xemul on Thu, 13 Apr 2006 11:42:38 GMT
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Added to 026test008

Patch from OpenVZ team <devel@openvz.org>
Merge /linux/kernel/git/stable/linux-2.6.16.y

```
diff --git a/arch/i386/kernel/cpu/cpufreq/Kconfig b/arch/i386/kernel/cpu/cpufreq/Kconfig
index 26892d2..16f2e35 100644
--- a/arch/i386/kernel/cpu/cpufreq/Kconfig
+++ b/arch/i386/kernel/cpu/cpufreq/Kconfig
@@ -203,6 +203,7 @@ config X86_LONGRUN
 config X86_LONGHAUL
  tristate "VIA Cyrix III Longhaul"
  select CPU_FREQ_TABLE
+ depends on BROKEN
  help
    This adds the CPUFreq driver for VIA Samuel/CyrixIII,
    VIA Cyrix Samuel/C3, VIA Cyrix Ezra and VIA Cyrix Ezra-T
diff --git a/arch/i386/kernel/cpu/cpufreq/p4-clockmod.c
b/arch/i386/kernel/cpu/cpufreq/p4-clockmod.c
index cc73a7a..ebe1848 100644
--- a/arch/i386/kernel/cpu/cpufreq/p4-clockmod.c
+++ b/arch/i386/kernel/cpu/cpufreq/p4-clockmod.c
@@ -244,7 +244,7 @@ static int cpufreq_p4_cpu_init(struct cp
  for (i=1; (p4clockmod_table[i].frequency != CPUFREQ_TABLE_END); i++) {
   if ((i<2) && (has_N44_O17_errata[policy->cpu]))
    p4clockmod_table[i].frequency = CPUFREQ_ENTRY_INVALID;
-  else if (has_N60_errata[policy->cpu] && p4clockmod_table[i].frequency < 2000000)
+  else if (has_N60_errata[policy->cpu] && ((stock_freq * i)/8) < 2000000)
    p4clockmod_table[i].frequency = CPUFREQ_ENTRY_INVALID;
   else
    p4clockmod_table[i].frequency = (stock_freq * i)/8;
diff --git a/arch/i386/kernel/cpu/cpufreq/speedstep-smi.c
b/arch/i386/kernel/cpu/cpufreq/speedstep-smi.c
index 28cc5d5..cfc4276 100644
--- a/arch/i386/kernel/cpu/cpufreq/speedstep-smi.c
+++ b/arch/i386/kernel/cpu/cpufreq/speedstep-smi.c
@@ -75,7 +75,9 @@ static int speedstep_smi_ownership (void
  __asm__ __volatile__(
   "out %%al, (%%dx)\n"
   : "=D" (result)
-  : "a" (command), "b" (function), "c" (0), "d" (smi_port), "D" (0), "S" (magic)
+  : "a" (command), "b" (function), "c" (0), "d" (smi_port),
+   "D" (0), "S" (magic)
```

```
+  : "memory"
  );

  dprintk("result is %x\n", result);
diff --git a/arch/i386/kernel/dmi_scan.c b/arch/i386/kernel/dmi_scan.c
index 6a93d75..ca2a0cb 100644
--- a/arch/i386/kernel/dmi_scan.c
+++ b/arch/i386/kernel/dmi_scan.c
@@ -106,7 +106,7 @@ static void __init dmi_save_devices(stru
  struct dmi_device *dev;

  for (i = 0; i < count; i++) {
-  char *d = ((char *) dm) + (i * 2);
+  char *d = (char *)(dm + 1) + (i * 2);

   /* Skip disabled device */
   if ((*d & 0x80) == 0)
diff --git a/arch/powerpc/kernel/pci_64.c b/arch/powerpc/kernel/pci_64.c
index ba92bab..4c4449b 100644
--- a/arch/powerpc/kernel/pci_64.c
+++ b/arch/powerpc/kernel/pci_64.c
@@ -78,6 +78,7 @@ int global_phb_number;  /* Global phb co

 /* Cached ISA bridge dev. */
 struct pci_dev *ppc64_isabridge_dev = NULL;
+EXPORT_SYMBOL_GPL(ppc64_isabridge_dev);

 static void fixup_broken_pcnet32(struct pci_dev* dev)
 {
diff --git a/arch/x86_64/kernel/entry.S b/arch/x86_64/kernel/entry.S
index e9c9b8a..a15161e 100644
--- a/arch/x86_64/kernel/entry.S
+++ b/arch/x86_64/kernel/entry.S
@@ -180,6 +180,10 @@ rff_trace:
  *
  * XXX if we had a free scratch register we could save the RSP into the stack frame
  *      and report it properly in ps. Unfortunately we haven't.
+ *
+ * When user can change the frames always force IRET. That is because
+ * it deals with uncanonical addresses better. SYSRET has trouble
+ * with them due to bugs in both AMD and Intel CPUs.
  */

 ENTRY(system_call)
@@ -254,7 +258,10 @@ sysret_signal:
  xorl %esi,%esi # oldset -> arg2
  call ptregscall_common
 1: movl $_TIF_NEED_RESCHED,%edi
```

```
- jmp sysret_check
+ /* Use IRET because user could have changed frame. This
+    works because ptregscall_common has called FIXUP_TOP_OF_STACK. */
+ cli
+ jmp int_with_check

 badsys:
  movq $-ENOSYS,RAX-ARGOFFSET(%rsp)
@@ -280,7 +287,8 @@ tracesys:
  call syscall_trace_leave
  RESTORE_TOP_OF_STACK %rbx
  RESTORE_REST
- jmp ret_from_sys_call
+ /* Use IRET because user could have changed frame */
+ jmp int_ret_from_sys_call
  CFI_ENDPROC

 /*
@@ -408,25 +416,9 @@ ENTRY(stub_execve)
  CFI_ADJUST_CFA_OFFSET -8
  CFI_REGISTER rip, r11
  SAVE_REST
- movq %r11, %r15
- CFI_REGISTER rip, r15
  FIXUP_TOP_OF_STACK %r11
  call sys_execve
- GET_THREAD_INFO(%rcx)
- bt $TIF_IA32,threadinfo_flags(%rcx)
- CFI_REMEMBER_STATE
- jc exec_32bit
  RESTORE_TOP_OF_STACK %r11
- movq %r15, %r11
- CFI_REGISTER rip, r11
- RESTORE_REST
- pushq %r11
- CFI_ADJUST_CFA_OFFSET 8
- CFI_REL_OFFSET rip, 0
- ret
-
-exec_32bit:
- CFI_RESTORE_STATE
  movq %rax,RAX(%rsp)
  RESTORE_REST
  jmp int_ret_from_sys_call
diff --git a/drivers/base/cpu.c b/drivers/base/cpu.c
index 07a7f97..29f3d75 100644
--- a/drivers/base/cpu.c
+++ b/drivers/base/cpu.c
```

```
@@ -141,7 +141,7 @@ int __devinit register_cpu(struct cpu *c
  return error;
 }

-struct sys_device *get_cpu_sysdev(int cpu)
+struct sys_device *get_cpu_sysdev(unsigned cpu)
 {
  if (cpu < NR_CPUS)
   return cpu_sys_devices[cpu];
diff --git a/drivers/base/firmware_class.c b/drivers/base/firmware_class.c
index e97e911..4723182 100644
--- a/drivers/base/firmware_class.c
+++ b/drivers/base/firmware_class.c
@@ -211,18 +211,20 @@ static int
 fw_realloc_buffer(struct firmware_priv *fw_priv, int min_size)
 {
  u8 *new_data;
+ int new_size = fw_priv->alloc_size;

  if (min_size <= fw_priv->alloc_size)
   return 0;

- new_data = vmalloc(fw_priv->alloc_size + PAGE_SIZE);
+ new_size = ALIGN(min_size, PAGE_SIZE);
+ new_data = vmalloc(new_size);
  if (!new_data) {
   printk(KERN_ERR "%s: unable to alloc buffer\n", __FUNCTION__);
   /* Make sure that we don't keep incomplete data */
   fw_load_abort(fw_priv);
   return -ENOMEM;
  }
- fw_priv->alloc_size += PAGE_SIZE;
+ fw_priv->alloc_size = new_size;
  if (fw_priv->fw->data) {
   memcpy(new_data, fw_priv->fw->data, fw_priv->fw->size);
   vfree(fw_priv->fw->data);
diff --git a/drivers/base/node.c b/drivers/base/node.c
index 16c513a..c80c3ae 100644
--- a/drivers/base/node.c
+++ b/drivers/base/node.c
@@ -106,7 +106,7 @@ static ssize_t node_read_numastat(struct
  other_node = 0;
  for (i = 0; i < MAX_NR_ZONES; i++) {
   struct zone *z = &pg->node_zones[i];
-  for (cpu = 0; cpu < NR_CPUS; cpu++) {
+  for_each_online_cpu(cpu) {
    struct per_cpu_pageset *ps = zone_pcp(z,cpu);
    numa_hit += ps->numa_hit;
```

```
    numa_miss += ps->numa_miss;
diff --git a/drivers/block/cciss.c b/drivers/block/cciss.c
index 0d65394..c149d57 100644
--- a/drivers/block/cciss.c
+++ b/drivers/block/cciss.c
@@ -3269,8 +3269,8 @@ clean2:
  unregister_blkdev(hba[i]->major, hba[i]->devname);
 clean1:
  release_io_mem(hba[i]);
- free_hba(i);
  hba[i]->busy_initializing = 0;
+ free_hba(i);
  return(-1);
 }

diff --git a/drivers/char/Kconfig b/drivers/char/Kconfig
index 05ba410..8b72a61 100644
--- a/drivers/char/Kconfig
+++ b/drivers/char/Kconfig
@@ -187,6 +187,7 @@ config MOXA_SMARTIO
 config ISI
  tristate "Multi-Tech multiport card support (EXPERIMENTAL)"
  depends on SERIAL_NONSTANDARD
+ select FW_LOADER
  help
    This is a driver for the Multi-Tech cards which provide several
    serial ports.  The driver is experimental and can currently only be
diff --git a/drivers/char/tlclk.c b/drivers/char/tlclk.c
index 4c27218..2546637 100644
--- a/drivers/char/tlclk.c
+++ b/drivers/char/tlclk.c
@@ -767,6 +767,7 @@ static int __init tlclk_init(void)
   printk(KERN_ERR "tlclk: can't get major %d.\n", tlclk_major);
   return ret;
  }
+ tlclk_major = ret;
  alarm_events = kzalloc( sizeof(struct tlclk_alarms), GFP_KERNEL);
  if (!alarm_events)
   goto out1;
diff --git a/drivers/ieee1394/sbp2.c b/drivers/ieee1394/sbp2.c
index eca92eb..d83248e 100644
--- a/drivers/ieee1394/sbp2.c
+++ b/drivers/ieee1394/sbp2.c
@@ -495,22 +495,17 @@ static struct sbp2_command_info *sbp2uti
 /*
  * This function finds the sbp2_command for a given outstanding SCpnt.
  * Only looks at the inuse list.
+ * Must be called with scsi_id->sbp2_command_orb_lock held.
```

```
 */
-static struct sbp2_command_info *sbp2util_find_command_for_SCpnt(struct
scsi_id_instance_data *scsi_id, void *SCpnt)
+static struct sbp2_command_info *sbp2util_find_command_for_SCpnt(
+  struct scsi_id_instance_data *scsi_id, void *SCpnt)
 {
  struct sbp2_command_info *command;
- unsigned long flags;

- spin_lock_irqsave(&scsi_id->sbp2_command_orb_lock, flags);
- if (!list_empty(&scsi_id->sbp2_command_orb_inuse)) {
-  list_for_each_entry(command, &scsi_id->sbp2_command_orb_inuse, list) {
-   if (command->Current_SCpnt == SCpnt) {
-    spin_unlock_irqrestore(&scsi_id->sbp2_command_orb_lock, flags);
+ if (!list_empty(&scsi_id->sbp2_command_orb_inuse))
+  list_for_each_entry(command, &scsi_id->sbp2_command_orb_inuse, list)
+   if (command->Current_SCpnt == SCpnt)
     return command;
-   }
-  }
- }
- spin_unlock_irqrestore(&scsi_id->sbp2_command_orb_lock, flags);
  return NULL;
 }

@@ -579,17 +574,15 @@ static void sbp2util_free_command_dma(st

 /*
  * This function moves a command to the completed orb list.
+ * Must be called with scsi_id->sbp2_command_orb_lock held.
  */
-static void sbp2util_mark_command_completed(struct scsi_id_instance_data *scsi_id,
-        struct sbp2_command_info *command)
+static void sbp2util_mark_command_completed(
+  struct scsi_id_instance_data *scsi_id,
+  struct sbp2_command_info *command)
 {
- unsigned long flags;
-
- spin_lock_irqsave(&scsi_id->sbp2_command_orb_lock, flags);
  list_del(&command->list);
  sbp2util_free_command_dma(command);
  list_add_tail(&command->list, &scsi_id->sbp2_command_orb_completed);
- spin_unlock_irqrestore(&scsi_id->sbp2_command_orb_lock, flags);
 }

 /*
@@ -2177,7 +2170,9 @@ static int sbp2_handle_status_write(stru
```

```
    * Matched status with command, now grab scsi command pointers and check status
    */
   SCpnt = command->Current_SCpnt;
+  spin_lock_irqsave(&scsi_id->sbp2_command_orb_lock, flags);
   sbp2util_mark_command_completed(scsi_id, command);
+  spin_unlock_irqrestore(&scsi_id->sbp2_command_orb_lock, flags);

   if (SCpnt) {

@@ -2513,6 +2508,7 @@ static int sbp2scsi_abort(struct scsi_cm
   (struct scsi_id_instance_data *)SCpnt->device->host->hostdata[0];
  struct sbp2scsi_host_info *hi = scsi_id->hi;
  struct sbp2_command_info *command;
+ unsigned long flags;

  SBP2_ERR("aborting sbp2 command");
  scsi_print_command(SCpnt);
@@ -2523,6 +2519,7 @@ static int sbp2scsi_abort(struct scsi_cm
    * Right now, just return any matching command structures
    * to the free pool.
    */
+  spin_lock_irqsave(&scsi_id->sbp2_command_orb_lock, flags);
   command = sbp2util_find_command_for_SCpnt(scsi_id, SCpnt);
   if (command) {
    SBP2_DEBUG("Found command to abort");
@@ -2540,6 +2537,7 @@ static int sbp2scsi_abort(struct scsi_cm
     command->Current_done(command->Current_SCpnt);
    }
   }
+  spin_unlock_irqrestore(&scsi_id->sbp2_command_orb_lock, flags);

   /*
    * Initiate a fetch agent reset.
diff --git a/drivers/md/dm.c b/drivers/md/dm.c
index 745ca1f..d559569 100644
--- a/drivers/md/dm.c
+++ b/drivers/md/dm.c
@@ -533,30 +533,35 @@ static void __clone_and_map(struct clone

  } else {
   /*
-   * Create two copy bios to deal with io that has
-   * been split across a target.
+   * Handle a bvec that must be split between two or more targets.
    */
   struct bio_vec *bv = bio->bi_io_vec + ci->idx;
+  sector_t remaining = to_sector(bv->bv_len);
+  unsigned int offset = 0;
```

```
-  clone = split_bvec(bio, ci->sector, ci->idx,
-       bv->bv_offset, max);
-  __map_bio(ti, clone, tio);
-
-  ci->sector += max;
-  ci->sector_count -= max;
-  ti = dm_table_find_target(ci->map, ci->sector);
-
-  len = to_sector(bv->bv_len) - max;
-  clone = split_bvec(bio, ci->sector, ci->idx,
-       bv->bv_offset + to_bytes(max), len);
-  tio = alloc_tio(ci->md);
-  tio->io = ci->io;
-  tio->ti = ti;
-  memset(&tio->info, 0, sizeof(tio->info));
-  __map_bio(ti, clone, tio);
+  do {
+   if (offset) {
+    ti = dm_table_find_target(ci->map, ci->sector);
+    max = max_io_len(ci->md, ci->sector, ti);
+
+    tio = alloc_tio(ci->md);
+    tio->io = ci->io;
+    tio->ti = ti;
+    memset(&tio->info, 0, sizeof(tio->info));
+   }
+
+   len = min(remaining, max);
+
+   clone = split_bvec(bio, ci->sector, ci->idx,
+        bv->bv_offset + offset, len);
+
+   __map_bio(ti, clone, tio);
+
+   ci->sector += len;
+   ci->sector_count -= len;
+   offset += to_bytes(len);
+  } while (remaining -= len);

-  ci->sector += len;
-  ci->sector_count -= len;
    ci->idx++;
   }
  }
diff --git a/drivers/media/video/Kconfig b/drivers/media/video/Kconfig
index d82c8a3..ef42a26 100644
--- a/drivers/media/video/Kconfig
```

```
+++ b/drivers/media/video/Kconfig
@@ -349,6 +349,7 @@ config VIDEO_AUDIO_DECODER
 config VIDEO_DECODER
  tristate "Add support for additional video chipsets"
  depends on VIDEO_DEV && I2C && EXPERIMENTAL
+ select FW_LOADER
  ---help---
    Say Y here to compile drivers for SAA7115, SAA7127 and CX25840
    video decoders.
diff --git a/drivers/media/video/tuner-types.c b/drivers/media/video/tuner-types.c
index 6fe7817..5f3d46d 100644
--- a/drivers/media/video/tuner-types.c
+++ b/drivers/media/video/tuner-types.c
@@ -1087,8 +1087,8 @@ static struct tuner_params tuner_tnf_533
 /* ------------ TUNER_SAMSUNG_TCPN_2121P30A - Samsung NTSC ------------ */

 static struct tuner_range tuner_samsung_tcpn_2121p30a_ntsc_ranges[] = {
- { 16 * 175.75 /*MHz*/, 0x01, },
- { 16 * 410.25 /*MHz*/, 0x02, },
+ { 16 * 130.00 /*MHz*/, 0x01, },
+ { 16 * 364.50 /*MHz*/, 0x02, },
  { 16 * 999.99        , 0x08, },
 };

diff --git a/drivers/net/irda/irda-usb.c b/drivers/net/irda/irda-usb.c
index 8936058..6e2ec56 100644
--- a/drivers/net/irda/irda-usb.c
+++ b/drivers/net/irda/irda-usb.c
@@ -740,7 +740,7 @@ static void irda_usb_receive(struct urb
  struct sk_buff *newskb;
  struct sk_buff *dataskb;
  struct urb *next_urb;
- int  docopy;
+ unsigned int len, docopy;

  IRDA_DEBUG(2, "%s(), len=%d\n", __FUNCTION__, urb->actual_length);

@@ -851,10 +851,11 @@ static void irda_usb_receive(struct urb
  dataskb->dev = self->netdev;
  dataskb->mac.raw  = dataskb->data;
  dataskb->protocol = htons(ETH_P_IRDA);
+ len = dataskb->len;
  netif_rx(dataskb);

  /* Keep stats up to date */
- self->stats.rx_bytes += dataskb->len;
+ self->stats.rx_bytes += len;
  self->stats.rx_packets++;
```

```
  self->netdev->last_rx = jiffies;

diff --git a/drivers/net/wireless/Kconfig b/drivers/net/wireless/Kconfig
index ef85d76..8101657 100644
--- a/drivers/net/wireless/Kconfig
+++ b/drivers/net/wireless/Kconfig
@@ -239,7 +239,8 @@ config IPW2200_DEBUG

 config AIRO
  tristate "Cisco/Aironet 34X/35X/4500/4800 ISA and PCI cards"
- depends on NET_RADIO && ISA_DMA_API && CRYPTO && (PCI || BROKEN)
+  depends on NET_RADIO && ISA_DMA_API && (PCI || BROKEN)
+ select CRYPTO
  ---help---
    This is the standard Linux driver to support Cisco/Aironet ISA and
    PCI 802.11 wireless cards.
@@ -374,6 +375,7 @@ config PCMCIA_HERMES
 config PCMCIA_SPECTRUM
  tristate "Symbol Spectrum24 Trilogy PCMCIA card support"
  depends on NET_RADIO && PCMCIA && HERMES
+ select FW_LOADER
  ---help---

    This is a driver for 802.11b cards using RAM-loadable Symbol
@@ -387,6 +389,7 @@ config PCMCIA_SPECTRUM
 config AIRO_CS
  tristate "Cisco/Aironet 34X/35X/4500/4800 PCMCIA cards"
  depends on NET_RADIO && PCMCIA && (BROKEN || !M32R)
+ select CRYPTO
  ---help---
    This is the standard Linux driver to support Cisco/Aironet PCMCIA
    802.11 wireless cards.  This driver is the same as the Aironet
diff --git a/drivers/net/wireless/hostap/hostap_80211_tx.c
b/drivers/net/wireless/hostap/hostap_80211_tx.c
index 4a85e63..5f398bd 100644
--- a/drivers/net/wireless/hostap/hostap_80211_tx.c
+++ b/drivers/net/wireless/hostap/hostap_80211_tx.c
@@ -469,7 +469,7 @@ int hostap_master_start_xmit(struct sk_b
  }

  if (local->ieee_802_1x && meta->ethertype == ETH_P_PAE && tx.crypt &&
-     !(fc & IEEE80211_FCTL_VERS)) {
+     !(fc & IEEE80211_FCTL_PROTECTED)) {
   no_encrypt = 1;
   PDEBUG(DEBUG_EXTRA2, "%s: TX: IEEE 802.1X - passing "
          "unencrypted EAPOL frame\n", dev->name);
diff --git a/drivers/net/wireless/ipw2200.c b/drivers/net/wireless/ipw2200.c
index 287676a..aa6f3a4 100644
```

```
--- a/drivers/net/wireless/ipw2200.c
+++ b/drivers/net/wireless/ipw2200.c
@@ -9956,9 +9956,8 @@ static int ipw_ethtool_set_eeprom(struct
   return -EINVAL;
  down(&p->sem);
  memcpy(&p->eeprom[eeprom->offset], bytes, eeprom->len);
- for (i = IPW_EEPROM_DATA;
-      i < IPW_EEPROM_DATA + IPW_EEPROM_IMAGE_SIZE; i++)
-  ipw_write8(p, i, p->eeprom[i]);
+ for (i = 0; i < IPW_EEPROM_IMAGE_SIZE; i++)
+  ipw_write8(p, i + IPW_EEPROM_DATA, p->eeprom[i]);
  up(&p->sem);
  return 0;
 }
diff --git a/drivers/pcmcia/ds.c b/drivers/pcmcia/ds.c
index bb96ce1..a4333a8 100644
--- a/drivers/pcmcia/ds.c
+++ b/drivers/pcmcia/ds.c
@@ -546,7 +546,7 @@ static int pcmcia_device_query(struct pc
    tmp = vers1->str + vers1->ofs[i];

    length = strlen(tmp) + 1;
-   if ((length < 3) || (length > 255))
+   if ((length < 2) || (length > 255))
     continue;

    p_dev->prod_id[i] = kmalloc(sizeof(char) * length,
diff --git a/drivers/scsi/sata_mv.c b/drivers/scsi/sata_mv.c
index 2770005..b00af08 100644
--- a/drivers/scsi/sata_mv.c
+++ b/drivers/scsi/sata_mv.c
@@ -1102,6 +1102,7 @@ static u8 mv_get_crpb_status(struct ata_
  void __iomem *port_mmio = mv_ap_base(ap);
  struct mv_port_priv *pp = ap->private_data;
  u32 out_ptr;
+ u8 ata_status;

  out_ptr = readl(port_mmio + EDMA_RSP_Q_OUT_PTR_OFS);

@@ -1109,6 +1110,8 @@ static u8 mv_get_crpb_status(struct ata_
  assert(((out_ptr >> EDMA_RSP_Q_PTR_SHIFT) & MV_MAX_Q_DEPTH_MASK) ==
        pp->rsp_consumer);

+ ata_status = pp->crpb[pp->rsp_consumer].flags >> CRPB_FLAG_STATUS_SHIFT;
+
  /* increment our consumer index... */
  pp->rsp_consumer = mv_inc_q_index(&pp->rsp_consumer);
```

```
@@ -1123,7 +1126,7 @@ static u8 mv_get_crpb_status(struct ata_
  writelfl(out_ptr, port_mmio + EDMA_RSP_Q_OUT_PTR_OFS);

  /* Return ATA status register for completed CRPB */
- return (pp->crpb[pp->rsp_consumer].flags >> CRPB_FLAG_STATUS_SHIFT);
+ return ata_status;
 }

 /**
@@ -1192,7 +1195,6 @@ static void mv_host_intr(struct ata_host
  u32 hc_irq_cause;
  int shift, port, port0, hard_port, handled;
  unsigned int err_mask;
- u8 ata_status = 0;

  if (hc == 0) {
   port0 = 0;
@@ -1210,6 +1212,7 @@ static void mv_host_intr(struct ata_host
   hc,relevant,hc_irq_cause);

  for (port = port0; port < port0 + MV_PORTS_PER_HC; port++) {
+  u8 ata_status = 0;
   ap = host_set->ports[port];
   hard_port = port & MV_PORT_MASK; /* range 0-3 */
   handled = 0; /* ensure ata_status is set if handled++ */
diff --git a/drivers/usb/core/message.c b/drivers/usb/core/message.c
index 7135e54..96cabeb 100644
--- a/drivers/usb/core/message.c
+++ b/drivers/usb/core/message.c
@@ -1388,11 +1388,13 @@ free_interfaces:
  if (dev->state != USB_STATE_ADDRESS)
   usb_disable_device (dev, 1); // Skip ep0

- i = dev->bus_mA - cp->desc.bMaxPower * 2;
- if (i < 0)
-  dev_warn(&dev->dev, "new config #%d exceeds power "
-    "limit by %dmA\n",
-    configuration, -i);
+ if (cp) {
+  i = dev->bus_mA - cp->desc.bMaxPower * 2;
+  if (i < 0)
+   dev_warn(&dev->dev, "new config #%d exceeds power "
+     "limit by %dmA\n",
+     configuration, -i);
+ }

  if ((ret = usb_control_msg(dev, usb_sndctrlpipe(dev, 0),
    USB_REQ_SET_CONFIGURATION, 0, configuration, 0,
```

```
diff --git a/drivers/usb/host/ehci-sched.c b/drivers/usb/host/ehci-sched.c
index ebcca97..88419c6 100644
--- a/drivers/usb/host/ehci-sched.c
+++ b/drivers/usb/host/ehci-sched.c
@@ -707,6 +707,7 @@ iso_stream_init (
  } else {
   u32  addr;
   int  think_time;
+  int  hs_transfers;

   addr = dev->ttport << 24;
   if (!ehci_is_TDI(ehci)
@@ -719,6 +720,7 @@ iso_stream_init (
   think_time = dev->tt ? dev->tt->think_time : 0;
   stream->tt_usecs = NS_TO_US (think_time + usb_calc_bus_time (
     dev->speed, is_input, 1, maxp));
+  hs_transfers = max (1u, (maxp + 187) / 188);
   if (is_input) {
    u32 tmp;

@@ -727,12 +729,11 @@ iso_stream_init (
    stream->usecs = HS_USECS_ISO (1);
    stream->raw_mask = 1;

-   /* pessimistic c-mask */
-   tmp = usb_calc_bus_time (USB_SPEED_FULL, 1, 0, maxp)
-     / (125 * 1000);
-   stream->raw_mask |= 3 << (tmp + 9);
+   /* c-mask as specified in USB 2.0 11.18.4 3.c */
+   tmp = (1 << (hs_transfers + 2)) - 1;
+   stream->raw_mask |= tmp << (8 + 2);
   } else
-   stream->raw_mask = smask_out [maxp / 188];
+   stream->raw_mask = smask_out [hs_transfers - 1];
   bandwidth = stream->usecs + stream->c_usecs;
   bandwidth /= 1 << (interval + 2);

diff --git a/drivers/video/cfbimgblt.c b/drivers/video/cfbimgblt.c
index 910e233..8ba6152 100644
--- a/drivers/video/cfbimgblt.c
+++ b/drivers/video/cfbimgblt.c
@@ -169,7 +169,7 @@ static inline void slow_imageblit(const

   while (j--) {
    l--;
-   color = (*s & 1 << (FB_BIT_NR(l))) ? fgcolor : bgcolor;
+   color = (*s & (1 << l)) ? fgcolor : bgcolor;
    val |= FB_SHIFT_HIGH(color, shift);
```

```
    /* Did the bitshift spill bits to the next long? */
diff --git a/drivers/video/i810/i810_main.c b/drivers/video/i810/i810_main.c
index d8467c0..788297e 100644
--- a/drivers/video/i810/i810_main.c
+++ b/drivers/video/i810/i810_main.c
@@ -1508,7 +1508,7 @@ static int i810fb_cursor(struct fb_info
   int size = ((cursor->image.width + 7) >> 3) *
    cursor->image.height;
   int i;
-  u8 *data = kmalloc(64 * 8, GFP_KERNEL);
+  u8 *data = kmalloc(64 * 8, GFP_ATOMIC);

   if (data == NULL)
    return -ENOMEM;
diff --git a/fs/9p/vfs_inode.c b/fs/9p/vfs_inode.c
index 3ad8455..651a9e1 100644
--- a/fs/9p/vfs_inode.c
+++ b/fs/9p/vfs_inode.c
@@ -614,6 +614,7 @@ static struct dentry *v9fs_vfs_lookup(st

  sb = dir->i_sb;
  v9ses = v9fs_inode2v9ses(dir);
+ dentry->d_op = &v9fs_dentry_operations;
  dirfid = v9fs_fid_lookup(dentry->d_parent);

  if (!dirfid) {
@@ -681,8 +682,6 @@ static struct dentry *v9fs_vfs_lookup(st
   goto FreeFcall;

  fid->qid = fcall->params.rstat.stat.qid;
-
- dentry->d_op = &v9fs_dentry_operations;
  v9fs_stat2inode(&fcall->params.rstat.stat, inode, inode->i_sb);

  d_add(dentry, inode);
diff --git a/fs/nfsd/nfs3proc.c b/fs/nfsd/nfs3proc.c
index 6d2dfed..f61142a 100644
--- a/fs/nfsd/nfs3proc.c
+++ b/fs/nfsd/nfs3proc.c
@@ -682,7 +682,7 @@ static struct svc_procedure  nfsd_proced
   PROC(lookup,  dirop,  dirop,  fhandle2, RC_NOCACHE, ST+FH+pAT+pAT),
   PROC(access,  access, access,  fhandle,  RC_NOCACHE, ST+pAT+1),
   PROC(readlink, readlink, readlink, fhandle,  RC_NOCACHE,
ST+pAT+1+NFS3_MAXPATHLEN/4),
-  PROC(read,  read,  read,  fhandle,  RC_NOCACHE, ST+pAT+4+NFSSVC_MAXBLKSIZE),
+  PROC(read,  read,  read,  fhandle,  RC_NOCACHE, ST+pAT+4+NFSSVC_MAXBLKSIZE/4),
   PROC(write,  write,  write,  fhandle,  RC_REPLBUFF, ST+WC+4),
```

```
   PROC(create,  create, create,  fhandle2, RC_REPLBUFF, ST+(1+FH+pAT)+WC),
   PROC(mkdir,  mkdir,  create,  fhandle2, RC_REPLBUFF, ST+(1+FH+pAT)+WC),
diff --git a/fs/nfsd/nfs4proc.c b/fs/nfsd/nfs4proc.c
index 6d63f1d..ca8a4c4 100644
--- a/fs/nfsd/nfs4proc.c
+++ b/fs/nfsd/nfs4proc.c
@@ -975,7 +975,7 @@ struct nfsd4_voidargs { int dummy; };
  */
 static struct svc_procedure  nfsd_procedures4[2] = {
   PROC(null,  void,  void,  void,   RC_NOCACHE, 1),
-  PROC(compound, compound, compound, compound, RC_NOCACHE, NFSD_BUFSIZE)
+  PROC(compound, compound, compound, compound, RC_NOCACHE, NFSD_BUFSIZE/4)
 };

 struct svc_version nfsd_version4 = {
diff --git a/fs/nfsd/nfsproc.c b/fs/nfsd/nfsproc.c
index 3e6b75c..06cd0db 100644
--- a/fs/nfsd/nfsproc.c
+++ b/fs/nfsd/nfsproc.c
@@ -553,7 +553,7 @@ static struct svc_procedure  nfsd_proced
   PROC(none,  void,  void,  none,  RC_NOCACHE, ST),
   PROC(lookup,  diropargs, diropres, fhandle, RC_NOCACHE, ST+FH+AT),
   PROC(readlink, readlinkargs, readlinkres, none,  RC_NOCACHE,
ST+1+NFS_MAXPATHLEN/4),
-  PROC(read,  readargs, readres, fhandle, RC_NOCACHE, ST+AT+1+NFSSVC_MAXBLKSIZE),
+  PROC(read,  readargs, readres, fhandle, RC_NOCACHE,
ST+AT+1+NFSSVC_MAXBLKSIZE/4),
   PROC(none,  void,  void,  none,  RC_NOCACHE, ST),
   PROC(write,  writeargs, attrstat, fhandle, RC_REPLBUFF, ST+AT),
   PROC(create,  createargs, diropres, fhandle, RC_REPLBUFF, ST+FH+AT),
diff --git a/fs/proc/proc_misc.c b/fs/proc/proc_misc.c
index bedd830..2040b52 100644
--- a/fs/proc/proc_misc.c
+++ b/fs/proc/proc_misc.c
@@ -351,7 +351,7 @@ static void *devinfo_next(struct seq_fil
   case BLK_HDR:
    info->state = BLK_LIST;
    (*pos)++;
-   break;
+   /*fallthrough*/
   case BLK_LIST:
    if (get_blkdev_info(info->blkdev,&idummy,&ndummy)) {
     /*
diff --git a/fs/proc/vmcore.c b/fs/proc/vmcore.c
index 4063fb3..164a7d0 100644
--- a/fs/proc/vmcore.c
+++ b/fs/proc/vmcore.c
@@ -103,8 +103,8 @@ static ssize_t read_vmcore(struct file *
```

```
     size_t buflen, loff_t *fpos)
 {
  ssize_t acc = 0, tmp;
- size_t tsz, nr_bytes;
- u64 start;
+ size_t tsz;
+ u64 start, nr_bytes;
  struct vmcore *curr_m = NULL;

  if (buflen == 0 || *fpos >= vmcore_size)
diff --git a/fs/sysfs/dir.c b/fs/sysfs/dir.c
index ddc6717..cf94bda 100644
--- a/fs/sysfs/dir.c
+++ b/fs/sysfs/dir.c
@@ -309,6 +309,7 @@ void sysfs_remove_dir(struct kobject * k
   * Drop reference from dget() on entrance.
   */
  dput(dentry);
+ kobj->dentry = NULL;
 }

 int sysfs_rename_dir(struct kobject * kobj, const char *new_name)
diff --git a/fs/sysfs/file.c b/fs/sysfs/file.c
index 0af020f..a8df0fb 100644
--- a/fs/sysfs/file.c
+++ b/fs/sysfs/file.c
@@ -183,7 +183,7 @@ fill_write_buffer(struct sysfs_buffer *
   return -ENOMEM;

  if (count >= PAGE_SIZE)
-  count = PAGE_SIZE;
+  count = PAGE_SIZE - 1;
  error = copy_from_user(buffer->page,buf,count);
  buffer->needs_read_fill = 1;
  return error ? -EFAULT : count;
diff --git a/fs/sysfs/inode.c b/fs/sysfs/inode.c
index d384e91..8018161 100644
--- a/fs/sysfs/inode.c
+++ b/fs/sysfs/inode.c
@@ -226,12 +226,16 @@ void sysfs_drop_dentry(struct sysfs_dire
 void sysfs_hash_and_remove(struct dentry * dir, const char * name)
 {
  struct sysfs_dirent * sd;
- struct sysfs_dirent * parent_sd = dir->d_fsdata;
+ struct sysfs_dirent * parent_sd;
+
+ if (!dir)
+  return;
```

```
  if (dir->d_inode == NULL)
   /* no inode means this hasn't been made visible yet */
   return;

+ parent_sd = dir->d_fsdata;
  mutex_lock(&dir->d_inode->i_mutex);
  list_for_each_entry(sd, &parent_sd->s_children, s_sibling) {
   if (!sd->s_element)
diff --git a/fs/sysfs/symlink.c b/fs/sysfs/symlink.c
index 85ec936..bd75039 100644
--- a/fs/sysfs/symlink.c
+++ b/fs/sysfs/symlink.c
@@ -66,6 +66,7 @@ static int sysfs_add_link(struct dentry
  if (!error)
   return 0;

+ kobject_put(target);
  kfree(sl->link_name);
 exit2:
  kfree(sl);
diff --git a/fs/xfs/linux-2.6/xfs_aops.c b/fs/xfs/linux-2.6/xfs_aops.c
index 74d8be8..a980736 100644
--- a/fs/xfs/linux-2.6/xfs_aops.c
+++ b/fs/xfs/linux-2.6/xfs_aops.c
@@ -616,7 +616,7 @@ xfs_is_delayed_page(
     acceptable = (type == IOMAP_UNWRITTEN);
    else if (buffer_delay(bh))
     acceptable = (type == IOMAP_DELAY);
-   else if (buffer_mapped(bh))
+   else if (buffer_dirty(bh) && buffer_mapped(bh))
     acceptable = (type == 0);
    else
     break;
diff --git a/include/asm-powerpc/floppy.h b/include/asm-powerpc/floppy.h
index e258778..608164c 100644
--- a/include/asm-powerpc/floppy.h
+++ b/include/asm-powerpc/floppy.h
@@ -35,6 +35,7 @@
 #ifdef CONFIG_PCI

 #include <linux/pci.h>
+#include <asm/ppc-pci.h> /* for ppc64_isabridge_dev */

 #define fd_dma_setup(addr,size,mode,io) powerpc_fd_dma_setup(addr,size,mode,io)

@@ -52,12 +53,12 @@ static __inline__ int powerpc_fd_dma_set
  if (bus_addr
```

```
      && (addr != prev_addr || size != prev_size || dir != prev_dir)) {
   /* different from last time -- unmap prev */
-  pci_unmap_single(NULL, bus_addr, prev_size, prev_dir);
+  pci_unmap_single(ppc64_isabridge_dev, bus_addr, prev_size, prev_dir);
   bus_addr = 0;
  }

  if (!bus_addr) /* need to map it */
-  bus_addr = pci_map_single(NULL, addr, size, dir);
+  bus_addr = pci_map_single(ppc64_isabridge_dev, addr, size, dir);

  /* remember this one as prev */
  prev_addr = addr;
diff --git a/include/linux/cpu.h b/include/linux/cpu.h
index 0ed1d48..d612b89 100644
--- a/include/linux/cpu.h
+++ b/include/linux/cpu.h
@@ -32,7 +32,7 @@ struct cpu {
 };

 extern int register_cpu(struct cpu *, int, struct node *);
-extern struct sys_device *get_cpu_sysdev(int cpu);
+extern struct sys_device *get_cpu_sysdev(unsigned cpu);
 #ifdef CONFIG_HOTPLUG_CPU
 extern void unregister_cpu(struct cpu *, struct node *);
 #endif
diff --git a/include/linux/fb.h b/include/linux/fb.h
index 2cb19e6..2fdd8ae 100644
--- a/include/linux/fb.h
+++ b/include/linux/fb.h
@@ -839,12 +839,10 @@ struct fb_info {
 #define FB_LEFT_POS(bpp)          (32 - bpp)
 #define FB_SHIFT_HIGH(val, bits)  ((val) >> (bits))
 #define FB_SHIFT_LOW(val, bits)   ((val) << (bits))
-#define FB_BIT_NR(b)              (7 - (b))
 #else
 #define FB_LEFT_POS(bpp)          (0)
 #define FB_SHIFT_HIGH(val, bits)  ((val) << (bits))
 #define FB_SHIFT_LOW(val, bits)   ((val) >> (bits))
-#define FB_BIT_NR(b)              (b)
 #endif

     /*
diff --git a/include/linux/proc_fs.h b/include/linux/proc_fs.h
index 4e48793..092f894 100644
--- a/include/linux/proc_fs.h
+++ b/include/linux/proc_fs.h
@@ -78,7 +78,7 @@ struct kcore_list {
```

```
 struct vmcore {
  struct list_head list;
  unsigned long long paddr;
- unsigned long size;
+ unsigned long long size;
  loff_t offset;
 };

diff --git a/include/linux/raid/raid1.h b/include/linux/raid/raid1.h
index 9d5494a..3009c81 100644
--- a/include/linux/raid/raid1.h
+++ b/include/linux/raid/raid1.h
@@ -130,6 +130,6 @@ struct r1bio_s {
  * with failure when last write completes (and all failed).
  * Record that bi_end_io was called with this flag...
  */
-#define R1BIO_Returned 4
+#define R1BIO_Returned 6

 #endif
diff --git a/include/linux/rtc.h b/include/linux/rtc.h
index 0b2ba67..b739ac1 100644
--- a/include/linux/rtc.h
+++ b/include/linux/rtc.h
@@ -11,8 +11,6 @@
 #ifndef _LINUX_RTC_H_
 #define _LINUX_RTC_H_

-#include <linux/interrupt.h>
-
 /*
  * The struct used to pass data via the following ioctl. Similar to the
  * struct tm in <time.h>, but it needs to be here so that the kernel
@@ -95,6 +93,8 @@ struct rtc_pll_info {

 #ifdef __KERNEL__

+#include <linux/interrupt.h>
+
 typedef struct rtc_task {
  void (*func)(void *private_data);
  void *private_data;
diff --git a/kernel/exec_domain.c b/kernel/exec_domain.c
index 867d6db..c01cead 100644
--- a/kernel/exec_domain.c
+++ b/kernel/exec_domain.c
@@ -140,6 +140,7 @@ __set_personality(u_long personality)
  ep = lookup_exec_domain(personality);
```

```
  if (ep == current_thread_info()->exec_domain) {
   current->personality = personality;
+  module_put(ep->module);
   return 0;
  }

diff --git a/kernel/sched.c b/kernel/sched.c
index 9c561e2..fc46033 100644
--- a/kernel/sched.c
+++ b/kernel/sched.c
@@ -240,6 +240,7 @@ struct runqueue {

  task_t *migration_thread;
  struct list_head migration_queue;
+ int cpu;
 #endif

 #ifdef CONFIG_SCHEDSTATS
@@ -1965,6 +1966,9 @@ EXPORT_SYMBOL(nr_iowait_ve);
 /*
  * double_rq_lock - safely lock two runqueues
  *
+ * We must take them in cpu order to match code in
+ * dependent_sleeper and wake_dependent_sleeper.
+ *
  * Note this does not disable interrupts like task_rq_lock,
  * you need to do so manually before calling.
  */
@@ -1976,7 +1980,7 @@ static void double_rq_lock(runqueue_t *r
   spin_lock(&rq1->lock);
   __acquire(rq2->lock); /* Fake it out ;) */
  } else {
-  if (rq1 < rq2) {
+  if (rq1->cpu < rq2->cpu) {
    spin_lock(&rq1->lock);
    spin_lock(&rq2->lock);
   } else {
@@ -2012,7 +2016,7 @@ static void double_lock_balance(runqueue
  __acquires(this_rq->lock)
 {
  if (unlikely(!spin_trylock(&busiest->lock))) {
-  if (busiest < this_rq) {
+  if (busiest->cpu < this_rq->cpu) {
    spin_unlock(&this_rq->lock);
    spin_lock(&busiest->lock);
    spin_lock(&this_rq->lock);
@@ -6391,6 +6395,7 @@ void __init sched_init(void)
   rq->push_cpu = 0;
```

```
   rq->migration_thread = NULL;
   INIT_LIST_HEAD(&rq->migration_queue);
+  rq->cpu = i;
 #endif
   atomic_set(&rq->nr_iowait, 0);

diff --git a/kernel/signal.c b/kernel/signal.c
index 86d9a29..d58a823 100644
--- a/kernel/signal.c
+++ b/kernel/signal.c
@@ -992,7 +992,6 @@ __group_complete_signal(int sig, struct
   if (t == NULL)
    /* restart balancing at this thread */
    t = p->signal->curr_target = p;
-  BUG_ON(t->tgid != p->tgid);

   while (!wants_signal(sig, t)) {
    t = next_thread(t);
diff --git a/net/core/sock.c b/net/core/sock.c
index 489d1f0..18839a2 100644
--- a/net/core/sock.c
+++ b/net/core/sock.c
@@ -408,8 +408,9 @@ set_rcvbuf:
    if (!valbool) {
     sk->sk_bound_dev_if = 0;
    } else {
-    if (optlen > IFNAMSIZ)
-     optlen = IFNAMSIZ;
+    if (optlen > IFNAMSIZ - 1)
+     optlen = IFNAMSIZ - 1;
+    memset(devname, 0, sizeof(devname));
     if (copy_from_user(devname, optval, optlen)) {
      ret = -EFAULT;
      break;
diff --git a/net/ipv4/fib_trie.c b/net/ipv4/fib_trie.c
index e320b32..24009be 100644
--- a/net/ipv4/fib_trie.c
+++ b/net/ipv4/fib_trie.c
@@ -314,11 +314,6 @@ static void __leaf_free_rcu(struct rcu_h
  kfree(container_of(head, struct leaf, rcu));
 }

-static inline void free_leaf(struct leaf *leaf)
-{
- call_rcu(&leaf->rcu, __leaf_free_rcu);
-}
-
 static void __leaf_info_free_rcu(struct rcu_head *head)
```

```
 {
  kfree(container_of(head, struct leaf_info, rcu));
@@ -357,7 +352,12 @@ static void __tnode_free_rcu(struct rcu_

 static inline void tnode_free(struct tnode *tn)
 {
- call_rcu(&tn->rcu, __tnode_free_rcu);
+ if(IS_LEAF(tn)) {
+  struct leaf *l = (struct leaf *) tn;
+  call_rcu_bh(&l->rcu, __leaf_free_rcu);
+ }
+       else
+  call_rcu(&tn->rcu, __tnode_free_rcu);
 }

 static struct leaf *leaf_new(void)
diff --git a/net/ipv4/netfilter/ip_conntrack_netlink.c b/net/ipv4/netfilter/ip_conntrack_netlink.c
index a7167e0..56b3f1e 100644
--- a/net/ipv4/netfilter/ip_conntrack_netlink.c
+++ b/net/ipv4/netfilter/ip_conntrack_netlink.c
@@ -1631,7 +1631,7 @@ static void __exit ctnetlink_exit(void)
  printk("ctnetlink: unregistering from nfnetlink.\n");

 #ifdef CONFIG_IP_NF_CONNTRACK_EVENTS
- ip_conntrack_unregister_notifier(&ctnl_notifier_exp);
+  ip_conntrack_expect_unregister_notifier(&ctnl_notifier_e xp);
  ip_conntrack_unregister_notifier(&ctnl_notifier);
 #endif

diff --git a/net/netfilter/nf_conntrack_netlink.c b/net/netfilter/nf_conntrack_netlink.c
index 9ff3463..40edeef 100644
--- a/net/netfilter/nf_conntrack_netlink.c
+++ b/net/netfilter/nf_conntrack_netlink.c
@@ -1641,7 +1641,7 @@ static void __exit ctnetlink_exit(void)
  printk("ctnetlink: unregistering from nfnetlink.\n");

 #ifdef CONFIG_NF_CONNTRACK_EVENTS
- nf_conntrack_unregister_notifier(&ctnl_notifier_exp);
+  nf_conntrack_expect_unregister_notifier(&ctnl_notifier_e xp);
  nf_conntrack_unregister_notifier(&ctnl_notifier);
 #endif

diff --git a/security/keys/key.c b/security/keys/key.c
index 99781b7..0e2584e 100644
--- a/security/keys/key.c
+++ b/security/keys/key.c
@@ -785,6 +785,10 @@ key_ref_t key_create_or_update(key_ref_t
```

```
  key_check(keyring);

+ key_ref = ERR_PTR(-ENOTDIR);
+ if (keyring->type != &key_type_keyring)
+  goto error_2;
+
  down_write(&keyring->sem);

  /* if we're going to allocate a new key, we're going to have
diff --git a/security/keys/keyring.c b/security/keys/keyring.c
index d65a180..bffa924 100644
--- a/security/keys/keyring.c
+++ b/security/keys/keyring.c
@@ -437,6 +437,7 @@ EXPORT_SYMBOL(keyring_search);
 /*
  * search the given keyring only (no recursion)
  * - keyring must be locked by caller
+ * - caller must guarantee that the keyring is a keyring
  */
 key_ref_t __keyring_search_one(key_ref_t keyring_ref,
          const struct key_type *ktype,
diff --git a/sound/isa/opti9xx/opti92x-ad1848.c b/sound/isa/opti9xx/opti92x-ad1848.c
index 63d96be..65b28cb 100644
--- a/sound/isa/opti9xx/opti92x-ad1848.c
+++ b/sound/isa/opti9xx/opti92x-ad1848.c
@@ -2088,9 +2088,11 @@ static int __init alsa_card_opti9xx_init
  int error;
  struct platform_device *device;

+#ifdef CONFIG_PNP
  pnp_register_card_driver(&opti9xx_pnpc_driver);
  if (snd_opti9xx_pnp_is_probed)
   return 0;
+#endif
  if (! is_isapnp_selected()) {
   error = platform_driver_register(&snd_opti9xx_driver);
   if (error < 0)
@@ -2102,7 +2104,9 @@ static int __init alsa_card_opti9xx_init
   }
   platform_driver_unregister(&snd_opti9xx_driver);
  }
+#ifdef CONFIG_PNP
  pnp_unregister_card_driver(&opti9xx_pnpc_driver);
+#endif
 #ifdef MODULE
  printk(KERN_ERR "no OPTi " CHIP_NAME " soundcard found\n");
 #endif
@@ -2115,7 +2119,9 @@ static void __exit alsa_card_opti9xx_exi
```

```
   platform_device_unregister(snd_opti9xx_platform_device);
   platform_driver_unregister(&snd_opti9xx_driver);
  }
+#ifdef CONFIG_PNP
  pnp_unregister_card_driver(&opti9xx_pnpc_driver);
+#endif
 }

 module_init(alsa_card_opti9xx_init)
diff --git a/sound/pci/hda/patch_realtek.c b/sound/pci/hda/patch_realtek.c
index b767552..d5cd3a1 100644
--- a/sound/pci/hda/patch_realtek.c
+++ b/sound/pci/hda/patch_realtek.c
@@ -2948,6 +2948,8 @@ static struct hda_board_config alc260_cf
  { .modelname = "basic", .config = ALC260_BASIC },
  { .pci_subvendor = 0x104d, .pci_subdevice = 0x81bb,
    .config = ALC260_BASIC }, /* Sony VAIO */
+ { .pci_subvendor = 0x152d, .pci_subdevice = 0x0729,
+   .config = ALC260_BASIC }, /* CTL Travel Master U553W */
  { .modelname = "hp", .config = ALC260_HP },
  { .pci_subvendor = 0x103c, .pci_subdevice = 0x3010, .config = ALC260_HP },
  { .pci_subvendor = 0x103c, .pci_subdevice = 0x3011, .config = ALC260_HP },
```

File Attachments

1) diff-merge-2.6.15.5-20060413, downloaded 539 times