

Re: 2.6.27-rc1-mm1: rmmmod ide-cd_mod oops

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-08/msg00843.html>

- *From:* Mariusz Kozlowski <m.kozlowski@xxxxxxxxxxx>
 - *Date:* Sun, 3 Aug 2008 01:25:04 +0200
-

Hi,

rmmmod on ide-cd_mod causes this oops:

```
BUG: unable to handle kernel paging request at 83535683
IP: [
```

```
Pid: 3890, comm: rmmmod Not tainted (2.6.27-rc1-mm1 #2)
EIP: 0060:[<c0246ffa>] EFLAGS: 00010286 CPU: 0
EIP is at ide_device_put+0xc/0x33
EAX: 83535657 EBX: dc927a00 ECX: 00000003 EDX: 00000001
ESI: dec34e34 EDI: dec34e34 EBP: d9f46ee0 ESP: d9f46edc
DS: 007b ES: 007b FS: 0000 GS: 0033 SS: 0068
Process rmmmod (pid: 3890, ti=d9f46000 task=dd88e780 task.ti=d9f46000)
Stack: dc927c00 d9f46eec dec2e202 dc927c00 d9f46ef8 dec2e225 dd9138dc
d9f46f00
c02469e0 d9f46f10 c024156f dd9138dc dd9139f4 d9f46f24 c024162c
00000880
dec34e34 c0397dc0 d9f46f38 c0240a33 00000880 dec34e34 00000000
d9f46f48
Call Trace:
[<dec2e202>] ? ide_cd_put+0x26/0x33 [ide_cd_mod]
[<dec2e225>] ? ide_cd_remove+0x16/0x19 [ide_cd_mod]
[<c02469e0>] ? generic_ide_remove+0x1a/0x1e
[<c024156f>] ? __device_release_driver+0x59/0x7f
[<c024162c>] ? driver_detach+0x97/0x99
[<c0240a33>] ? bus_remove_driver+0x6f/0x8b
[<c02419f1>] ? driver_unregister+0x2f/0x33
[<dec31331>] ? ide_cdrom_exit+0xd/0xf [ide_cd_mod]
[<c014265a>] ? sys_delete_module+0x10d/0x1e2
```

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```
[<c015fedc>] ? do_munmap+0x1d7/0x234
[<c01e8684>] ? trace_hardirqs_on_thunk+0xc/0x10
[<c0103015>] ? sysenter_do_call+0x12/0x35
=====
Code: ff ff 89 44 24 08 c7 44 24 04 a7 de 35 c0 89 34 24 e8 cb ce f9 ff 31 c0
83 c4 0c 5b 5e 5d c3 55 89 e5 53 89 c3 8b 40 24 8b 40 10 <8b> 40 2c 85 c0
74 12 8b 80 44 01 00 00 8b 40 08 85 c0 74 05 e8
EIP: [<c0246ffa>] ide_device_put+0xc/0x33 SS:ESP 0068:d9f46edc
---[ end trace a2eed48430d87636 ]---
```

this is easily reproducible, more investigation points here:

Unfortunately, I'm unable to reproduce it here with 2.6.27-rc1-mm1.

Which IDE host driver is it happening with? Could you send me your .config?

It's ALI M15x3 chipset. .config is attached.

```
# lspci
00:00.0 Host bridge: ATI Technologies Inc RS200/RS200M AGP Bridge [IGP 340M] (rev 02)
00:01.0 PCI bridge: ATI Technologies Inc PCI Bridge [IGP 340M]
00:03.0 Modem: ALi Corporation M5457 AC'97 Modem Controller
00:04.0 Multimedia audio controller: ALi Corporation M5451 PCI AC-Link Controller Audio Device (rev 02)
00:06.0 Bridge: ALi Corporation M7101 Power Management Controller [PMU]
00:07.0 ISA bridge: ALi Corporation M1533/M1535 PCI to ISA Bridge [Aladdin IV/V/V+]
00:0a.0 CardBus bridge: Ricoh Co Ltd RL5c476 II (rev aa)
00:0a.1 CardBus bridge: Ricoh Co Ltd RL5c476 II (rev aa)
00:0a.2 FireWire (IEEE 1394): Ricoh Co Ltd R5C552 IEEE 1394 Controller (rev 02)
00:0c.0 USB Controller: VIA Technologies, Inc. VT82xxxxx UHCI USB 1.1 Controller (rev 50)
00:0c.1 USB Controller: VIA Technologies, Inc. VT82xxxxx UHCI USB 1.1 Controller (rev 50)
00:0c.2 USB Controller: VIA Technologies, Inc. USB 2.0 (rev 51)
00:0f.0 IDE interface: ALi Corporation M5229 IDE (rev c4)
00:12.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL-8139/8139C/8139C+ (rev 10)
01:05.0 VGA compatible controller: ATI Technologies Inc Radeon IGP 330M/340M/350M
```

```
(gdb) l *ide_device_put+0xc
0xc0246ffa is in ide_device_put
(/home/mako/linux/lkt/sources/linux-2.6.27-rc1-mm1/drivers/ide/ide.c:717).
712 * the underlying LLDD module.
713 */
714 void ide_device_put(ide_drive_t *drive)
715 {
716 #ifdef CONFIG_MODULE_UNLOAD
717 struct device *host_dev = drive->hwif->host->dev[0];
<-----
```

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Could you please check whether it is drive->hwif or hwif->host exploding?
[hmm, both should never be changed after host driver initialization]

I saw it exploding in two ways. I added simple debugging stuff:

```
--- linux-2.6.27-rc1-mm1/drivers/ide/ide.c 2008-08-02 11:42:05.000000000 +0200
+++ linux-2.6.27-rc1-mm1-dirty/drivers/ide/ide.c 2008-08-02 23:26:52.000000000 +0200
@@ -714,6 +714,21 @@ EXPORT_SYMBOL_GPL(ide_device_get);
void ide_device_put(ide_drive_t *drive)
{
#ifdef CONFIG_MODULE_UNLOAD
+ void *tmp;
+
+ tmp = drive;
+ printk("drive: 0x%p\n", tmp);
+ tmp = drive->hwif;
+ printk("drive->hwif: 0x%p\n", tmp);
+ tmp = drive->hwif->host;
+ printk("drive->hwif->host: 0x%p\n", tmp);
+ tmp = drive->hwif->host->dev;
+ printk("drive->hwif->host->dev: 0x%p\n", tmp);
+ tmp = drive->hwif->host->dev[0];
+ printk("drive->hwif->host->dev[0]: 0x%p\n", tmp);
+ tmp = drive->hwif->host->dev[0]->driver;
+ printk("drive->hwif->host->dev[0]->driver: 0x%p\n", tmp);
+
struct device *host_dev = drive->hwif->host->dev[0];
struct module *module = host_dev ? host_dev->driver->owner : NULL;
```

1) on drive->hwif (drive is null)

```
drive: 0x00000000
BUG: unable to handle kernel NULL pointer dereference at 00000024
IP: [0247007>] ide_device_put+0x19/0xc3
*pde = 00000000
Oops: 0000 [#1] PREEMPT
last sysfs file: /sys/class/power_supply/BAT1/energy_full
Modules linked in: nfsd lockd sunrpc exportfs orinoco_cs orinoco hermes pcmcia ehci_hcd uhci_hcd usbcore
yenta_socket snd_ali5451 snd_ac97_codec ac97_bus snd_pcm rsrc_nonstatic ati_agp snd_timer agpgart
psmouse pcspkr rtc ide_cd_mod(-) snd soundcore snd_page_alloc cdrom 8139too sony_laptop backlight
floppy
```

```
Pid: 4477, comm: rmmmod Not tainted (2.6.27-rc1-mm1-dirty #7)
EIP: 0060:[<c0247007>] EFLAGS: 00010286 CPU: 0
EIP is at ide_device_put+0x19/0xc3
EAX: 00000015 EBX: 00000000 ECX: ddaac000 EDX: 00000000
ESI: dec3de34 EDI: dec3de34 EBP: ddaacee0 ESP: ddaaced4
DS: 007b ES: 007b FS: 0000 GS: 0033 SS: 0068
```

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Process rmmmod (pid: 4477, ti=ddaac000 task=dd901700 task.ti=ddaac000)
Stack: c035e577 00000000 dd83ae00 ddaaceec dec37202 dd83ae00 ddaacef8 dec37225
dd9138dc ddaacf00 c02469e0 ddaacf10 c024156f dd9138dc dd9139f4 ddaacf24
c024162c 00000880 dec3de34 c0398dc0 ddaacf38 c0240a33 00000880 dec3de34

Call Trace:

[<dec37202>] ? ide_cd_put+0x26/0x33 [ide_cd_mod]
[<dec37225>] ? ide_cd_remove+0x16/0x19 [ide_cd_mod]
[<c02469e0>] ? generic_ide_remove+0x1a/0x1e
[<c024156f>] ? __device_release_driver+0x59/0x7f
[<c024162c>] ? driver_detach+0x97/0x99
[<c0240a33>] ? bus_remove_driver+0x6f/0x8b
[<c02419f1>] ? driver_unregister+0x2f/0x33
[<dec3a331>] ? ide_cdrom_exit+0xd/0xf [ide_cd_mod]
[<c014265a>] ? sys_delete_module+0x10d/0x1e2
[<c015fedc>] ? do_munmap+0x1d7/0x234
[<c01e8684>] ? trace_hardirqs_on_thunk+0xc/0x10
[<c0103015>] ? sysenter_do_call+0x12/0x35

=====

Code: c0 89 34 24 e8 cb ce f9 ff 31 c0 83 c4 0c 5b 5e 5d c3 55 89 e5 53 83 ec 08 89 c3 89 44 24 04 c7 04 24
77 e5 35 c0 e8 25 6c ed ff <8b> 43 24 89 44 24 04 c7 04 24 84 e5 35 c0 e8 12 6c ed ff 8b 43

EIP: [<c0247007>] ide_device_put+0x19/0xc3 SS:ESP 0068:ddaaced4

---[end trace b3172ff03a3b3a53]---

```
(gdb) l *ide_device_put+0x19
0xc0247007 is in ide_device_put
(/home/mako/linux/ikt/sources/linux-2.6.27-rc1-mm1-dirty/drivers/ide/ide.c:722).
717 void *tmp;
718
719 tmp = drive;
720 printk("drive: 0x%p\n", tmp);
721 tmp = drive->hwif;
722 printk("drive->hwif: 0x%p\n", tmp); <-----
723 tmp = drive->hwif->host;
724 printk("drive->hwif->host: 0x%p\n", tmp);
725 tmp = drive->hwif->host->dev;
726 printk("drive->hwif->host->dev: 0x%p\n", tmp);
```

2) on drive->hwif->host->dev[0] (->dev is bogus?)

```
drive: 0xdd97c200
drive->hwif: 0xc023f3b8
drive->hwif->host: 0x83535657
drive->hwif->host->dev: 0x83535683
BUG: unable to handle kernel paging request at 83535683
IP: [<c024704f>] ide_device_put+0x61/0xc3
*pde = 00000000
Oops: 0000 [#1] PREEMPT
last sysfs file: /sys/class/power_supply/BAT1/energy_full
Modules linked in: radeon drm nfsd lockd sunrpc exportfs orinoco_cs orinoco hermes pcmcia uhci_hcd
```

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ehci_hcd snd_ali5451 usbcore yenta_socket snd_ac97_codec ac97_bus snd_pcm snd_timer rsrc_nonstatic pcspkr ati_agp ide_cd_mod(-) snd_psmouse sony_laptop agpgart floppy cdrom soundcore snd_page_alloc backlight rtc 8139too

Pid: 4596, comm: rmmmod Not tainted (2.6.27-rc1-mm1-dirty #7)

EIP: 0060:[<c024704f>] EFLAGS: 00010286 CPU: 0

EIP is at ide_device_put+0x61/0xc3

EAX: 83535657 EBX: dd97c200 ECX: d9e68000 EDX: 00000000

ESI: dec53e34 EDI: dec53e34 EBP: d9e68ee0 ESP: d9e68ed4

DS: 007b ES: 007b FS: 0000 GS: 0033 SS: 0068

Process rmmmod (pid: 4596, ti=d9e68000 task=dd837300 task.ti=d9e68000)

Stack: c035e5b0 83535683 dd97c600 d9e68eec dec4d202 dd97c600 d9e68ef8 dec4d225

dd9138dc d9e68f00 c02469e0 d9e68f10 c024156f dd9138dc dd9139f4 d9e68f24

c024162c 00000880 dec53e34 c0398dc0 d9e68f38 c0240a33 00000880 dec53e34

Call Trace:

[<dec4d202>] ? ide_cd_put+0x26/0x33 [ide_cd_mod]

[<dec4d225>] ? ide_cd_remove+0x16/0x19 [ide_cd_mod]

[<c02469e0>] ? generic_ide_remove+0x1a/0x1e

[<c024156f>] ? __device_release_driver+0x59/0x7f

[<c024162c>] ? driver_detach+0x97/0x99

[<c0240a33>] ? bus_remove_driver+0x6f/0x8b

[<c02419f1>] ? driver_unregister+0x2f/0x33

[<dec50331>] ? ide_cdrom_exit+0xd/0xf [ide_cd_mod]

[<c014265a>] ? sys_delete_module+0x10d/0x1e2

[<c015fedc>] ? do_munmap+0x1d7/0x234

[<c01e8684>] ? trace_hardirqs_on_thunk+0xc/0x10

[<c0103015>] ? sysenter_do_call+0x12/0x35

=====

Code: c7 04 24 97 e5 35 c0 e8 fc 6b ed ff 8b 43 24 8b 40 10 83 c0 2c 89 44 24 04 c7 04 24 b0 e5 35 c0 e8 e3

6b ed ff 8b 43 24 8b 40 10 <8b> 40 2c 89 44 24 04 c7 04 24 70 2a 35 c0 e8 ca 6b ed ff 8b 43

EIP: [<c024704f>] ide_device_put+0x61/0xc3 SS:ESP 0068:d9e68ed4

---[end trace ad4ca87090e240bd]---

(gdb) l *ide_device_put+0x61

0xc024704f is in ide_device_put

(/home/mako/linux/lkt/sources/linux-2.6.27-rc1-mm1-dirty/drivers/ide/ide.c:728).

723 tmp = drive->hwif->host;

724 printk("drive->hwif->host: 0x%p\n", tmp);

725 tmp = drive->hwif->host->dev;

726 printk("drive->hwif->host->dev: 0x%p\n", tmp);

727 tmp = drive->hwif->host->dev[0];

728 printk("drive->hwif->host->dev[0]: 0x%p\n", tmp); <-----

729 tmp = drive->hwif->host->dev[0]->driver;

730 printk("drive->hwif->host->dev[0]->driver: 0x%p\n", tmp);

731

732 struct device *host_dev = drive->hwif->host->dev[0];

Hope that helps.

Mariusz

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```
718 struct module *module = host_dev ? host_dev->driver->owner : NULL;
719
720 if (module)
721 module_put(module);
```

Mariusz

```
#
# Automatically generated make config: don't edit
# Linux kernel version: 2.6.27-rc1-mm1
# Sat Aug 2 10:25:20 2008
#
# CONFIG_64BIT is not set
CONFIG_X86_32=y
# CONFIG_X86_64 is not set
CONFIG_X86=y
CONFIG_ARCH_DEFCONFIG="arch/x86/configs/i386_defconfig"
# CONFIG_GENERIC_LOCKBREAK is not set
CONFIG_GENERIC_TIME=y
CONFIG_GENERIC_CMOS_UPDATE=y
CONFIG_CLOCKSOURCE_WATCHDOG=y
CONFIG_GENERIC_CLOCKEVENTS=y
CONFIG_GENERIC_CLOCKEVENTS_BROADCAST=y
CONFIG_LOCKDEP_SUPPORT=y
CONFIG_STACKTRACE_SUPPORT=y
CONFIG_HAVE_LATENCYTOP_SUPPORT=y
CONFIG_FAST_CMPXCHG_LOCAL=y
CONFIG_MMU=y
CONFIG_ZONE_DMA=y
CONFIG_GENERIC_ISA_DMA=y
CONFIG_GENERIC_IOMAP=y
CONFIG_GENERIC_BUG=y
CONFIG_GENERIC_HWEIGHT=y
# CONFIG_GENERIC_GPIO is not set
CONFIG_ARCH_MAY_HAVE_PC_FDC=y
# CONFIG_RWSEM_GENERIC_SPINLOCK is not set
CONFIG_RWSEM_XCHGADD_ALGORITHM=y
# CONFIG_ARCH_HAS_ILOG2_U32 is not set
# CONFIG_ARCH_HAS_ILOG2_U64 is not set
CONFIG_ARCH_HAS_CPU_IDLE_WAIT=y
CONFIG_GENERIC_CALIBRATE_DELAY=y
```

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```
# CONFIG_GENERIC_TIME_VSYSCALL is not set
CONFIG_ARCH_HAS_CPU_RELAX=y
CONFIG_ARCH_HAS_CACHE_LINE_SIZE=y
# CONFIG_HAVE_SETUP_PER_CPU_AREA is not set
# CONFIG_HAVE_CPUMASK_OF_CPU_MAP is not set
CONFIG_ARCH_HIBERNATION_POSSIBLE=y
CONFIG_ARCH_SUSPEND_POSSIBLE=y
# CONFIG_ZONE_DMA32 is not set
CONFIG_ARCH_POPULATES_NODE_MAP=y
# CONFIG_AUDIT_ARCH is not set
CONFIG_ARCH_SUPPORTS_AOUT=y
CONFIG_ARCH_SUPPORTS_OPTIMIZED_INLINING=y
CONFIG_GENERIC_HARDIRQS=y
CONFIG_GENERIC_IRQ_PROBE=y
CONFIG_X86_BIOS_REBOOT=y
CONFIG_KTIME_SCALAR=y
CONFIG_DEFCONFIG_LIST="/lib/modules/$UNAME_RELEASE/.config"
```

```
#
# General setup
#
CONFIG_EXPERIMENTAL=y
CONFIG_BROKEN_ON_SMP=y
CONFIG_LOCK_KERNEL=y
CONFIG_INIT_ENV_ARG_LIMIT=32
CONFIG_LOCALVERSION=""
CONFIG_LOCALVERSION_AUTO=y
CONFIG_SWAP=y
CONFIG_SYSVIPC=y
CONFIG_SYSVIPC_SYSCTL=y
CONFIG_POSIX_QUEUE=y
CONFIG_BSD_PROCESS_ACCT=y
# CONFIG_BSD_PROCESS_ACCT_V3 is not set
# CONFIG_TASKSTATS is not set
# CONFIG_AUDIT is not set
CONFIG_IKCONFIG=y
CONFIG_IKCONFIG_PROC=y
CONFIG_LOG_BUF_SHIFT=19
# CONFIG_CGROUPS is not set
CONFIG_HAVE_UNSTABLE_SCHED_CLOCK=y
# CONFIG_GROUP_SCHED is not set
CONFIG_SYSFS_DEPRECATED=y
CONFIG_SYSFS_DEPRECATED_V2=y
# CONFIG_RELAY is not set
CONFIG_NAMESPACES=y
# CONFIG_UTS_NS is not set
# CONFIG_IPC_NS is not set
# CONFIG_USER_NS is not set
# CONFIG_PID_NS is not set
# CONFIG_BLK_DEV_INITRD is not set
# CONFIG_CC_OPTIMIZE_FOR_SIZE is not set
```

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```
CONFIG_SYSCTL=y
# CONFIG_EMBEDDED is not set
CONFIG_UID16=y
CONFIG_SYSCTL_SYSCALL=y
CONFIG_SYSCTL_SYSCALL_CHECK=y
CONFIG_KALLSYMS=y
CONFIG_KALLSYMS_ALL=y
# CONFIG_KALLSYMS_EXTRA_PASS is not set
CONFIG_HOTPLUG=y
CONFIG_PRINTK=y
CONFIG_BUG=y
CONFIG_ELF_CORE=y
CONFIG_PCSPKR_PLATFORM=y
# CONFIG_COMPAT_BRK is not set
CONFIG_BASE_FULL=y
CONFIG_FUTEX=y
CONFIG_ANON_INODES=y
CONFIG_EPOLL=y
CONFIG_SIGNALFD=y
CONFIG_TIMERFD=y
CONFIG_EVENTFD=y
CONFIG_SHMEM=y
CONFIG_IGMP=y
CONFIG_FILE_LOCKING=y
CONFIG_AIO=y
CONFIG_VM_EVENT_COUNTERS=y
CONFIG_SLUB_DEBUG=y
# CONFIG_SLAB is not set
CONFIG_SLUB=y
# CONFIG_SLOB is not set
# CONFIG_PROFILING is not set
CONFIG_MARKERS=y
CONFIG_HAVE_OPROFILE=y
# CONFIG_KPROBES is not set
CONFIG_HAVE_EFFICIENT_UNALIGNED_ACCESS=y
CONFIG_HAVE_IOREMAP_PROT=y
CONFIG_HAVE_KPROBES=y
CONFIG_HAVE_KRETPROBES=y
CONFIG_HAVE_ARCH_TRACEHOOK=y
# CONFIG_HAVE_DMA_ATTRS is not set
# CONFIG_USE_GENERIC_SMP_HELPERS is not set
# CONFIG_HAVE_CLK is not set

#
# GCOV profiling
#
CONFIG_PROC_PAGE_MONITOR=y
CONFIG_HAVE_GENERIC_DMA_COHERENT=y
CONFIG_SLABINFO=y
CONFIG_RT_MUTEXES=y
# CONFIG_TINY_SHMEM is not set
```

```
CONFIG_BASE_SMALL=0
CONFIG_MODULES=y
# CONFIG_MODULE_FORCE_LOAD is not set
CONFIG_MODULE_UNLOAD=y
CONFIG_MODULE_FORCE_UNLOAD=y
# CONFIG_MODVERSIONS is not set
# CONFIG_MODULE_SRCVERSION_ALL is not set
CONFIG_KMOD=y
CONFIG_BLOCK=y
# CONFIG_LBD is not set
# CONFIG_BLK_DEV_IO_TRACE is not set
# CONFIG_LSF is not set
# CONFIG_BLK_DEV_BSG is not set
# CONFIG_BLK_DEV_INTEGRITY is not set

#
# IO Schedulers
#
CONFIG_IOSCHED_NOOP=y
# CONFIG_IOSCHED_AS is not set
# CONFIG_IOSCHED_DEADLINE is not set
CONFIG_IOSCHED_CFQ=y
# CONFIG_DEFAULT_AS is not set
# CONFIG_DEFAULT_DEADLINE is not set
CONFIG_DEFAULT_CFQ=y
# CONFIG_DEFAULT_NOOP is not set
CONFIG_DEFAULT_IOSCHED="cfq"
# CONFIG_CLASSIC_RCU is not set

#
# Processor type and features
#
CONFIG_TICK_ONESHOT=y
CONFIG_NO_HZ=y
CONFIG_HIGH_RES_TIMERS=y
CONFIG_GENERIC_CLOCKEVENTS_BUILD=y
# CONFIG_SMP is not set
# CONFIG_X86_MPPARSE is not set
CONFIG_X86_PC=y
# CONFIG_X86_ELAN is not set
# CONFIG_X86_VOYAGER is not set
# CONFIG_X86_GENERICARCH is not set
# CONFIG_X86_VSMP is not set
# CONFIG_X86_RDC321X is not set
CONFIG_SCHED_NO_NO_OMIT_FRAME_POINTER=y
# CONFIG_PARAVIRT_GUEST is not set
# CONFIG_MEMTEST is not set
# CONFIG_M386 is not set
# CONFIG_M486 is not set
# CONFIG_M586 is not set
# CONFIG_M586TSC is not set
```

```
# CONFIG_M586MMX is not set
# CONFIG_M686 is not set
# CONFIG_MPENTIUMII is not set
# CONFIG_MPENTIUMIII is not set
# CONFIG_MPENTIUMMM is not set
CONFIG_MPENTIUM4=y
# CONFIG_MK6 is not set
# CONFIG_MK7 is not set
# CONFIG_MK8 is not set
# CONFIG_MCRUSOE is not set
# CONFIG_MEFFICEON is not set
# CONFIG_MWINCHIP6 is not set
# CONFIG_MWINCHIP2 is not set
# CONFIG_MWINCHIP3D is not set
# CONFIG_MGEODEGX1 is not set
# CONFIG_MGEODE_LX is not set
# CONFIG_MCYRIXIII is not set
# CONFIG_MVIAC3_2 is not set
# CONFIG_MVIAC7 is not set
# CONFIG_MPSC is not set
# CONFIG_MCORE2 is not set
# CONFIG_GENERIC_CPU is not set
# CONFIG_X86_GENERIC is not set
CONFIG_X86_CPU=y
CONFIG_X86_CMPXCHG=y
CONFIG_X86_L1_CACHE_SHIFT=7
CONFIG_X86_XADD=y
CONFIG_X86_WP_WORKS_OK=y
CONFIG_X86_INVLPG=y
CONFIG_X86_BSWAP=y
CONFIG_X86_POPAD_OK=y
CONFIG_X86_INTEL_USERCOPY=y
CONFIG_X86_USE_PPRO_CHECKSUM=y
CONFIG_X86_P6_NOP=y
CONFIG_X86_TSC=y
CONFIG_X86_CMOV=y
CONFIG_X86_MINIMUM_CPU_FAMILY=6
CONFIG_X86_DEBUGCTLMSR=y
CONFIG_HPET_TIMER=y
CONFIG_HPET_EMULATE_RTC=y
CONFIG_DMI=y
# CONFIG_IOMMU_HELPER is not set
# CONFIG_PREEMPT_NONE is not set
# CONFIG_PREEMPT_VOLUNTARY is not set
CONFIG_PREEMPT=y
CONFIG_PREEMPT_RCU=y
# CONFIG_RCU_TRACE is not set
CONFIG_X86_UP_APIC=y
CONFIG_X86_UP_IOAPIC=y
CONFIG_X86_LOCAL_APIC=y
CONFIG_X86_IO_APIC=y
```

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```
CONFIG_X86_MCE=y
CONFIG_X86_MCE_NONFATAL=y
CONFIG_X86_MCE_P4THERMAL=y
CONFIG_VM86=y
# CONFIG_TOSHIBA is not set
# CONFIG_I8K is not set
# CONFIG_X86_REBOOTFIXUPS is not set
CONFIG_MICROCODE=m
CONFIG_MICROCODE_OLD_INTERFACE=y
CONFIG_X86_MSR=m
CONFIG_X86_CPUID=m
CONFIG_NOHIGHMEM=y
# CONFIG_HIGHMEM4G is not set
# CONFIG_HIGHMEM64G is not set
CONFIG_PAGE_OFFSET=0xC0000000
# CONFIG_X86_PAE is not set
CONFIG_NEED_NODE_MEMMAP_SIZE=y
CONFIG_ARCH_FLATMEM_ENABLE=y
CONFIG_ARCH_SPARSEMEM_ENABLE=y
CONFIG_ARCH_SELECT_MEMORY_MODEL=y
CONFIG_ILLEGAL_POINTER_VALUE=0
CONFIG_SELECT_MEMORY_MODEL=y
# CONFIG_FLATMEM_MANUAL is not set
# CONFIG_DISCONTIGMEM_MANUAL is not set
CONFIG_SPARSEMEM_MANUAL=y
CONFIG_SPARSEMEM=y
CONFIG_HAVE_GET_USER_PAGES_FAST=y
CONFIG_HAVE_MEMORY_PRESENT=y
CONFIG_SPARSEMEM_STATIC=y
# CONFIG_SPARSEMEM_VMEMMAP_ENABLE is not set

#
# Memory hotplug is currently incompatible with Software Suspend
#
CONFIG_PAGEFLAGS_EXTENDED=y
CONFIG_SPLIT_PTLOCK_CPUS=4
# CONFIG_RESOURCES_64BIT is not set
CONFIG_ZONE_DMA_FLAG=1
CONFIG_BOUNCE=y
CONFIG_VIRT_TO_BUS=y
CONFIG_UNEVICTABLE_LRU=y
# CONFIG_MATH_EMULATION is not set
CONFIG_MTRR=y
CONFIG_MTRR_SANITIZER=y
CONFIG_MTRR_SANITIZER_ENABLE_DEFAULT=0
CONFIG_MTRR_SANITIZER_SPARE_REG_NR_DEFAULT=1
CONFIG_X86_PAT=y
# CONFIG_EFI is not set
CONFIG_SECCOMP=y
CONFIG_HZ_100=y
# CONFIG_HZ_250 is not set
```

Re: 2.6.27-rc1-mm1: rmmmod ide-cd_mod oops

```
# CONFIG_HZ_300 is not set
# CONFIG_HZ_1000 is not set
CONFIG_HZ=100
# CONFIG_SCHED_HRTICK is not set
# CONFIG_KEXEC is not set
CONFIG_PHYSICAL_START=0x100000
# CONFIG_RELOCATABLE is not set
CONFIG_PHYSICAL_ALIGN=0x100000
CONFIG_COMPAT_VDSO=y

#
# Power management options
#
CONFIG_PM=y
# CONFIG_PM_DEBUG is not set
CONFIG_PM_SLEEP=y
CONFIG_SUSPEND=y
CONFIG_SUSPEND_FREEZER=y
CONFIG_HIBERNATION=y
CONFIG_PM_STD_PARTITION="/dev/sda2"
CONFIG_ACPI=y
CONFIG_ACPI_SLEEP=y
# CONFIG_ACPI_PROCFS is not set
CONFIG_ACPI_PROCFS_POWER=y
CONFIG_ACPI_SYSFS_POWER=y
# CONFIG_ACPI_PROC_EVENT is not set
CONFIG_ACPI_AC=y
CONFIG_ACPI_BATTERY=y
CONFIG_ACPI_BUTTON=y
CONFIG_ACPI_FAN=y
# CONFIG_ACPI_DOCK is not set
CONFIG_ACPI_PROCESSOR=y
CONFIG_ACPI_THERMAL=y
# CONFIG_ACPI_WMI is not set
# CONFIG_ACPI_ASUS is not set
# CONFIG_ACPI_TOSHIBA is not set
# CONFIG_ACPI_CUSTOM_DSDT is not set
CONFIG_ACPI_BLACKLIST_YEAR=0
# CONFIG_ACPI_DEBUG is not set
CONFIG_ACPI_EC=y
CONFIG_ACPI_PCI_SLOT=y
CONFIG_ACPI_POWER=y
CONFIG_ACPI_SYSTEM=y
CONFIG_X86_PM_TIMER=y
# CONFIG_ACPI_CONTAINER is not set
# CONFIG_ACPI_SBS is not set
# CONFIG_APM is not set

#
# CPU Frequency scaling
#
```

```
# CONFIG_CPU_FREQ is not set
CONFIG_CPU_IDLE=y
CONFIG_CPU_IDLE_GOV_LADDER=y
CONFIG_CPU_IDLE_GOV_MENU=y

#
# Bus options (PCI etc.)
#
CONFIG_PCI=y
# CONFIG_PCI_GOBIOS is not set
# CONFIG_PCI_GOMMCONFIG is not set
# CONFIG_PCI_GODIRECT is not set
# CONFIG_PCI_GOOLPC is not set
CONFIG_PCI_GOANY=y
CONFIG_PCI_BIOS=y
CONFIG_PCI_DIRECT=y
CONFIG_PCI_MMCONFIG=y
CONFIG_PCI_DOMAINS=y
# CONFIG_PCIEPORTBUS is not set
CONFIG_ARCH_SUPPORTS_MSI=y
# CONFIG_PCI_MSI is not set
# CONFIG_PCI_LEGACY is not set
# CONFIG_PCI_DEBUG is not set
CONFIG_HT_IRQ=y
CONFIG_ISA_DMA_API=y
CONFIG_ISA=y
CONFIG_EISA=y
# CONFIG_EISA_VLB_PRIMING is not set
CONFIG_EISA_PCI_EISA=y
CONFIG_EISA_VIRTUAL_ROOT=y
CONFIG_EISA_NAMES=y
# CONFIG_MCA is not set
# CONFIG_SCx200 is not set
# CONFIG_OLPC is not set
CONFIG_PCCARD=y
# CONFIG_PCMCIA_DEBUG is not set
CONFIG_PCMCIA=m
CONFIG_PCMCIA_LOAD_CIS=y
CONFIG_PCMCIA_IOCTL=y
CONFIG_CARDBUS=y

#
# PC-card bridges
#
CONFIG_YENTA=m
CONFIG_YENTA_O2=y
CONFIG_YENTA_RICOH=y
CONFIG_YENTA_TI=y
CONFIG_YENTA_ENE_TUNE=y
CONFIG_YENTA_TOSHIBA=y
# CONFIG_PD6729 is not set
```

```
# CONFIG_I82092 is not set
# CONFIG_I82365 is not set
# CONFIG_TCIC is not set
CONFIG_PCMCIA_PROBE=y
CONFIG_PCCARD_NONSTATIC=m
# CONFIG_HOTPLUG_PCI is not set

#
# Executable file formats / Emulations
#
CONFIG_BINFMT_ELF=y
# CONFIG_BINFMT_AOUT is not set
# CONFIG_BINFMT_MISC is not set
CONFIG_NET=y

#
# Networking options
#
CONFIG_PACKET=y
# CONFIG_PACKET_MMAP is not set
CONFIG_UNIX=y
# CONFIG_NET_KEY is not set
CONFIG_INET=y
# CONFIG_IP_MULTICAST is not set
# CONFIG_IP_ADVANCED_ROUTER is not set
CONFIG_IP_FIB_HASH=y
# CONFIG_IP_PNP is not set
# CONFIG_NET_IPIP is not set
# CONFIG_NET_IPGRE is not set
# CONFIG_ARPD is not set
# CONFIG_SYN_COOKIES is not set
# CONFIG_INET_AH is not set
# CONFIG_INET_ESP is not set
# CONFIG_INET_IPCOMP is not set
# CONFIG_INET_XFRM_TUNNEL is not set
# CONFIG_INET_TUNNEL is not set
# CONFIG_INET_XFRM_MODE_TRANSPORT is not set
# CONFIG_INET_XFRM_MODE_TUNNEL is not set
# CONFIG_INET_XFRM_MODE_BEET is not set
# CONFIG_INET_LRO is not set
# CONFIG_INET_DIAG is not set
# CONFIG_TCP_CONG_ADVANCED is not set
CONFIG_TCP_CONG_CUBIC=y
CONFIG_DEFAULT_TCP_CONG="cubic"
# CONFIG_TCP_MD5SIG is not set
# CONFIG_IPV6 is not set
# CONFIG_NETWORK_SECMARK is not set
# CONFIG_NETFILTER is not set
# CONFIG_IP_DCCP is not set
# CONFIG_IP_SCTP is not set
# CONFIG_TIPC is not set
```

```
# CONFIG_ATM is not set
# CONFIG_BRIDGE is not set
# CONFIG_VLAN_8021Q is not set
# CONFIG_DECNET is not set
# CONFIG_LLC2 is not set
# CONFIG_IPX is not set
# CONFIG_ATALK is not set
# CONFIG_X25 is not set
# CONFIG_LAPB is not set
# CONFIG_ECONET is not set
# CONFIG_WAN_ROUTER is not set
# CONFIG_NET_SCHED is not set

#
# Network testing
#
CONFIG_NET_PKTGEN=m
# CONFIG_HAMRADIO is not set
# CONFIG_CAN is not set
# CONFIG_IRDA is not set
# CONFIG_BT is not set
# CONFIG_AF_RXRPC is not set

#
# Wireless
#
CONFIG_CFG80211=y
CONFIG_NL80211=y
CONFIG_WIRELESS_EXT=y
# CONFIG_WIRELESS_EXT_SYSFS is not set
CONFIG_MAC80211=m

#
# Rate control algorithm selection
#
CONFIG_MAC80211_RC_PID=y
CONFIG_MAC80211_RC_DEFAULT_PID=y
CONFIG_MAC80211_RC_DEFAULT="pid"
# CONFIG_MAC80211_MESH is not set
# CONFIG_MAC80211_LEDS is not set
# CONFIG_MAC80211_DEBUG_MENU is not set
# CONFIG_IEEE80211 is not set
# CONFIG_RFKILL is not set
# CONFIG_NET_9P is not set

#
# Device Drivers
#

#
# Generic Driver Options
```

```
#
CONFIG_UEVENT_HELPER_PATH="/sbin/hotplug"
CONFIG_STANDALONE=y
CONFIG_PREVENT_FIRMWARE_BUILD=y
CONFIG_FW_LOADER=y
# CONFIG_FIRMWARE_IN_KERNEL is not set
CONFIG_EXTRA_FIRMWARE=""
# CONFIG_DEBUG_DRIVER is not set
# CONFIG_DEBUG_DEVRES is not set
# CONFIG_SYS_HYPERVISOR is not set
# CONFIG_CONNECTOR is not set
# CONFIG_MTD is not set
CONFIG_PARPORT=m
CONFIG_PARPORT_PC=m
# CONFIG_PARPORT_PC_FIFO is not set
# CONFIG_PARPORT_PC_SUPERIO is not set
# CONFIG_PARPORT_PC_PCMCIA is not set
# CONFIG_PARPORT_GSC is not set
# CONFIG_PARPORT_AX88796 is not set
# CONFIG_PARPORT_1284 is not set
CONFIG_PNP=y
# CONFIG_PNP_DEBUG is not set

#
# Protocols
#
# CONFIG_ISAPNP is not set
# CONFIG_PNPBIOS is not set
CONFIG_PNPACPI=y
CONFIG_BLK_DEV=y
CONFIG_BLK_DEV_FD=m
# CONFIG_BLK_DEV_XD is not set
# CONFIG_PARIDE is not set
# CONFIG_BLK_CPQ_DA is not set
# CONFIG_BLK_CPQ_CISS_DA is not set
# CONFIG_BLK_DEV_DAC960 is not set
# CONFIG_BLK_DEV_UMEM is not set
# CONFIG_BLK_DEV_COW_COMMON is not set
# CONFIG_BLK_DEV_LOOP is not set
# CONFIG_BLK_DEV_NBD is not set
# CONFIG_BLK_DEV_SX8 is not set
# CONFIG_BLK_DEV_UB is not set
# CONFIG_BLK_DEV_RAM is not set
# CONFIG_CDROM_PKTCDVD is not set
# CONFIG_ATA_OVER_ETH is not set
# CONFIG_BLK_DEV_HD is not set
CONFIG_MISC_DEVICES=y
# CONFIG_IBM_ASM is not set
# CONFIG_PHANTOM is not set
# CONFIG_EEPROM_93CX6 is not set
# CONFIG_SGI_IOC4 is not set
```

```
CONFIG_TIFM_CORE=m
CONFIG_TIFM_7XX1=m
# CONFIG_FUJITSU_LAPTOP is not set
# CONFIG_TC1100_WMI is not set
# CONFIG_COMPAL_LAPTOP is not set
CONFIG_SONY_LAPTOP=m
CONFIG_SONYPI_COMPAT=y
# CONFIG_THINKPAD_ACPI is not set
# CONFIG_INTEL_MENLOW is not set
# CONFIG_ENCLOSURE_SERVICES is not set
# CONFIG_HP_ILO is not set
CONFIG_HAVE_IDE=y
CONFIG_IDE=y
CONFIG_BLK_DEV_IDE=y

#
# Please see Documentation/ide/ide.txt for help/info on IDE drives
#
CONFIG_IDE_TIMINGS=y
# CONFIG_BLK_DEV_IDE_SATA is not set
CONFIG_BLK_DEV_IDEDISK=y
# CONFIG_BLK_DEV_IDECS is not set
# CONFIG_BLK_DEV_DELKIN is not set
CONFIG_BLK_DEV_IDECD=m
CONFIG_BLK_DEV_IDECD_VERBOSE_ERRORS=y
# CONFIG_BLK_DEV_IDETAPE is not set
# CONFIG_BLK_DEV_IDEFLOPPY is not set
# CONFIG_BLK_DEV_IDEACPI is not set
# CONFIG_IDE_TASK_IOCTL is not set
# CONFIG_IDE_PROC_FS is not set

#
# IDE chipset support/bugfixes
#
# CONFIG_IDE_GENERIC is not set
# CONFIG_BLK_DEV_PLATFORM is not set
# CONFIG_BLK_DEV_CMD640 is not set
# CONFIG_BLK_DEV_IDEPNP is not set
CONFIG_BLK_DEV_IDEDMA_SFF=y

#
# PCI IDE chipsets support
#
CONFIG_BLK_DEV_IDEPCI=y
# CONFIG_IDEPCI_PCIBUS_ORDER is not set
# CONFIG_BLK_DEV_GENERIC is not set
# CONFIG_BLK_DEV_OPTI621 is not set
# CONFIG_BLK_DEV_RZ1000 is not set
CONFIG_BLK_DEV_IDEDMA_PCI=y
# CONFIG_BLK_DEV_AEC62XX is not set
CONFIG_BLK_DEV_ALI15X3=y
```

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```
# CONFIG_BLK_DEV_AMD74XX is not set
# CONFIG_BLK_DEV_ATIIXP is not set
# CONFIG_BLK_DEV_CMD64X is not set
# CONFIG_BLK_DEV_TRIFLEX is not set
# CONFIG_BLK_DEV_CS5520 is not set
# CONFIG_BLK_DEV_CS5530 is not set
# CONFIG_BLK_DEV_CS5535 is not set
# CONFIG_BLK_DEV_HPT366 is not set
# CONFIG_BLK_DEV_JMICRON is not set
# CONFIG_BLK_DEV_SC1200 is not set
# CONFIG_BLK_DEV_PIIIX is not set
# CONFIG_BLK_DEV_IT8213 is not set
# CONFIG_BLK_DEV_IT821X is not set
# CONFIG_BLK_DEV_NS87415 is not set
# CONFIG_BLK_DEV_PDC202XX_OLD is not set
# CONFIG_BLK_DEV_PDC202XX_NEW is not set
# CONFIG_BLK_DEV_SVWKS is not set
# CONFIG_BLK_DEV_SIIMAGE is not set
# CONFIG_BLK_DEV_SIS5513 is not set
# CONFIG_BLK_DEV_SLC90E66 is not set
# CONFIG_BLK_DEV_TRM290 is not set
# CONFIG_BLK_DEV_VIA82CXXX is not set
# CONFIG_BLK_DEV_TC86C001 is not set

#
# Other IDE chipsets support
#

#
# Note: most of these also require special kernel boot parameters
#
# CONFIG_BLK_DEV_4DRIVES is not set
# CONFIG_BLK_DEV_ALI14XX is not set
# CONFIG_BLK_DEV_DTC2278 is not set
# CONFIG_BLK_DEV_HT6560B is not set
# CONFIG_BLK_DEV_QD65XX is not set
# CONFIG_BLK_DEV_UMC8672 is not set
CONFIG_BLK_DEV_IDEDMA=y

#
# SCSI device support
#
# CONFIG_RAID_ATTRS is not set
# CONFIG_SCSI is not set
# CONFIG_SCSI_DMA is not set
# CONFIG_SCSI_NETLINK is not set
# CONFIG_ATA is not set
# CONFIG_MD is not set
# CONFIG_FUSION is not set

#
```

Re: 2.6.27-rc1-mm1: rmmmod ide-cd_mod oops

```
# IEEE 1394 (FireWire) support
#
#
# Enable only one of the two stacks, unless you know what you are doing
#
# CONFIG_FIREWIRE is not set
# CONFIG_IEEE1394 is not set
# CONFIG_I2O is not set
# CONFIG_MACINTOSH_DRIVERS is not set
CONFIG_NETDEVICES=y
CONFIG_DUMMY=m
# CONFIG_BONDING is not set
# CONFIG_MACVLAN is not set
# CONFIG_EQUALIZER is not set
# CONFIG_TUN is not set
# CONFIG_VETH is not set
# CONFIG_NET_SB1000 is not set
# CONFIG_ARCNET is not set
# CONFIG_PHYLIB is not set
CONFIG_NET_ETHERNET=y
CONFIG_MII=y
# CONFIG_HAPPYMEAL is not set
# CONFIG_SUNGEM is not set
# CONFIG_CASSINI is not set
# CONFIG_NET_VENDOR_3COM is not set
# CONFIG_LANCE is not set
# CONFIG_NET_VENDOR_SMC is not set
# CONFIG_NET_VENDOR_RACAL is not set
# CONFIG_NET_TULIP is not set
# CONFIG_AT1700 is not set
# CONFIG_DEPCA is not set
# CONFIG_HP100 is not set
# CONFIG_NET_ISA is not set
# CONFIG_IBM_NEW_EMAC_ZMII is not set
# CONFIG_IBM_NEW_EMAC_RGMII is not set
# CONFIG_IBM_NEW_EMAC_TAH is not set
# CONFIG_IBM_NEW_EMAC_EMAC4 is not set
CONFIG_NET_PCI=y
# CONFIG_PCNET32 is not set
# CONFIG_AMD8111_ETH is not set
# CONFIG_ADAPTEC_STARFIRE is not set
# CONFIG_AC3200 is not set
# CONFIG_APRICOT is not set
# CONFIG_B44 is not set
# CONFIG_FORCEDETH is not set
# CONFIG_CS89x0 is not set
# CONFIG_EEPRO100 is not set
# CONFIG_E100 is not set
# CONFIG_LNE390 is not set
# CONFIG_FEALNX is not set
```

```
# CONFIG_NATSEMI is not set
# CONFIG_NE2K_PCI is not set
# CONFIG_NE3210 is not set
# CONFIG_ES3210 is not set
# CONFIG_8139CP is not set
CONFIG_8139TOO=m
# CONFIG_8139TOO_PIO is not set
# CONFIG_8139TOO_TUNE_TWISTER is not set
# CONFIG_8139TOO_8129 is not set
# CONFIG_8139_OLD_RX_RESET is not set
# CONFIG_R6040 is not set
# CONFIG_SIS900 is not set
# CONFIG_EPIC100 is not set
# CONFIG_SUNDANCE is not set
# CONFIG_TLAN is not set
# CONFIG_VIA_RHINE is not set
# CONFIG_SC92031 is not set
# CONFIG_NET_POCKET is not set
# CONFIG_NETDEV_1000 is not set
# CONFIG_NETDEV_10000 is not set
# CONFIG_TR is not set

#
# Wireless LAN
#
# CONFIG_WLAN_PRE80211 is not set
CONFIG_WLAN_80211=y
# CONFIG_PCMCIA_RAYCS is not set
# CONFIG_IPW2100 is not set
# CONFIG_IPW2200 is not set
# CONFIG_LIBERTAS is not set
# CONFIG_AIRO is not set
CONFIG_HERMES=m
# CONFIG_PLX_HERMES is not set
# CONFIG_TMD_HERMES is not set
# CONFIG_NORTEL_HERMES is not set
# CONFIG_PCI_HERMES is not set
CONFIG_PCMCIA_HERMES=m
# CONFIG_PCMCIA_SPECTRUM is not set
# CONFIG_ATMEL is not set
# CONFIG_AIRO_CS is not set
# CONFIG_PCMCIA_WL3501 is not set
# CONFIG_PRISM54 is not set
# CONFIG_USB_ZD1201 is not set
# CONFIG_USB_NET_RNDIS_WLAN is not set
# CONFIG_RTL8180 is not set
# CONFIG_RTL8187 is not set
# CONFIG_ADM8211 is not set
# CONFIG_MAC80211_HWSIM is not set
# CONFIG_P54_COMMON is not set
# CONFIG_ATH5K is not set
```

```
# CONFIG_IWLCORE is not set
# CONFIG_IWLWIFI_LEDS is not set
# CONFIG_IWL4965 is not set
# CONFIG_IWL3945 is not set
# CONFIG_HOSTAP is not set
# CONFIG_B43 is not set
# CONFIG_B43LEGACY is not set
# CONFIG_ZD1211RW is not set
# CONFIG_RT2X00 is not set

#
# USB Network Adapters
#
# CONFIG_USB_CATC is not set
# CONFIG_USB_KAWETH is not set
# CONFIG_USB_PEGASUS is not set
# CONFIG_USB_RTL8150 is not set
# CONFIG_USB_USBNET is not set
# CONFIG_NET_PCMCIA is not set
# CONFIG_WAN is not set
# CONFIG_FDDI is not set
# CONFIG_HIPPI is not set
# CONFIG_PLIP is not set
# CONFIG_PPP is not set
# CONFIG_SLIP is not set
CONFIG_NETCONSOLE=y
# CONFIG_NETCONSOLE_DYNAMIC is not set
CONFIG_NETPOLL=y
# CONFIG_NETPOLL_TRAP is not set
CONFIG_NET_POLL_CONTROLLER=y
# CONFIG_ISDN is not set
# CONFIG_PHONE is not set

#
# Input device support
#
CONFIG_INPUT=y
# CONFIG_INPUT_FF_MEMLESS is not set
# CONFIG_INPUT_POLLDEV is not set

#
# Userland interfaces
#
CONFIG_INPUT_MOUSEDEV=y
CONFIG_INPUT_MOUSEDEV_PSAUX=y
CONFIG_INPUT_MOUSEDEV_SCREEN_X=1024
CONFIG_INPUT_MOUSEDEV_SCREEN_Y=768
# CONFIG_INPUT_JOYDEV is not set
# CONFIG_INPUT_EVDEV is not set
# CONFIG_INPUT_EVBUG is not set
```

```
#
# Input Device Drivers
#
CONFIG_INPUT_KEYBOARD=y
CONFIG_KEYBOARD_ATKBD=y
# CONFIG_KEYBOARD_SUNKBD is not set
# CONFIG_KEYBOARD_LKKBD is not set
# CONFIG_KEYBOARD_XTKBD is not set
# CONFIG_KEYBOARD_NEWTON is not set
# CONFIG_KEYBOARD_STOWAWAY is not set
CONFIG_INPUT_MOUSE=y
CONFIG_MOUSE_PS2=m
CONFIG_MOUSE_PS2_ALPS=y
CONFIG_MOUSE_PS2_LOGIPS2PP=y
CONFIG_MOUSE_PS2_SYNAPTICS=y
CONFIG_MOUSE_PS2_LIFEBOOK=y
CONFIG_MOUSE_PS2_TRACKPOINT=y
# CONFIG_MOUSE_PS2_TOUCHKIT is not set
# CONFIG_MOUSE_PS2_ELANTECH is not set
# CONFIG_MOUSE_SERIAL is not set
# CONFIG_MOUSE_APPLETOUCH is not set
# CONFIG_MOUSE_BCM5974 is not set
# CONFIG_MOUSE_INPORT is not set
# CONFIG_MOUSE_LOGIBM is not set
# CONFIG_MOUSE_PC110PAD is not set
# CONFIG_MOUSE_VSXXXAA is not set
# CONFIG_INPUT_JOYSTICK is not set
# CONFIG_INPUT_TABLET is not set
# CONFIG_INPUT_TOUCHSCREEN is not set
CONFIG_INPUT_MISC=y
CONFIG_INPUT_PCSPKR=m
# CONFIG_INPUT_WISTRON_BTNS is not set
# CONFIG_INPUT_ATLAS_BTNS is not set
# CONFIG_INPUT_ATI_REMOTE is not set
# CONFIG_INPUT_ATI_REMOTE2 is not set
# CONFIG_INPUT_KEYSPAN_REMOTE is not set
# CONFIG_INPUT_POWERMATE is not set
# CONFIG_INPUT_YEALINK is not set
# CONFIG_INPUT_UINPUT is not set

#
# Hardware I/O ports
#
CONFIG_SERIO=y
CONFIG_SERIO_I8042=y
# CONFIG_SERIO_SERPORT is not set
# CONFIG_SERIO_CT82C710 is not set
# CONFIG_SERIO_PARKBD is not set
# CONFIG_SERIO_PCIPS2 is not set
CONFIG_SERIO_LIBPS2=y
# CONFIG_SERIO_RAW is not set
```

```
# CONFIG_GAMEPORT is not set

#
# Character devices
#
CONFIG_VT=y
CONFIG_CONSOLE_TRANSLATIONS=y
CONFIG_VT_CONSOLE=y
CONFIG_HW_CONSOLE=y
# CONFIG_VT_HW_CONSOLE_BINDING is not set
# CONFIG_DEVKMEM is not set
# CONFIG_SERIAL_NONSTANDARD is not set
# CONFIG_NOZOMI is not set

#
# Serial drivers
#
# CONFIG_SERIAL_8250 is not set
CONFIG_FIX_EARLYCON_MEM=y

#
# Non-8250 serial port support
#
# CONFIG_SERIAL_JSM is not set
CONFIG_UNIX98_PTYS=y
# CONFIG_LEGACY_PTYS is not set
# CONFIG_PRINTER is not set
# CONFIG_PPDEV is not set
# CONFIG_IPMI_HANDLER is not set
# CONFIG_HW_RANDOM is not set
# CONFIG_NVRAM is not set
CONFIG_RTC=m
# CONFIG_GEN_RTC is not set
# CONFIG_DTLK is not set
# CONFIG_R3964 is not set
# CONFIG_APPLICOM is not set
CONFIG_SONYPI=m

#
# PCMCIA character devices
#
# CONFIG_SYNCLINK_CS is not set
# CONFIG_CARDMAN_4000 is not set
# CONFIG_CARDMAN_4040 is not set
# CONFIG_IPWIRELESS is not set
# CONFIG_MWAVE is not set
# CONFIG_PC8736x_GPIO is not set
# CONFIG_NSC_GPIO is not set
# CONFIG_CS5535_GPIO is not set
# CONFIG_RAW_DRIVER is not set
# CONFIG_HPET is not set
```

```
# CONFIG_HANGCHECK_TIMER is not set
# CONFIG_TCG_TPM is not set
# CONFIG_TELCLOCK is not set
CONFIG_DEVPOR=y
# CONFIG_I2C is not set
# CONFIG_SPI is not set
CONFIG_ARCH_WANT_OPTIONAL_GPIOLIB=y
# CONFIG_GPIOLIB is not set
# CONFIG_W1 is not set
CONFIG_POWER_SUPPLY=y
# CONFIG_POWER_SUPPLY_DEBUG is not set
# CONFIG_PDA_POWER is not set
# CONFIG_BATTERY_DS2760 is not set
# CONFIG_HWMON is not set
CONFIG_THERMAL=y
# CONFIG_WATCHDOG is not set

#
# Sonics Silicon Backplane
#
CONFIG_SSB_POSSIBLE=y
# CONFIG_SSB is not set

#
# Multifunction device drivers
#
# CONFIG_MFD_CORE is not set
# CONFIG_MFD_SM501 is not set
# CONFIG_HTC_PASIC3 is not set

#
# Multimedia devices
#

#
# Multimedia core support
#
# CONFIG_VIDEO_DEV is not set
# CONFIG_DVB_CORE is not set
# CONFIG_VIDEO_MEDIA is not set

#
# Multimedia drivers
#
# CONFIG_DAB is not set

#
# Graphics support
#
CONFIG_AGP=m
# CONFIG_AGP_ALI is not set
```

```
CONFIG_AGP_ATI=m
# CONFIG_AGP_AMD is not set
# CONFIG_AGP_AMD64 is not set
# CONFIG_AGP_INTEL is not set
# CONFIG_AGP_NVIDIA is not set
# CONFIG_AGP_SIS is not set
# CONFIG_AGP_SWORKS is not set
# CONFIG_AGP_VIA is not set
# CONFIG_AGP_EFFICEON is not set
CONFIG_DRM=m
# CONFIG_DRM_TDFX is not set
# CONFIG_DRM_R128 is not set
CONFIG_DRM_RADEON=m
# CONFIG_DRM_MGA is not set
# CONFIG_DRM_SIS is not set
# CONFIG_DRM_VIA is not set
# CONFIG_DRM_SAVAGE is not set
# CONFIG_VGASTATE is not set
# CONFIG_VIDEO_OUTPUT_CONTROL is not set
CONFIG_FB=y
# CONFIG_FIRMWARE_EDID is not set
# CONFIG_FB_DDC is not set
CONFIG_FB_CFB_FILLRECT=y
CONFIG_FB_CFB_COPYAREA=y
CONFIG_FB_CFB_IMAGEBLIT=y
# CONFIG_FB_CFB_REV_PIXELS_IN_BYTE is not set
# CONFIG_FB_SYS_FILLRECT is not set
# CONFIG_FB_SYS_COPYAREA is not set
# CONFIG_FB_SYS_IMAGEBLIT is not set
CONFIG_FB_FOREIGN_ENDIAN=y
CONFIG_FB_BOTH_ENDIAN=y
# CONFIG_FB_BIG_ENDIAN is not set
# CONFIG_FB_LITTLE_ENDIAN is not set
# CONFIG_FB_SYS_FOPS is not set
# CONFIG_FB_SVGALIB is not set
# CONFIG_FB_MACMODES is not set
# CONFIG_FB_BACKLIGHT is not set
# CONFIG_FB_MODE_HELPERS is not set
# CONFIG_FB_TILEBLITTING is not set

#
# Frame buffer hardware drivers
#
# CONFIG_FB_CIRRUS is not set
# CONFIG_FB_PM2 is not set
# CONFIG_FB_CYBER2000 is not set
# CONFIG_FB_ARC is not set
# CONFIG_FB_ASILANT is not set
# CONFIG_FB_IMSTT is not set
# CONFIG_FB_VGA16 is not set
CONFIG_FB_VESA=y
```

```
# CONFIG_FB_EFI is not set
# CONFIG_FB_N411 is not set
# CONFIG_FB_HGA is not set
# CONFIG_FB_S1D13XXX is not set
# CONFIG_FB_NVIDIA is not set
# CONFIG_FB_RIVA is not set
# CONFIG_FB_I810 is not set
# CONFIG_FB_LE80578 is not set
# CONFIG_FB_INTEL is not set
# CONFIG_FB_MATROX is not set
# CONFIG_FB_RADEON is not set
# CONFIG_FB_ATY128 is not set
# CONFIG_FB_ATY is not set
# CONFIG_FB_S3 is not set
# CONFIG_FB_SAVAGE is not set
# CONFIG_FB_SIS is not set
# CONFIG_FB_NEOMAGIC is not set
# CONFIG_FB_KYRO is not set
# CONFIG_FB_3DFX is not set
# CONFIG_FB_VOODOO1 is not set
# CONFIG_FB_VT8623 is not set
# CONFIG_FB_CYBLA is not set
# CONFIG_FB_TRIDENT is not set
# CONFIG_FB_ARK is not set
# CONFIG_FB_PM3 is not set
# CONFIG_FB_CARMINE is not set
# CONFIG_FB_GEODE is not set
# CONFIG_FB_VIRTUAL is not set
# CONFIG_BACKLIGHT_LCD_SUPPORT is not set
CONFIG_BACKLIGHT_CLASS_DEVICE=m
# CONFIG_BACKLIGHT_CORGI is not set
# CONFIG_BACKLIGHT_PROGEAR is not set
# CONFIG_BACKLIGHT_MBP_NVIDIA is not set

#
# Display device support
#
# CONFIG_DISPLAY_SUPPORT is not set

#
# Console display driver support
#
CONFIG_VGA_CONSOLE=y
CONFIG_VGACON_SOFT_SCROLLBACK=y
CONFIG_VGACON_SOFT_SCROLLBACK_SIZE=64
CONFIG_VIDEO_SELECT=y
# CONFIG_MDA_CONSOLE is not set
CONFIG_DUMMY_CONSOLE=y
CONFIG_FRAMEBUFFER_CONSOLE=y
# CONFIG_FRAMEBUFFER_CONSOLE_DETECT_PRIMARY is not set
# CONFIG_FRAMEBUFFER_CONSOLE_ROTATION is not set
```

```
# CONFIG_FONTS is not set
CONFIG_FONT_8x8=y
CONFIG_FONT_8x16=y
CONFIG_LOGO=y
# CONFIG_LOGO_LINUX_MONO is not set
# CONFIG_LOGO_LINUX_VGA16 is not set
CONFIG_LOGO_LINUX_CLUT224=y
CONFIG_SOUND=m
CONFIG_SND=m
CONFIG_SND_TIMER=m
CONFIG_SND_PCM=m
CONFIG_SND_RAWMIDI=m
CONFIG_SND_SEQUENCER=m
# CONFIG_SND_SEQ_DUMMY is not set
CONFIG_SND_OSSEMUL=y
CONFIG_SND_MIXER_OSS=m
CONFIG_SND_PCM_OSS=m
CONFIG_SND_PCM_OSS_PLUGINS=y
CONFIG_SND_SEQUENCER_OSS=y
# CONFIG_SND_RTCTIMER is not set
# CONFIG_SND_DYNAMIC_MINORS is not set
# CONFIG_SND_SUPPORT_OLD_API is not set
# CONFIG_SND_VERBOSE_PROCFS is not set
# CONFIG_SND_VERBOSE_PRINTK is not set
# CONFIG_SND_DEBUG is not set
CONFIG_SND_VMASTER=y
CONFIG_SND_MPU401_UART=m
CONFIG_SND_AC97_CODEC=m
CONFIG_SND_DRIVERS=y
# CONFIG_SND_PCSP is not set
# CONFIG_SND_DUMMY is not set
# CONFIG_SND_VIRMIDI is not set
# CONFIG_SND_MTPAV is not set
# CONFIG_SND_MTS64 is not set
# CONFIG_SND_SERIAL_U16550 is not set
# CONFIG_SND_MPU401 is not set
# CONFIG_SND_PORTMAN2X4 is not set
CONFIG_SND_AC97_POWER_SAVE=y
CONFIG_SND_AC97_POWER_SAVE_DEFAULT=0
# CONFIG_SND_ISA is not set
CONFIG_SND_PCI=y
# CONFIG_SND_AD1889 is not set
# CONFIG_SND_ALS300 is not set
# CONFIG_SND_ALS4000 is not set
CONFIG_SND_ALI5451=m
# CONFIG_SND_ATIIXP is not set
# CONFIG_SND_ATIIXP_MODEM is not set
# CONFIG_SND_AU8810 is not set
# CONFIG_SND_AU8820 is not set
# CONFIG_SND_AU8830 is not set
# CONFIG_SND_AW2 is not set
```

```
# CONFIG_SND_AZT3328 is not set
# CONFIG_SND_BT87X is not set
# CONFIG_SND_CA0106 is not set
# CONFIG_SND_CMIPCI is not set
# CONFIG_SND_OXYGEN is not set
# CONFIG_SND_CS4281 is not set
# CONFIG_SND_CS46XX is not set
# CONFIG_SND_CS5530 is not set
# CONFIG_SND_CS5535AUDIO is not set
# CONFIG_SND_DARLA20 is not set
# CONFIG_SND_GINA20 is not set
# CONFIG_SND_LAYLA20 is not set
# CONFIG_SND_DARLA24 is not set
# CONFIG_SND_GINA24 is not set
# CONFIG_SND_LAYLA24 is not set
# CONFIG_SND_MONA is not set
# CONFIG_SND_MIA is not set
# CONFIG_SND_ECHO3G is not set
# CONFIG_SND_INDIGO is not set
# CONFIG_SND_INDIGOIO is not set
# CONFIG_SND_INDIGODJ is not set
# CONFIG_SND_EMU10K1 is not set
# CONFIG_SND_EMU10K1X is not set
# CONFIG_SND_ENS1370 is not set
# CONFIG_SND_ENS1371 is not set
# CONFIG_SND_ES1938 is not set
# CONFIG_SND_ES1968 is not set
# CONFIG_SND_FM801 is not set
# CONFIG_SND_HDA_INTEL is not set
# CONFIG_SND_HDSP is not set
# CONFIG_SND_HDSPM is not set
# CONFIG_SND_HIFIEM is not set
# CONFIG_SND_HIFIER is not set
# CONFIG_SND_ICE1712 is not set
# CONFIG_SND_ICE1724 is not set
# CONFIG_SND_INTEL8X0 is not set
# CONFIG_SND_INTEL8X0M is not set
# CONFIG_SND_KORG1212 is not set
# CONFIG_SND_MAESTRO3 is not set
# CONFIG_SND_MIXART is not set
# CONFIG_SND_NM256 is not set
# CONFIG_SND_PCXHR is not set
# CONFIG_SND_RIPTIDE is not set
# CONFIG_SND_RME32 is not set
# CONFIG_SND_RME96 is not set
# CONFIG_SND_RME9652 is not set
# CONFIG_SND_SIS7019 is not set
# CONFIG_SND_SONICVIBES is not set
# CONFIG_SND_TRIDENT is not set
# CONFIG_SND_VIA82XX is not set
# CONFIG_SND_VIA82XX_MODEM is not set
# CONFIG_SND_VIRTUOSO is not set
```

```
# CONFIG_SND_VX222 is not set
# CONFIG_SND_YMFPCI is not set
# CONFIG_SND_USB is not set
# CONFIG_SND_PCMCIA is not set
# CONFIG_SND_SOC is not set
# CONFIG_SOUND_PRIME is not set
CONFIG_AC97_BUS=m
CONFIG_HID_SUPPORT=y
CONFIG_HID=m
# CONFIG_HID_DEBUG is not set
# CONFIG_HIDRAW is not set

#
# USB Input Devices
#
CONFIG_USB_HID=m
# CONFIG_USB_HIDINPUT_POWERBOOK is not set
# CONFIG_HID_FF is not set
# CONFIG_USB_HIDDEV is not set

#
# USB HID Boot Protocol drivers
#
# CONFIG_USB_KBD is not set
# CONFIG_USB_MOUSE is not set
CONFIG_USB_SUPPORT=y
CONFIG_USB_ARCH_HAS_HCD=y
CONFIG_USB_ARCH_HAS_OHCI=y
CONFIG_USB_ARCH_HAS_EHCI=y
CONFIG_USB=m
# CONFIG_USB_DEBUG is not set
# CONFIG_USB_ANNOUNCE_NEW_DEVICES is not set

#
# Miscellaneous USB options
#
CONFIG_USB_DEVICEFS=y
# CONFIG_USB_DEVICE_CLASS is not set
# CONFIG_USB_DYNAMIC_MINORS is not set
# CONFIG_USB_SUSPEND is not set
# CONFIG_USB_OTG is not set
# CONFIG_USB_MON is not set

#
# USB Host Controller Drivers
#
# CONFIG_USB_C67X00_HCD is not set
CONFIG_USB_EHCI_HCD=m
CONFIG_USB_EHCI_ROOT_HUB_TT=y
# CONFIG_USB_EHCI_TT_NEWSCHED is not set
# CONFIG_USB_ISP116X_HCD is not set
```

```
# CONFIG_USB_ISP1760_HCD is not set
# CONFIG_USB_OHCI_HCD is not set
CONFIG_USB_UHCI_HCD=m
# CONFIG_USB_SL811_HCD is not set
# CONFIG_USB_R8A66597_HCD is not set

#
# USB Device Class drivers
#
# CONFIG_USB_ACM is not set
CONFIG_USB_PRINTER=m
# CONFIG_USB_WDM is not set

#
# NOTE: USB_STORAGE enables SCSI, and 'SCSI disk support'
#

#
# may also be needed; see USB_STORAGE Help for more information
#
CONFIG_USB_LIBUSUAL=y

#
# USB Imaging devices
#
# CONFIG_USB_MDC800 is not set

#
# USB port drivers
#
# CONFIG_USB_USS720 is not set
CONFIG_USB_SERIAL=m
CONFIG_USB_EZUSB=y
# CONFIG_USB_SERIAL_GENERIC is not set
CONFIG_USB_SERIAL_AIRCABLE=m
CONFIG_USB_SERIAL_ARK3116=m
CONFIG_USB_SERIAL_BELKIN=m
# CONFIG_USB_SERIAL_CH341 is not set
CONFIG_USB_SERIAL_WHITEHEAT=m
CONFIG_USB_SERIAL_DIGI_ACCELEPORT=m
CONFIG_USB_SERIAL_CP2101=m
CONFIG_USB_SERIAL_CYPRESS_M8=m
CONFIG_USB_SERIAL_EMPEG=m
CONFIG_USB_SERIAL_FTDI_SIO=m
CONFIG_USB_SERIAL_FUNSOFT=m
CONFIG_USB_SERIAL_VISOR=m
CONFIG_USB_SERIAL_IPAQ=m
CONFIG_USB_SERIAL_IR=m
CONFIG_USB_SERIAL_EDGEPORT=m
CONFIG_USB_SERIAL_EDGEPORT_TI=m
CONFIG_USB_SERIAL_GARMIN=m
```

```
CONFIG_USB_SERIAL_IPW=m
# CONFIG_USB_SERIAL_IUU is not set
CONFIG_USB_SERIAL_KEYSPAN_PDA=m
CONFIG_USB_SERIAL_KEYSPAN=m
CONFIG_USB_SERIAL_KLSI=m
CONFIG_USB_SERIAL_KOBIL_SCT=m
CONFIG_USB_SERIAL_MCT_U232=m
CONFIG_USB_SERIAL_MOS7720=m
CONFIG_USB_SERIAL_MOS7840=m
# CONFIG_USB_SERIAL_MOTOROLA is not set
CONFIG_USB_SERIAL_NAVMAN=m
CONFIG_USB_SERIAL_PL2303=m
# CONFIG_USB_SERIAL_OTI6858 is not set
# CONFIG_USB_SERIAL_SPCP8X5 is not set
CONFIG_USB_SERIAL_HP4X=m
CONFIG_USB_SERIAL_SAFE=m
# CONFIG_USB_SERIAL_SAFE_PADDED is not set
CONFIG_USB_SERIAL_SIERRAWIRELESS=m
CONFIG_USB_SERIAL_TI=m
CONFIG_USB_SERIAL_CYBERJACK=m
CONFIG_USB_SERIAL_XIRCOM=m
CONFIG_USB_SERIAL_OPTION=m
CONFIG_USB_SERIAL_OMNINET=m
CONFIG_USB_SERIAL_DEBUG=m
```

```
#
# USB Miscellaneous drivers
#
# CONFIG_USB_EMI62 is not set
# CONFIG_USB_EMI26 is not set
# CONFIG_USB_ADUTUX is not set
# CONFIG_USB_AUERSWALD is not set
# CONFIG_USB_RIO500 is not set
# CONFIG_USB_LEGOTOWER is not set
# CONFIG_USB_LCD is not set
# CONFIG_USB_BERRY_CHARGE is not set
# CONFIG_USB_LED is not set
# CONFIG_USB_CYPRESS_CY7C63 is not set
# CONFIG_USB_CYTHERM is not set
# CONFIG_USB_PHIDGET is not set
# CONFIG_USB_IDMOUSE is not set
# CONFIG_USB_FTDI_ELAN is not set
# CONFIG_USB_APPLEDISPLAY is not set
# CONFIG_USB_SISUSBVGA is not set
# CONFIG_USB_LD is not set
# CONFIG_USB_TRANCEVIBRATOR is not set
# CONFIG_USB_IOWARRIOR is not set
# CONFIG_USB_TEST is not set
# CONFIG_USB_ISIGHTFW is not set
# CONFIG_USB_GOTEMP is not set
# CONFIG_USB_GADGET is not set
```

```
CONFIG_MMC=m
CONFIG_MMC_DEBUG=y
# CONFIG_MMC_UNSAFE_RESUME is not set
```

```
#
# MMC/SD Card Drivers
#
CONFIG_MMC_BLOCK=m
CONFIG_MMC_BLOCK_BOUNCE=y
CONFIG_SDIO_UART=m
# CONFIG_MMC_TEST is not set
```

```
#
# MMC/SD Host Controller Drivers
#
CONFIG_MMC_SDHCI=m
# CONFIG_MMC_SDHCI_PCI is not set
CONFIG_MMC_WBSD=m
CONFIG_MMC_TIFM_SD=m
# CONFIG_MMC_SDRICOH_CS is not set
# CONFIG_MEMSTICK is not set
# CONFIG_NEW_LEDS is not set
# CONFIG_ACCESSIBILITY is not set
# CONFIG_INFINIBAND is not set
# CONFIG_EDAC is not set
# CONFIG_RTC_CLASS is not set
# CONFIG_DMADEVICES is not set
# CONFIG_AUXDISPLAY is not set
# CONFIG_UIO is not set
```

```
#
# Firmware Drivers
#
# CONFIG_EDD is not set
CONFIG_FIRMWARE_MEMMAP=y
# CONFIG_DELL_RBU is not set
# CONFIG_DCDBAS is not set
# CONFIG_DMIID is not set
# CONFIG_ISCSI_IBFT_FIND is not set
```

```
#
# File systems
#
CONFIG_EXT2_FS=y
# CONFIG_EXT2_FS_XATTR is not set
# CONFIG_EXT2_FS_XIP is not set
CONFIG_EXT3_FS=y
# CONFIG_EXT3_FS_XATTR is not set
# CONFIG_EXT4DEV_FS is not set
CONFIG_JBD=y
# CONFIG_REISER4_FS is not set
```

```
# CONFIG_REISERFS_FS is not set
# CONFIG_JFS_FS is not set
# CONFIG_FS_POSIX_ACL is not set
# CONFIG_XFS_FS is not set
# CONFIG_OCFS2_FS is not set
CONFIG_DNOTIFY=y
CONFIG_INOTIFY=y
CONFIG_INOTIFY_USER=y
# CONFIG_QUOTA is not set
# CONFIG_AUTOFS_FS is not set
# CONFIG_AUTOFS4_FS is not set
# CONFIG_FUSE_FS is not set

#
# CD-ROM/DVD Filesystems
#
CONFIG_ISO9660_FS=m
CONFIG_JOLIET=y
# CONFIG_ZISOFS is not set
# CONFIG_UDF_FS is not set

#
# DOS/FAT/NT Filesystems
#
CONFIG_FAT_FS=m
CONFIG_MSDOS_FS=m
# CONFIG_VFAT_FS is not set
CONFIG_FAT_DEFAULT_CODEPAGE=1250
# CONFIG_NTFS_FS is not set

#
# Pseudo filesystems
#
CONFIG_PROC_FS=y
CONFIG_PROC_KCORE=y
CONFIG_PROC_SYSCTL=y
CONFIG_SYSFS=y
CONFIG_TMPFS=y
# CONFIG_TMPFS_POSIX_ACL is not set
# CONFIG_HUGETLBFS is not set
# CONFIG_HUGETLB_PAGE is not set
CONFIG_CONFIGFS_FS=m

#
# Layered filesystems
#
# CONFIG_UNION_FS is not set

#
# Miscellaneous filesystems
#
```

```
# CONFIG_ADFS_FS is not set
# CONFIG_AFFS_FS is not set
# CONFIG_HFS_FS is not set
# CONFIG_HFSPLUS_FS is not set
# CONFIG_BEFS_FS is not set
# CONFIG_BFS_FS is not set
# CONFIG_EFS_FS is not set
# CONFIG_LOGFS is not set
# CONFIG_CRAMFS is not set
# CONFIG_VXFS_FS is not set
# CONFIG_MINIX_FS is not set
# CONFIG_OMFS_FS is not set
# CONFIG_HPFS_FS is not set
# CONFIG_QNX4FS_FS is not set
# CONFIG_ROMFS_FS is not set
# CONFIG_SYSV_FS is not set
# CONFIG_UFS_FS is not set
CONFIG_NETWORK_FILESYSTEMS=y
CONFIG_NFS_FS=m
CONFIG_NFS_V3=y
# CONFIG_NFS_V3_ACL is not set
# CONFIG_NFS_V4 is not set
CONFIG_NFSD=m
CONFIG_NFSD_V3=y
# CONFIG_NFSD_V3_ACL is not set
# CONFIG_NFSD_V4 is not set
CONFIG_LOCKD=m
CONFIG_LOCKD_V4=y
CONFIG_EXPORTFS=m
CONFIG_NFS_COMMON=y
CONFIG_SUNRPC=m
# CONFIG_RPCSEC_GSS_KRB5 is not set
# CONFIG_RPCSEC_GSS_SPKM3 is not set
CONFIG_SMB_FS=m
CONFIG_SMB_NLS_DEFAULT=y
CONFIG_SMB_NLS_REMOTE="cp1250"
# CONFIG_CIFS is not set
# CONFIG_NCP_FS is not set
# CONFIG_CODA_FS is not set
# CONFIG_AFS_FS is not set

#
# Partition Types
#
# CONFIG_PARTITION_ADVANCED is not set
CONFIG_MSDOS_PARTITION=y
CONFIG_NLS=y
CONFIG_NLS_DEFAULT="iso8859-2"
CONFIG_NLS_CODEPAGE_437=m
# CONFIG_NLS_CODEPAGE_737 is not set
# CONFIG_NLS_CODEPAGE_775 is not set
```

```
# CONFIG_NLS_CODEPAGE_850 is not set
CONFIG_NLS_CODEPAGE_852=m
# CONFIG_NLS_CODEPAGE_855 is not set
# CONFIG_NLS_CODEPAGE_857 is not set
# CONFIG_NLS_CODEPAGE_860 is not set
# CONFIG_NLS_CODEPAGE_861 is not set
# CONFIG_NLS_CODEPAGE_862 is not set
# CONFIG_NLS_CODEPAGE_863 is not set
# CONFIG_NLS_CODEPAGE_864 is not set
# CONFIG_NLS_CODEPAGE_865 is not set
# CONFIG_NLS_CODEPAGE_866 is not set
# CONFIG_NLS_CODEPAGE_869 is not set
# CONFIG_NLS_CODEPAGE_936 is not set
# CONFIG_NLS_CODEPAGE_950 is not set
# CONFIG_NLS_CODEPAGE_932 is not set
# CONFIG_NLS_CODEPAGE_949 is not set
# CONFIG_NLS_CODEPAGE_874 is not set
# CONFIG_NLS_ISO8859_8 is not set
CONFIG_NLS_CODEPAGE_1250=m
# CONFIG_NLS_CODEPAGE_1251 is not set
# CONFIG_NLS_ASCII is not set
CONFIG_NLS_ISO8859_1=m
CONFIG_NLS_ISO8859_2=m
# CONFIG_NLS_ISO8859_3 is not set
# CONFIG_NLS_ISO8859_4 is not set
# CONFIG_NLS_ISO8859_5 is not set
# CONFIG_NLS_ISO8859_6 is not set
# CONFIG_NLS_ISO8859_7 is not set
# CONFIG_NLS_ISO8859_9 is not set
# CONFIG_NLS_ISO8859_13 is not set
# CONFIG_NLS_ISO8859_14 is not set
# CONFIG_NLS_ISO8859_15 is not set
# CONFIG_NLS_KOI8_R is not set
# CONFIG_NLS_KOI8_U is not set
CONFIG_NLS_UTF8=m
# CONFIG_DLM is not set

#
# Kernel hacking
#
CONFIG_TRACE_IRQFLAGS_SUPPORT=y
# CONFIG_PRINTK_TIME is not set
# CONFIG_ENABLE_WARN_DEPRECATED is not set
# CONFIG_ENABLE_MUST_CHECK is not set
CONFIG_FRAME_WARN=1024
CONFIG_MAGIC_SYSRQ=y
# CONFIG_UNUSED_SYMBOLS is not set
# CONFIG_PAGE_OWNER is not set
# CONFIG_DEBUG_FS is not set
# CONFIG_HEADERS_CHECK is not set
CONFIG_DEBUG_KERNEL=y
```

```
CONFIG_DEBUG_SHIRQ=y
CONFIG_DETECT_SOFTLOCKUP=y
# CONFIG_BOOTPARAM_SOFTLOCKUP_PANIC is not set
CONFIG_BOOTPARAM_SOFTLOCKUP_PANIC_VALUE=0
CONFIG_SCHED_DEBUG=y
# CONFIG_SCHEDSTATS is not set
# CONFIG_TIMER_STATS is not set
# CONFIG_DEBUG_OBJECTS is not set
# CONFIG_SLUB_DEBUG_ON is not set
# CONFIG_SLUB_STATS is not set
CONFIG_DEBUG_PREEMPT=y
CONFIG_DEBUG_RT_MUTEXES=y
CONFIG_DEBUG_PI_LIST=y
CONFIG_DEBUG_SPINLOCK=y
CONFIG_DEBUG_MUTEXES=y
CONFIG_DEBUG_LOCK_ALLOC=y
CONFIG_PROVE_LOCKING=y
CONFIG_LOCKDEP=y
# CONFIG_LOCK_STAT is not set
# CONFIG_DEBUG_LOCKDEP is not set
CONFIG_TRACE_IRQFLAGS=y
CONFIG_DEBUG_SPINLOCK_SLEEP=y
CONFIG_STACKTRACE=y
# CONFIG_DEBUG_KOBJECT is not set
CONFIG_DEBUG_BUGVERBOSE=y
CONFIG_DEBUG_INFO=y
# CONFIG_DEBUG_VM is not set
# CONFIG_DEBUG_WRITECOUNT is not set
CONFIG_DEBUG_MEMORY_INIT=y
# CONFIG_DEBUG_LIST is not set
# CONFIG_DEBUG_SG is not set
CONFIG_FRAME_POINTER=y
# CONFIG_DEBUG_SYNCHRO_TEST is not set
# CONFIG_PROFILE_LIKELY is not set
# CONFIG_BOOT_PRINTK_DELAY is not set
# CONFIG_FAULT_INJECTION is not set
# CONFIG_LATENCYTOP is not set
CONFIG_HAVE_FTRACE=y
CONFIG_HAVE_DYNAMIC_FTRACE=y
# CONFIG_FTRACE is not set
# CONFIG_IRQSOFF_TRACER is not set
# CONFIG_PREEMPT_TRACER is not set
# CONFIG_SYSPROF_TRACER is not set
# CONFIG_SCHED_TRACER is not set
# CONFIG_CONTEXT_SWITCH_TRACER is not set
# CONFIG_PROVIDE_OHCI1394_DMA_INIT is not set
# CONFIG_SAMPLES is not set
CONFIG_HAVE_ARCH_KGDB=y
# CONFIG_KGDB is not set
# CONFIG_KERNEL_TESTS is not set
# CONFIG_STRICT_DEVMEM is not set
```

```
CONFIG_X86_VERBOSE_BOOTUP=y
CONFIG_EARLY_PRINTK=y
# CONFIG_DEBUG_STACKOVERFLOW is not set
# CONFIG_DEBUG_STACK_USAGE is not set
# CONFIG_DEBUG_PAGEALLOC is not set
# CONFIG_X86_PTDUMP is not set
# CONFIG_DEBUG_RODATA is not set
# CONFIG_DEBUG_NX_TEST is not set
CONFIG_4KSTACKS=y
CONFIG_DOUBLEFAULT=y
# CONFIG_MMIOTRACE is not set
CONFIG_IO_DELAY_TYPE_0X80=0
CONFIG_IO_DELAY_TYPE_0XED=1
CONFIG_IO_DELAY_TYPE_UDELAY=2
CONFIG_IO_DELAY_TYPE_NONE=3
# CONFIG_IO_DELAY_0X80 is not set
CONFIG_IO_DELAY_0XED=y
# CONFIG_IO_DELAY_UDELAY is not set
# CONFIG_IO_DELAY_NONE is not set
CONFIG_DEFAULT_IO_DELAY_TYPE=1
# CONFIG_KMEMCHECK is not set
# CONFIG_CPA_DEBUG is not set
# CONFIG_OPTIMIZE_INLINING is not set

#
# Security options
#
# CONFIG_INTEGRITY is not set
# CONFIG_KEYS is not set
# CONFIG_SECURITY is not set
# CONFIG_SECURITY_FILE_CAPABILITIES is not set
CONFIG_CRYPT=y

#
# Crypto core or helper
#
CONFIG_CRYPT_ALGAPI=y
CONFIG_CRYPT_BKCRYPT=y
CONFIG_CRYPT_MANAGER=y
# CONFIG_CRYPT_GF128MUL is not set
# CONFIG_CRYPT_NULL is not set
# CONFIG_CRYPT_CRYPTD is not set
# CONFIG_CRYPT_AUTHENC is not set
# CONFIG_CRYPT_TEST is not set

#
# Authenticated Encryption with Associated Data
#
# CONFIG_CRYPT_CCM is not set
# CONFIG_CRYPT_GCM is not set
# CONFIG_CRYPT_SEQIV is not set
```

```
#
# Block modes
#
# CONFIG_CRYPTOCBC is not set
# CONFIG_CRYPTOCTR is not set
# CONFIG_CRYPTOCCTS is not set
CONFIG_CRYPTOEBC=y
# CONFIG_CRYPTOLRW is not set
# CONFIG_CRYPTOPCBC is not set
# CONFIG_CRYPTOXTS is not set

#
# Hash modes
#
# CONFIG_CRYPTOHMAC is not set
# CONFIG_CRYPTOXCBC is not set

#
# Digest
#
# CONFIG_CRYPTOCRC32C is not set
# CONFIG_CRYPTOMD4 is not set
# CONFIG_CRYPTOMD5 is not set
# CONFIG_CRYPTOMICHAEL_MIC is not set
# CONFIG_CRYPTORMD128 is not set
# CONFIG_CRYPTORMD160 is not set
# CONFIG_CRYPTORMD256 is not set
# CONFIG_CRYPTORMD320 is not set
# CONFIG_CRYPTOSHA1 is not set
# CONFIG_CRYPTOSHA256 is not set
# CONFIG_CRYPTOSHA512 is not set
# CONFIG_CRYPTOTGR192 is not set
# CONFIG_CRYPTOWP512 is not set

#
# Ciphers
#
CONFIG_CRYPTOAES=y
# CONFIG_CRYPTOAES_586 is not set
# CONFIG_CRYPTOANUBIS is not set
CONFIG_CRYPTOARC4=y
# CONFIG_CRYPTOBLOWFISH is not set
# CONFIG_CRYPTOCAMELLIA is not set
# CONFIG_CRYPTOCAST5 is not set
# CONFIG_CRYPTOCAST6 is not set
# CONFIG_CRYPTODES is not set
# CONFIG_CRYPTOFCRYPT is not set
# CONFIG_CRYPTOKHAZAD is not set
# CONFIG_CRYPTOSALSA20 is not set
# CONFIG_CRYPTOSALSA20_586 is not set
```

```
# CONFIG_CRYPTO_SEED is not set
# CONFIG_CRYPTO_SERPENT is not set
# CONFIG_CRYPTO_TEA is not set
# CONFIG_CRYPTO_TWOFISH is not set
# CONFIG_CRYPTO_TWOFISH_586 is not set

#
# Compression
#
# CONFIG_CRYPTO_DEFLATE is not set
# CONFIG_CRYPTO_LZO is not set

#
# Random Number Generation
#
# CONFIG_CRYPTO_PRNG is not set
# CONFIG_CRYPTO_HW is not set
CONFIG_HAVE_KVM=y
# CONFIG_VIRTUALIZATION is not set

#
# Library routines
#
CONFIG_BITREVERSE=y
CONFIG_GENERIC_FIND_FIRST_BIT=y
CONFIG_GENERIC_FIND_NEXT_BIT=y
# CONFIG_CRC_CCITT is not set
# CONFIG_CRC16 is not set
# CONFIG_CRC_T10DIF is not set
# CONFIG_CRC_ITU_T is not set
CONFIG_CRC32=y
# CONFIG_CRC7 is not set
# CONFIG_LIBCRC32C is not set
CONFIG_PLIST=y
CONFIG_HAS_IOMEM=y
CONFIG_HAS_IOPORT=y
CONFIG_HAS_DMA=y
Linux version 2.6.27-rc1-mm1-dirty (mako@flyhigh) (gcc version 4.1.2 (Gentoo 4.1.2 p1.0.2)) #7
PREEMPT Sat Aug 2 23:39:25 CEST 2008
BIOS-provided physical RAM map:
BIOS-e820: 0000000000000000 - 000000000009f800 (usable)
BIOS-e820: 000000000009f800 - 00000000000a0000 (reserved)
BIOS-e820: 00000000000dc000 - 0000000000100000 (reserved)
BIOS-e820: 0000000000100000 - 000000001df70000 (usable)
BIOS-e820: 000000001df70000 - 000000001df7c000 (ACPI data)
BIOS-e820: 000000001df7c000 - 000000001df80000 (ACPI NVS)
BIOS-e820: 000000001df80000 - 000000001e000000 (reserved)
BIOS-e820: 000000002df80000 - 000000002e000000 (reserved)
BIOS-e820: 00000000fff80000 - 0000000100000000 (reserved)
last_pfn = 0x1df70 max_arch_pfn = 0x100000
x86 PAT enabled: cpu 0, old 0x7040600070406, new 0x7010600070106
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kernel direct mapping tables up to 1df70000 @ 7000-d000
DMI present.
ACPI: RSDP 000F6FE0, 0014 (r0 PTLTD)
ACPI: RSDT 1DF774D1, 002C (r1 SONY K7 6040000 LTP 0)
ACPI: FACP 1DF7BF64, 0074 (r1 SONY K7 6040000 PTL F4240)
ACPI: DSDT 1DF774FD, 4A67 (r1 SONY K7 6040000 MSFT 100000E)
ACPI: FACS 1DF7CFC0, 0040
ACPI: BOOT 1DF7BFD8, 0028 (r1 PTLTD \$SBFTBL\$ 6040000 LTP 1)
ACPI: DMI detected: Sony
479MB LOWMEM available.
mapped low ram: 0 - 1df70000
low ram: 00000000 - 1df70000
bootmap 00001000 - 00004bf0
(6 early reservations) ==> bootmem [0000000000 - 001df70000]
#0 [0000000000 - 0000001000] BIOS data page ==> [0000000000 - 0000001000]
#1 [0000100000 - 00006c8110] TEXT DATA BSS ==> [0000100000 - 00006c8110]
#2 [00006c9000 - 00006cc000] INIT_PG_TABLE ==> [00006c9000 - 00006cc000]
#3 [000009f800 - 0000100000] BIOS reserved ==> [000009f800 - 0000100000]
#4 [0000007000 - 0000009000] PGTABLE ==> [0000007000 - 0000009000]
#5 [0000001000 - 0000005000] BOOTMAP ==> [0000001000 - 0000005000]
sizeof(struct page) = 32
Zone PFN ranges:
DMA 0x00000000 -> 0x00001000
Normal 0x00001000 -> 0x0001df70
Movable zone start PFN for each node
early_node_map[2] active PFN ranges
0: 0x00000000 -> 0x0000009f
0: 0x00000100 -> 0x0001df70
On node 0 totalpages: 122639
DMA zone: 3967 pages, LIFO batch:0
Normal zone: 117713 pages, LIFO batch:31
ACPI: PM-Timer IO Port: 0x8008
Local APIC disabled by BIOS -- reenabling.
Found and enabled local APIC!
mapped APIC to fffb000 (fee00000)
PM: Registered nosave memory: 00000000009f000 - 0000000000a0000
PM: Registered nosave memory: 0000000000a0000 - 0000000000dc000
PM: Registered nosave memory: 0000000000dc000 - 0000000000100000
Allocating PCI resources starting at 30000000 (gap: 2e000000:d1f80000)
Built 1 zonelists in Zone order, mobility grouping on. Total pages: 121680
Kernel command line: root=/dev/hda3 vga=0x318 video=vesafb:mtrr lapic pci=routeirq
rootflags=data=writeback
Enabling fast FPU save and restore... done.
Enabling unmasked SIMD FPU exception support... done.
Initializing CPU#0
Preemptible RCU implementation.
CPU 0 irqstacks, hard=c03f2000 soft=c03f1000
PID hash table entries: 2048 (order: 11, 8192 bytes)
TSC calibrated against PM_TIMER
Detected 2392.448 MHz processor.
Console: colour dummy device 80x25

console [tty0] enabled
Lock dependency validator: Copyright (c) 2006 Red Hat, Inc., Ingo Molnar
... MAX_LOCKDEP_SUBCLASSES: 8
... MAX_LOCK_DEPTH: 48
... MAX_LOCKDEP_KEYS: 2048
... CLASSHASH_SIZE: 1024
... MAX_LOCKDEP_ENTRIES: 8192
... MAX_LOCKDEP_CHAINS: 16384
... CHAINHASH_SIZE: 8192
memory used by lock dependency info: 1056 kB
per task-struct memory footprint: 1920 bytes
Dentry cache hash table entries: 65536 (order: 6, 262144 bytes)
Inode-cache hash table entries: 32768 (order: 5, 131072 bytes)
Memory: 479920k/490944k available (1798k kernel code, 10480k reserved, 910k data, 284k init, 0k highmem)
virtual kernel memory layout:
fixmap : 0xffff9000 - 0xfffff000 (280 kB)
vmalloc : 0xde770000 - 0xfffb7000 (536 MB)
lowmem : 0xc0000000 - 0xddf70000 (479 MB)
.init : 0xc03a7000 - 0xc03ee000 (284 kB)
.data : 0xc02c19cf - 0xc03a5570 (910 kB)
.text : 0xc0100000 - 0xc02c19cf (1798 kB)
Checking if this processor honours the WP bit even in supervisor mode...Ok.
CPA: page pool initialized 1 of 1 pages preallocated
SLUB: Genslabs=12, HWalign=128, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
Calibrating delay loop (skipped), value calculated using timer frequency.. <6>4784.89 BogoMIPS (lpj=23924480)
Mount-cache hash table entries: 512
CPU: Trace cache: 12K uops, L1 D cache: 8K
CPU: L2 cache: 512K
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
CPU0: Intel P4/Xeon Extended MCE MSRs (12) available
CPU0: Thermal monitoring enabled
CPU: Intel(R) Pentium(R) 4 CPU 2.40GHz stepping 09
Checking 'hlt' instruction... OK.
Freeing SMP alternatives: 0k freed
ACPI: Core revision 20080609
ACPI: setting ELCR to 0200 (from 0c00)
net_namespace: 352 bytes
NET: Registered protocol family 16
EISA bus registered
ACPI: bus type pci registered
PCI: PCI BIOS revision 2.10 entry at 0xfd8a0, last bus=1
PCI: Using configuration type 1 for base access
ACPI: EC: Loo