

libata strangeness in 2.6.2-mm1 based kernel

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-02/1420.html>

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Date: 02/06/04

Date: Fri, 06 Feb 2004 10:46:56 +0100
To: linux-kernel@vger.kernel.org, jgarzik@mandrakesoft.com

Hi,

it is nothing really serious, but nevertheless strange:

When using `hdparm -t` or `dd if=/dev/sda of=/dev/null count=1024000 bs=4096`, no matter how long I wait, I only get about 20-22mb/sec transfer. But stopping above or waiting till it is finished, the second time my old transfer rate comes back: 62mb/sec.

What is causing this? I am using libata with siimage and Samsung HD.

Prakash

```
le entries: 512 (order: 0, 4096 bytes)
checking if image is initramfs...it isn't (ungzip failed); looks like an
initrd
Freeing initrd memory: 304k freed
CPU: After generic identify, caps: 0383fbff c1c3fbff 00000000 00000000
CPU: After vendor identify, caps: 0383fbff c1c3fbff 00000000 00000000
CPU: L1 I Cache: 64K (64 bytes/line), D cache 64K (64 bytes/line)
CPU: L2 Cache: 256K (64 bytes/line)
CPU: After all inits, caps: 0383fbff c1c3fbff 00000000 00000020
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
CPU: AMD Athlon(tm) stepping 01
Enabling fast FPU save and restore... done.
Enabling unmasked SIMD FPU exception support... done.
Checking 'hlt' instruction... OK.
POSIX conformance testing by UNIFIX
enabled ExtINT on CPU#0
ESR value before enabling vector: 00000000
ESR value after enabling vector: 00000000
ENABLING IO-APIC IRQs
init IO_APIC IRQs
IO-APIC (apicid-pin) 2-0, 2-16, 2-17, 2-18, 2-19, 2-20, 2-21, 2-22,
2-23 not connected.
```

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```
..TIMER: vector=0x31 pin1=2 pin2=0
..MP-BIOS bug: 8254 timer not connected to IO-APIC
...trying to set up timer (IRQ0) through the 8259A ...
..... (found pin 0) ...works.
Using local APIC timer interrupts.
calibrating APIC timer ...
..... CPU clock speed is 2104.0468 MHz.
..... host bus clock speed is 400.0851 MHz.
NET: Registered protocol family 16
PCI: Using configuration type 1
mtrr: v2.0 (20020519)
ACPI: Subsystem revision 20040116
IOAPIC[0]: Set PCI routing entry (2-9 -> 0x71 -> IRQ 9 Mode:1 Active:0)
ACPI: Interpreter enabled
ACPI: Using IOAPIC for interrupt routing
ACPI: PCI Root Bridge [PCI0] (00:00)
PCI: Probing PCI hardware (bus 00)
ACPI: PCI Interrupt Routing Table [_SB_.PCI0._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.HUB0._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.AGPB._PRT]
ACPI: PCI Interrupt Link [LNK1] (IRQs 3 4 5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNK2] (IRQs 3 4 5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNK3] (IRQs 3 4 5 6 7 10 *11 12 14 15)
ACPI: PCI Interrupt Link [LNK4] (IRQs 3 4 *5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNK5] (IRQs 3 4 5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LUBA] (IRQs 3 4 *5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LUBB] (IRQs 3 4 5 6 7 *10 11 12 14 15)
ACPI: PCI Interrupt Link [LMAC] (IRQs 3 4 5 6 7 *10 11 12 14 15)
ACPI: PCI Interrupt Link [LAPU] (IRQs 3 4 5 6 7 *10 11 12 14 15)
ACPI: PCI Interrupt Link [LACI] (IRQs 3 4 5 6 7 10 *11 12 14 15)
ACPI: PCI Interrupt Link [LMCI] (IRQs 3 4 5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LSMB] (IRQs 3 4 5 6 7 10 *11 12 14 15)
ACPI: PCI Interrupt Link [LUB2] (IRQs 3 4 5 6 7 10 *11 12 14 15)
ACPI: PCI Interrupt Link [LFIR] (IRQs 3 4 *5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [L3CM] (IRQs 3 4 5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LIDE] (IRQs 3 4 5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [APC1] (IRQs 16)
ACPI: PCI Interrupt Link [APC2] (IRQs 17)
ACPI: PCI Interrupt Link [APC3] (IRQs *18)
ACPI: PCI Interrupt Link [APC4] (IRQs *19)
ACPI: PCI Interrupt Link [APCE] (IRQs 16)
ACPI: PCI Interrupt Link [APCF] (IRQs 20 21 22)
ACPI: PCI Interrupt Link [APCG] (IRQs 20 21 22)
ACPI: PCI Interrupt Link [APCH] (IRQs 20 21 22)
ACPI: PCI Interrupt Link [APCI] (IRQs 20 21 22)
ACPI: PCI Interrupt Link [APCJ] (IRQs 20 21 22)
ACPI: PCI Interrupt Link [APCK] (IRQs 20 21 22)
ACPI: PCI Interrupt Link [APCS] (IRQs *23)
ACPI: PCI Interrupt Link [APCL] (IRQs 20 21 22)
ACPI: PCI Interrupt Link [APCM] (IRQs 20 21 22)
ACPI: PCI Interrupt Link [AP3C] (IRQs 20 21 22)
```

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ACPI: PCI Interrupt Link [APCZ] (IRQs 20 21 22)
Linux Plug and Play Support v0.97 (c) Adam Belay
SCSI subsystem initialized
ACPI: PCI Interrupt Link [APCS] enabled at IRQ 23
IOAPIC[0]: Set PCI routing entry (2–23 -> 0xa9 -> IRQ 23 Mode:1 Active:0)
00:00:01[A] -> 2–23 -> IRQ 23
Pin 2–23 already programmed
ACPI: PCI Interrupt Link [APCF] enabled at IRQ 20
IOAPIC[0]: Set PCI routing entry (2–20 -> 0xb1 -> IRQ 20 Mode:1 Active:0)
00:00:02[A] -> 2–20 -> IRQ 20
ACPI: PCI Interrupt Link [APCG] enabled at IRQ 22
IOAPIC[0]: Set PCI routing entry (2–22 -> 0xb9 -> IRQ 22 Mode:1 Active:0)
00:00:02[B] -> 2–22 -> IRQ 22
ACPI: PCI Interrupt Link [APCL] enabled at IRQ 21
IOAPIC[0]: Set PCI routing entry (2–21 -> 0xc1 -> IRQ 21 Mode:1 Active:0)
00:00:02[C] -> 2–21 -> IRQ 21
ACPI: PCI Interrupt Link [APCH] enabled at IRQ 20
Pin 2–20 already programmed
ACPI: PCI Interrupt Link [APCI] enabled at IRQ 22
Pin 2–22 already programmed
ACPI: PCI Interrupt Link [APCJ] enabled at IRQ 21
Pin 2–21 already programmed
ACPI: PCI Interrupt Link [APCK] enabled at IRQ 20
Pin 2–20 already programmed
ACPI: PCI Interrupt Link [APCM] enabled at IRQ 22
Pin 2–22 already programmed
ACPI: PCI Interrupt Link [AP3C] enabled at IRQ 21
Pin 2–21 already programmed
ACPI: PCI Interrupt Link [APCZ] enabled at IRQ 20
Pin 2–20 already programmed
ACPI: PCI Interrupt Link [APC3] enabled at IRQ 18
IOAPIC[0]: Set PCI routing entry (2–18 -> 0xc9 -> IRQ 18 Mode:1 Active:0)
00:01:06[A] -> 2–18 -> IRQ 18
ACPI: PCI Interrupt Link [APC4] enabled at IRQ 19
IOAPIC[0]: Set PCI routing entry (2–19 -> 0xd1 -> IRQ 19 Mode:1 Active:0)
00:01:06[B] -> 2–19 -> IRQ 19
ACPI: PCI Interrupt Link [APC1] enabled at IRQ 16
IOAPIC[0]: Set PCI routing entry (2–16 -> 0xd9 -> IRQ 16 Mode:1 Active:0)
00:01:06[C] -> 2–16 -> IRQ 16
ACPI: PCI Interrupt Link [APC2] enabled at IRQ 17
IOAPIC[0]: Set PCI routing entry (2–17 -> 0xe1 -> IRQ 17 Mode:1 Active:0)
00:01:06[D] -> 2–17 -> IRQ 17
Pin 2–19 already programmed
Pin 2–16 already programmed
Pin 2–17 already programmed
Pin 2–18 already programmed
Pin 2–16 already programmed
Pin 2–17 already programmed
Pin 2–18 already programmed
Pin 2–19 already programmed
Pin 2–17 already programmed

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```
Pin 2-18 already programmed
Pin 2-19 already programmed
Pin 2-16 already programmed
Pin 2-18 already programmed
Pin 2-19 already programmed
Pin 2-16 already programmed
Pin 2-17 already programmed
Pin 2-18 already programmed
Pin 2-18 already programmed
Pin 2-18 already programmed
Pin 2-18 already programmed
Pin 2-19 already programmed
number of MP IRQ sources: 16.
number of IO-APIC #2 registers: 24.
testing the IO APIC.....
IO APIC #2.....
.... register #00: 02000000
..... : physical APIC id: 02
..... : Delivery Type: 0
..... : LTS : 0
.... register #01: 00170011
..... : max redirection entries: 0017
..... : PRQ implemented: 0
..... : IO APIC version: 0011
.... register #02: 00000000
..... : arbitration: 00
.... IRQ redirection table:
NR Log Phy Mask Trig IRR Pol Stat Dest Deli Vect:
00 001 01 0 0 0 0 0 1 1 31
01 001 01 0 0 0 0 0 1 1 39
02 000 00 1 0 0 0 0 0 0 00
03 001 01 0 0 0 0 0 1 1 41
04 001 01 0 0 0 0 0 1 1 49
05 001 01 0 0 0 0 0 1 1 51
06 001 01 0 0 0 0 0 1 1 59
07 001 01 0 0 0 0 0 1 1 61
08 001 01 0 0 0 0 0 1 1 69
09 001 01 0 1 0 0 0 1 1 71
0a 001 01 0 0 0 0 0 1 1 79
0b 001 01 0 0 0 0 0 1 1 81
0c 001 01 0 0 0 0 0 1 1 89
0d 001 01 0 0 0 0 0 1 1 91
0e 001 01 0 0 0 0 0 1 1 99
0f 001 01 0 0 0 0 0 1 1 A1
10 001 01 1 1 0 0 0 1 1 D9
11 001 01 1 1 0 0 0 1 1 E1
12 001 01 1 1 0 0 0 1 1 C9
13 001 01 1 1 0 0 0 1 1 D1
14 001 01 1 1 0 0 0 1 1 B1
15 001 01 1 1 0 0 0 1 1 C1
16 001 01 1 1 0 0 0 1 1 B9
```

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17 001 01 1 1 0 0 0 1 1 A9

IRQ to pin mappings:

IRQ0 -> 0:0

IRQ1 -> 0:1

IRQ3 -> 0:3

IRQ4 -> 0:4

IRQ5 -> 0:5

IRQ6 -> 0:6

IRQ7 -> 0:7

IRQ8 -> 0:8

IRQ9 -> 0:9-> 0:9

IRQ10 -> 0:10

IRQ11 -> 0:11

IRQ12 -> 0:12

IRQ13 -> 0:13

IRQ14 -> 0:14

IRQ15 -> 0:15

IRQ16 -> 0:16

IRQ17 -> 0:17

IRQ18 -> 0:18

IRQ19 -> 0:19

IRQ20 -> 0:20

IRQ21 -> 0:21

IRQ22 -> 0:22

IRQ23 -> 0:23

..... done.

PCI: Using ACPI for IRQ routing

PCI: if you experience problems, try using option 'pci=noacpi' or even 'acpi=off'

vesafb: framebuffer at 0xc0000000, mapped to 0xf880c000, size 16384k

vesafb: mode is 1280x1024x16, linelength=2560, pages=1

vesafb: protected mode interface info at c000:ea60

vesafb: scrolling: redraw

vesafb: directcolor: size=0:5:6:5, shift=0:11:5:0

fb0: VESA VGA frame buffer device

Machine check exception polling timer started.

IA-32 Microcode Update Driver: v1.13 <tigran@veritas.com>

apm: BIOS version 1.2 Flags 0x07 (Driver version 1.16ac)

apm: overridden by ACPI.

highmem bounce pool size: 64 pages

Loading Reiser4. See www.namesys.com for a description of Reiser4.

Installing knfsd (copyright (C) 1996 okir@monad.swb.de).

NTFS driver 2.1.6 [Flags: R/W].

udf: registering filesystem

ACPI: Power Button (FF) [PWRF]

ACPI: Fan [FAN] (on)

ACPI: Processor [CPU0] (supports C1)

ACPI: Thermal Zone [THRM] (18 C)

bootsplash 3.1.3-2003/11/14: looking for picture.... silentjpeg size

155838 bytes, found (1280x1024, 155850 bytes, v3).

Console: switching to colour frame buffer device 153x58

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```
pty: 256 Unix98 ptys configured
Real Time Clock Driver v1.12
Non-volatile memory driver v1.2
Serial: 8250/16550 driver $Revision: 1.90 $ 8 ports, IRQ sharing disabled
ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A
Floppy drive(s): fd0 is 1.44M
FDC 0 is a post-1991 82077
loop: loaded (max 8 devices)
pktcdvd: v0.1.1a 2004-01-04 Jens Axboe (axboe@suse.de) and petero2@telia.com
forcedeth.c: Reverse Engineered nForce ethernet driver. Version 0.19.
PCI: Setting latency timer of device 0000:00:04.0 to 64
eth0: forcedeth.c: subsystem: 0147b:1c00 bound to 0000:00:04.0
drivers/media/dvb/b2c2/skystar2.c: FlexCopII(rev.130) chip found
drivers/media/dvb/b2c2/skystar2.c: the chip has 6 hardware filters
driver_initialize MAC address = ff:ff:ff:ff:ff:00:00
DVB: registering new adapter (Technisat SkyStar2 driver).
DVB: registering frontend 0:0 (Zarlink MT312)...
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
NFORCE2: IDE controller at PCI slot 0000:00:09.0
NFORCE2: chipset revision 162
NFORCE2: not 100% native mode: will probe irqs later
NFORCE2: 0000:00:09.0 (rev a2) UDMA133 controller
    ide0: BM-DMA at 0xf000-0xf007, BIOS settings: hda:DMA, hdb:DMA
    ide1: BM-DMA at 0xf008-0xf00f, BIOS settings: hdc:DMA, hdd:DMA
hda: _NEC DV-5800A, ATAPI CD/DVD-ROM drive
ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
hdc: NU DVDRW DDW-081, ATAPI CD/DVD-ROM drive
hdd: IOMEGA ZIP 100 ATAPI, ATAPI FLOPPY drive
ide1 at 0x170-0x177,0x376 on irq 15
hda: ATAPI 48X DVD-ROM drive, 512kB Cache, UDMA(33)
Uniform CD-ROM driver Revision: 3.20
hdc: ATAPI 40X DVD-ROM CD-R/RW drive, 2048kB Cache, UDMA(33)
ide-floppy driver 0.99.newide
hdd: No disk in drive
hdd: 98304kB, 32/64/96 CHS, 4096 kBps, 512 sector size, 2941 rpm
libata version 0.81 loaded.
sata_sil version 0.52
ata1: SATA max UDMA/133 cmd 0xF983A080 ctl 0xF983A08A bmdma 0xF983A000
irq 18
ata2: SATA max UDMA/133 cmd 0xF983A0C0 ctl 0xF983A0CA bmdma 0xF983A008
irq 18
ata1: dev 0 cfg 49:2f00 82:346b 83:7f01 84:4003 85:3c69 86:3c01 87:4003
88:203f
ata1: dev 0 ATA, max UDMA/100, 312581808 sectors (lba48)
ata1: dev 0 configured for UDMA/100
scsi0 : sata_sil
ata2: no device found (phy stat 00000000)
ata2: thread exiting
scsi1 : sata_sil
```

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Vendor: ATA Model: SAMSUNG SP1614N Rev: 0.81
Type: Direct–Access ANSI SCSI revision: 05
SCSI device sda: 312581808 512–byte hdwr sectors (160042 MB)
SCSI device sda: drive cache: write through
sda: sda1 sda2 sda3 < sda5 sda6 sda7 >
Attached scsi disk sda at scsi0, channel 0, id 0, lun 0
Console: switching to colour frame buffer device 153x58
mice: PS/2 mouse device common for all mice
serio: i8042 AUX port at 0x60,0x64 irq 12
input: ImPS/2 Generic Wheel Mouse on isa0060/serio1
serio: i8042 KBD port at 0x60,0x64 irq 1
input: AT Translated Set 2 keyboard on isa0060/serio0
I2O Core – (C) Copyright 1999 Red Hat Software
I2O: Event thread created as pid 14
i2o: Checking for PCI I2O controllers...
I2O configuration manager v 0.04.
(C) Copyright 1999 Red Hat Software
i2c /dev entries driver
i2c_adapter i2c–0: nForce2 SMBus adapter at 0x5000
i2c_adapter i2c–1: nForce2 SMBus adapter at 0x5100
Advanced Linux Sound Architecture Driver Version 1.0.2c.
request_module: failed /sbin/modprobe -- snd–card–0. error = –16
PCI: Setting latency timer of device 0000:00:06.0 to 64
intel8x0: clocking to 47376
ALSA device list:
#0: NVidia nForce2 at 0xcc081000, irq 21
NET: Registered protocol family 2
IP: routing cache hash table of 8192 buckets, 64Kbytes
TCP: Hash tables configured (established 262144 bind 65536)
NET: Registered protocol family 1
NET: Registered protocol family 17
ACPI: (supports S0 S3 S4 S5)
found reiserfs format "3.6" with standard journal
Reiserfs journal params: device sda7, size 8192, journal first block 18,
max trans len 1024, max batch 900, max commit age 30, max trans age 30
reiserfs: checking transaction log (sda7) for (sda7)
Using r5 hash to sort names
VFS: Mounted root (reiserfs filesystem) readonly.
Freeing unused kernel memory: 176k freed
nvidia: no version magic, tainting kernel.
nvidia: module license 'NVIDIA' taints kernel.
0: nvidia: loading NVIDIA Linux x86 NVIDIA Kernel Module 1.0–5336 Wed
Jan 14 18:29:26 PST 2004
NTFS volume version 3.1.
NTFS volume version 3.1.
drivers/usb/core/usb.c: registered new driver usbfs
drivers/usb/core/usb.c: registered new driver hub
ehci_hcd 0000:00:02.2: EHCI Host Controller
PCI: Setting latency timer of device 0000:00:02.2 to 64
ehci_hcd 0000:00:02.2: irq 21, pci mem f985d000
ehci_hcd 0000:00:02.2: new USB bus registered, assigned bus number 1

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```
PCI: cache line size of 64 is not supported by device 0000:00:02.2
ehci_hcd 0000:00:02.2: USB 2.0 enabled, EHCI 1.00, driver 2003-Dec-29
hub 1-0:1.0: USB hub found
hub 1-0:1.0: 6 ports detected
ohci_hcd: 2003 Oct 13 USB 1.1 'Open' Host Controller (OHCI) Driver (PCI)
ohci_hcd: block sizes: ed 64 td 64
ohci_hcd 0000:00:02.0: OHCI Host Controller
PCI: Setting latency timer of device 0000:00:02.0 to 64
ohci_hcd 0000:00:02.0: irq 20, pci mem f985f000
ohci_hcd 0000:00:02.0: new USB bus registered, assigned bus number 2
hub 2-0:1.0: USB hub found
hub 2-0:1.0: 3 ports detected
ohci_hcd 0000:00:02.1: OHCI Host Controller
PCI: Setting latency timer of device 0000:00:02.1 to 64
ohci_hcd 0000:00:02.1: irq 22, pci mem f9861000
ohci_hcd 0000:00:02.1: new USB bus registered, assigned bus number 3
hub 3-0:1.0: USB hub found
hub 3-0:1.0: 3 ports detected
hub 2-0:1.0: new USB device on port 1, assigned address 2
drivers/usb/class/usblp.c: usblp0: USB Bidirectional printer dev 2 if 0
alt 1 proto 2 vid 0x03F0 pid 0x1004
drivers/usb/core/usb.c: registered new driver usblp
drivers/usb/class/usblp.c: v0.13: USB Printer Device Class driver
svc: unknown version (3)
atkbd.c: Unknown key released (translated set 2, code 0x7a on
isa0060/serio0).
atkbd.c: This is an XFree86 bug. It shouldn't access hardware directly.
atkbd.c: Unknown key released (translated set 2, code 0x7a on
isa0060/serio0).
atkbd.c: This is an XFree86 bug. It shouldn't access hardware directly.
```

```
#
# Automatically generated make config: don't edit
#
CONFIG_X86=y
CONFIG_MMU=y
CONFIG_UID16=y
CONFIG_GENERIC_ISA_DMA=y

#
# Code maturity level options
#
CONFIG_EXPERIMENTAL=y
# CONFIG_CLEAN_COMPILE is not set
# CONFIG_STANDALONE is not set
CONFIG_BROKEN=y
CONFIG_BROKEN_ON_SMP=y
```

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```
#
# General setup
#
CONFIG_SWAP=y
CONFIG_SYSVIPC=y
# CONFIG_BSD_PROCESS_ACCT is not set
CONFIG_SYSCTL=y
CONFIG_LOG_BUF_SHIFT=14
# CONFIG_IKCONFIG is not set
# CONFIG_EMBEDDED is not set
CONFIG_KALLSYMS=y
CONFIG_FUTEX=y
CONFIG_EPOLL=y
CONFIG_IOSCHED_NOOP=y
CONFIG_IOSCHED_AS=y
CONFIG_IOSCHED_DEADLINE=y
CONFIG_IOSCHED_CFQ=y
# CONFIG_CC_OPTIMIZE_FOR_SIZE is not set

#
# Loadable module support
#
CONFIG_MODULES=y
CONFIG_MODULE_UNLOAD=y
# CONFIG_MODULE_FORCE_UNLOAD is not set
CONFIG_OBSOLETE_MODPARM=y
# CONFIG_MODVERSIONS is not set
CONFIG_KMOD=y

#
# Processor type and features
#
CONFIG_X86_PC=y
# CONFIG_X86_ELAN is not set
# CONFIG_X86_VOYAGER is not set
# CONFIG_X86_NUMAQ is not set
# CONFIG_X86_SUMMIT is not set
# CONFIG_X86_BIGSMP is not set
# CONFIG_X86_VISWS is not set
# CONFIG_X86_GENERICARCH is not set
# CONFIG_X86_ES7000 is not set

#
# Processor support
#

#
# Select all processors your kernel should support
#
# CONFIG_CPU_386 is not set
# CONFIG_CPU_486 is not set
```

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```
# CONFIG_CPU_586 is not set
# CONFIG_CPU_586TSC is not set
# CONFIG_CPU_586MMX is not set
# CONFIG_CPU_686 is not set
# CONFIG_CPU_PENTIUMIII is not set
# CONFIG_CPU_PENTIUMIII is not set
# CONFIG_CPU_PENTIUMMM is not set
# CONFIG_CPU_PENTIUM4 is not set
# CONFIG_CPU_K6 is not set
CONFIG_CPU_K7=y
# CONFIG_CPU_K8 is not set
# CONFIG_CPU_CRUSOE is not set
# CONFIG_CPU_WINCHIP6 is not set
# CONFIG_CPU_WINCHIP2 is not set
# CONFIG_CPU_WINCHIP3D is not set
# CONFIG_CPU_CYRIXIII is not set
# CONFIG_CPU_VIAC3_2 is not set
CONFIG_CPU_ONLY_K7=y
CONFIG_X86_CMPXCHG=y
CONFIG_X86_XADD=y
CONFIG_X86_L1_CACHE_SHIFT=6
CONFIG_RWSEM_XCHGADD_ALGORITHM=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_USE_3DNOW=y
# CONFIG_X86_4G is not set
# CONFIG_X86_SWITCH_PAGETABLES is not set
# CONFIG_X86_4G_VM_LAYOUT is not set
# CONFIG_X86_UACCESS_INDIRECT is not set
# CONFIG_X86_HIGH_ENTRY is not set
CONFIG_HPET_TIMER=y
CONFIG_HPET_EMULATE_RTC=y
# CONFIG_SMP is not set
CONFIG_PREEMPT=y
CONFIG_X86_UP_APIC=y
CONFIG_X86_UP_IOAPIC=y
CONFIG_X86_LOCAL_APIC=y
CONFIG_X86_IO_APIC=y
CONFIG_X86_TSC=y
CONFIG_X86_MCE=y
CONFIG_X86_MCE_NONFATAL=y
# CONFIG_X86_MCE_P4THERMAL is not set
# CONFIG_TOSHIBA is not set
# CONFIG_I8K is not set
CONFIG_MICROCODE=y
CONFIG_X86_MSR=y
CONFIG_X86_CPUID=y
```

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```
# CONFIG_EDD is not set
# CONFIG_NOHIGHMEM is not set
CONFIG_HIGHMEM4G=y
# CONFIG_HIGHMEM64G is not set
CONFIG_HIGHMEM=y
CONFIG_HIGHPTE=y
# CONFIG_MATH_EMULATION is not set
CONFIG_MTRR=y
# CONFIG_EFI is not set
CONFIG_HAVE_DEC_LOCK=y
# CONFIG_REGPARM is not set

#
# Power management options (ACPI, APM)
#
CONFIG_PM=y
# CONFIG_SOFTWARE_SUSPEND is not set
# CONFIG_PM_DISK is not set

#
# ACPI (Advanced Configuration and Power Interface) Support
#
CONFIG_ACPI=y
CONFIG_ACPI_BOOT=y
CONFIG_ACPI_INTERPRETER=y
CONFIG_ACPI_SLEEP=y
CONFIG_ACPI_SLEEP_PROC_FS=y
CONFIG_ACPI_AC=y
CONFIG_ACPI_BATTERY=y
CONFIG_ACPI_BUTTON=y
CONFIG_ACPI_FAN=y
CONFIG_ACPI_PROCESSOR=y
CONFIG_ACPI_THERMAL=y
# CONFIG_ACPI_ASUS is not set
# CONFIG_ACPI_TOSHIBA is not set
# CONFIG_ACPI_DEBUG is not set
CONFIG_ACPI_BUS=y
CONFIG_ACPI_EC=y
CONFIG_ACPI_POWER=y
CONFIG_ACPI_PCI=y
CONFIG_ACPI_SYSTEM=y
# CONFIG_ACPI_RELAXED_AML is not set
CONFIG_X86_PM_TIMER=y

#
# APM (Advanced Power Management) BIOS Support
#
CONFIG_APM=y
# CONFIG_APM_IGNORE_USER_SUSPEND is not set
# CONFIG_APM_DO_ENABLE is not set
CONFIG_APM_CPU_IDLE=y
```

Linux–Kernel: libata strangeness in 2.6.2–mm1 based kernel

```
# CONFIG_APM_DISPLAY_BLANK is not set
# CONFIG_APM_RTC_IS_GMT is not set
# CONFIG_APM_ALLOW_INTS is not set
# CONFIG_APM_REAL_MODE_POWER_OFF is not set
```

```
#
# CPU Frequency scaling
#
# CONFIG_CPU_FREQ is not set
```

```
#
# Bus options (PCI, PCMCIA, EISA, MCA, ISA)
```

```
#
CONFIG_PCI=y
# CONFIG_PCI_GOBIO is not set
# CONFIG_PCI_GOMMCONFIG is not set
CONFIG_PCI_GODIRECT=y
# CONFIG_PCI_GOANY is not set
CONFIG_PCI_DIRECT=y
# CONFIG_PCI_USE_VECTOR is not set
CONFIG_PCI_LEGACY_PROC=y
CONFIG_PCI_NAMES=y
CONFIG_ISA=y
# CONFIG_EISA is not set
# CONFIG_MCA is not set
# CONFIG_SCx200 is not set
CONFIG_HOTPLUG=y
```

```
#
# PCMCIA/CardBus support
#
# CONFIG_PCMCIA is not set
CONFIG_PCMCIA_PROBE=y
```

```
#
# PCI Hotplug Support
#
# CONFIG_HOTPLUG_PCI is not set
```

```
#
# Executable file formats
#
CONFIG_BINFMT_ELF=y
CONFIG_BINFMT_AOUT=y
CONFIG_BINFMT_MISC=y
```

```
#
# Device Drivers
#
```

Linux-Kernel: libata strangeness in 2.6.2-mm1 based kernel

```
#
# Generic Driver Options
#
# CONFIG_FW_LOADER is not set

#
# Memory Technology Devices (MTD)
#
# CONFIG_MTD is not set

#
# Parallel port support
#
# CONFIG_PARPORT is not set

#
# Plug and Play support
#
CONFIG_PNP=y
# CONFIG_PNP_DEBUG is not set

#
# Protocols
#
# CONFIG_ISAPNP is not set
# CONFIG_PNPBIOS is not set

#
# Block devices
#
CONFIG_BLK_DEV_FD=y
# CONFIG_BLK_DEV_XD 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_LOOP=y
# CONFIG_BLK_DEV_CRYPTOLOOP is not set
# CONFIG_BLK_DEV_NBD is not set
# CONFIG_BLK_DEV_RAM is not set
CONFIG_BLK_DEV_INITRD=y
CONFIG_LBD=y
CONFIG_CDROM_PKTCDVD=y
CONFIG_CDROM_PKTCDVD_BUFFERS=8
# CONFIG_CDROM_PKTCDVD_WCACHE is not set

#
# ATA/ATAPI/MFM/RLL support
#
CONFIG_IDE=y
CONFIG_BLK_DEV_IDE=y
```

Linux-Kernel: libata strangeness in 2.6.2-mm1 based kernel

```
#
# Please see Documentation/ide.txt for help/info on IDE drives
#
# CONFIG_BLK_DEV_HD_IDE is not set
CONFIG_BLK_DEV_IDEDISK=y
CONFIG_IDEDISK_MULTI_MODE=y
# CONFIG_IDEDISK_STROKE is not set
CONFIG_BLK_DEV_IDECD=y
# CONFIG_BLK_DEV_IDETAPE is not set
CONFIG_BLK_DEV_IDEFLOPPY=y
# CONFIG_BLK_DEV_IDESCSI is not set
CONFIG_IDE_TASK_IOCTL=y
CONFIG_IDE_TASKFILE_IO=y

#
# IDE chipset support/bugfixes
#
# CONFIG_IDE_GENERIC is not set
# CONFIG_BLK_DEV_CMD640 is not set
# CONFIG_BLK_DEV_IDEPNP is not set
CONFIG_BLK_DEV_IDEPCI=y
CONFIG_IDEPCI_SHARE_IRQ=y
# CONFIG_BLK_DEV_OFFBOARD 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_IDEDMA_FORCED is not set
CONFIG_IDEDMA_PCI_AUTO=y
# CONFIG_IDEDMA_ONLYDISK is not set
# CONFIG_IDEDMA_PCI_WIP is not set
CONFIG_BLK_DEV_ADMA=y
# CONFIG_BLK_DEV_AEC62XX is not set
# CONFIG_BLK_DEV_ALI15X3 is not set
CONFIG_BLK_DEV_AMD74XX=y
# CONFIG_BLK_DEV_CMD64X is not set
# CONFIG_BLK_DEV_TRIFLEX is not set
# CONFIG_BLK_DEV_CY82C693 is not set
# CONFIG_BLK_DEV_CS5520 is not set
# CONFIG_BLK_DEV_CS5530 is not set
# CONFIG_BLK_DEV_HPT34X is not set
# CONFIG_BLK_DEV_HPT366 is not set
# CONFIG_BLK_DEV_SC1200 is not set
# CONFIG_BLK_DEV_PIIX 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
```

Linux–Kernel: libata strangeness in 2.6.2–mm1 based kernel

```
# CONFIG_BLK_DEV_TRM290 is not set
# CONFIG_BLK_DEV_VIA82CXXX is not set
# CONFIG_IDE_CHIPSETS is not set
CONFIG_BLK_DEV_IDEDMA=y
# CONFIG_IDEDMA_IVB is not set
CONFIG_IDEDMA_AUTO=y
# CONFIG_DMA_NONPCI is not set
# CONFIG_BLK_DEV_HD is not set

#
# SCSI device support
#
CONFIG_SCSI=y
CONFIG_SCSI_PROC_FS=y

#
# SCSI support type (disk, tape, CD–ROM)
#
CONFIG_BLK_DEV_SD=y
CONFIG_MAX_SD_DISKS=256
# CONFIG_CHR_DEV_ST is not set
# CONFIG_CHR_DEV_OSST is not set
# CONFIG_BLK_DEV_SR is not set
# CONFIG_CHR_DEV_SG is not set

#
# Some SCSI devices (e.g. CD jukebox) support multiple LUNs
#
# CONFIG_SCSI_MULTI_LUN is not set
CONFIG_SCSI_REPORT_LUNS=y
# CONFIG_SCSI_CONSTANTS is not set
# CONFIG_SCSI_LOGGING is not set

#
# SCSI low–level drivers
#
# CONFIG_BLK_DEV_3W_XXXX_RAID is not set
# CONFIG_SCSI_7000FASST is not set
# CONFIG_SCSI_ACARD is not set
# CONFIG_SCSI_AHA152X is not set
# CONFIG_SCSI_AHA1542 is not set
# CONFIG_SCSI_AACRAID is not set
# CONFIG_SCSI_AIC7XXX is not set
# CONFIG_SCSI_AIC7XXX_OLD is not set
# CONFIG_SCSI_AIC79XX is not set
# CONFIG_SCSI_DPT_I2O is not set
# CONFIG_SCSI_ADVANSYS is not set
# CONFIG_SCSI_IN2000 is not set
# CONFIG_SCSI_MEGARAID is not set
CONFIG_SCSI_SATA=y
# CONFIG_SCSI_SATA_SVW is not set
```

Linux–Kernel: libata strangeness in 2.6.2–mm1 based kernel

```
# CONFIG_SCSI_ATA_PIIX is not set
# CONFIG_SCSI_SATA_PROMISE is not set
CONFIG_SCSI_SATA_SIL=y
# CONFIG_SCSI_SATA_VIA is not set
# CONFIG_SCSI_BUSLOGIC is not set
# CONFIG_SCSI_CPQFCTS is not set
# CONFIG_SCSI_DMX3191D is not set
# CONFIG_SCSI_DTC3280 is not set
# CONFIG_SCSI_EATA is not set
# CONFIG_SCSI_EATA_PIO is not set
# CONFIG_SCSI_FUTURE_DOMAIN is not set
# CONFIG_SCSI_GDTH is not set
# CONFIG_SCSI_GENERIC_NCR5380 is not set
# CONFIG_SCSI_GENERIC_NCR5380_MMIO is not set
# CONFIG_SCSI_IPS is not set
# CONFIG_SCSI_INITIO is not set
# CONFIG_SCSI_INIA100 is not set
# CONFIG_SCSI_NCR53C406A is not set
# CONFIG_SCSI_SYM53C8XX_2 is not set
# CONFIG_SCSI_PAS16 is not set
# CONFIG_SCSI_PCI2000 is not set
# CONFIG_SCSI_PCI2220I is not set
# CONFIG_SCSI_PSI240I is not set
# CONFIG_SCSI_QLOGIC_FAS is not set
# CONFIG_SCSI_QLOGIC_ISP is not set
# CONFIG_SCSI_QLOGIC_1280 is not set
CONFIG_SCSI_QLA2XXX=y
# CONFIG_SCSI_QLA21XX is not set
# CONFIG_SCSI_QLA22XX is not set
# CONFIG_SCSI_QLA2300 is not set
# CONFIG_SCSI_QLA2322 is not set
# CONFIG_SCSI_QLA6312 is not set
# CONFIG_SCSI_QLA6322 is not set
# CONFIG_SCSI_SEAGATE is not set
# CONFIG_SCSI_SYM53C416 is not set
# CONFIG_SCSI_DC395x is not set
# CONFIG_SCSI_DC390T is not set
# CONFIG_SCSI_T128 is not set
# CONFIG_SCSI_U14_34F is not set
# CONFIG_SCSI_ULTRASTOR is not set
# CONFIG_SCSI_NSP32 is not set
# CONFIG_SCSI_DEBUG is not set

#
# Old CD–ROM drivers (not SCSI, not IDE)
#
# CONFIG_CD_NO_IDESCSI is not set

#
# Multi–device support (RAID and LVM)
#
```

Linux–Kernel: libata strangeness in 2.6.2–mm1 based kernel

```
# CONFIG_MD is not set

#
# Fusion MPT device support
#
# CONFIG_FUSION is not set

#
# IEEE 1394 (FireWire) support (EXPERIMENTAL)
#
# CONFIG_IEEE1394 is not set

#
# I2O device support
#
CONFIG_I2O=y
CONFIG_I2O_PCI=y
# CONFIG_I2O_BLOCK is not set
# CONFIG_I2O_SCSI is not set
CONFIG_I2O_PROC=y

#
# Macintosh device drivers
#

#
# Networking support
#
CONFIG_NET=y

#
# Networking options
#
CONFIG_PACKET=y
# CONFIG_PACKET_MMAP is not set
# CONFIG_NETLINK_DEV is not set
CONFIG_UNIX=y
# CONFIG_NET_KEY is not set
CONFIG_INET=y
CONFIG_IP_MULTICAST=y
# CONFIG_IP_ADVANCED_ROUTER is not set
# CONFIG_IP_PNP is not set
# CONFIG_NET_IPIP is not set
# CONFIG_NET_IPGRE is not set
# CONFIG_IP_MROUTE is not set
# CONFIG_ARPD is not set
# CONFIG_INET_ECN 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
```

Linux-Kernel: libata strangeness in 2.6.2-mm1 based kernel

```
# CONFIG_IPV6 is not set
# CONFIG_DECNET is not set
# CONFIG_BRIDGE is not set
# CONFIG_NETFILTER is not set

#
# SCTP Configuration (EXPERIMENTAL)
#
CONFIG_IPV6_SCTP__=y
# CONFIG_IP_SCTP is not set
# CONFIG_ATM is not set
# CONFIG_VLAN_8021Q 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_NET_DIVERT is not set
# CONFIG_ECONET is not set
# CONFIG_WAN_ROUTER is not set
# CONFIG_NET_FASTROUTE is not set
# CONFIG_NET_HW_FLOWCONTROL is not set

#
# QoS and/or fair queueing
#
# CONFIG_NET_SCHED is not set

#
# Network testing
#
# CONFIG_NET_PKTGEN is not set
CONFIG_NETDEVICES=y

#
# ARCnet devices
#
# CONFIG_ARCNET is not set
CONFIG_DUMMY=y
# CONFIG_BONDING is not set
# CONFIG_EQUALIZER is not set
# CONFIG_TUN is not set
# CONFIG_NET_SB1000 is not set

#
# Ethernet (10 or 100Mbit)
#
CONFIG_NET_ETHERNET=y
# CONFIG_MII is not set
# CONFIG_HAPPYMEAL is not set
# CONFIG_SUNGEM is not set
```

Linux–Kernel: libata strangeness in 2.6.2–mm1 based kernel

```
# 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
```

```
#
# Tulip family network device support
#
# 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_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=y
# CONFIG_CS89x0 is not set
# CONFIG_DGRS is not set
# CONFIG_EEPRO100 is not set
# CONFIG_E100 is not set
# CONFIG_FEALNX is not set
# CONFIG_NATSEMI is not set
# CONFIG_NE2K_PCI is not set
# CONFIG_8139CP is not set
# CONFIG_8139TOO 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_NET_POCKET is not set
```

```
#
# Ethernet (1000 Mbit)
#
# CONFIG_ACENIC is not set
# CONFIG_DL2K is not set
# CONFIG_E1000 is not set
# CONFIG_NS83820 is not set
# CONFIG_HAMACHI is not set
# CONFIG_YELLOWFIN is not set
# CONFIG_R8169 is not set
# CONFIG_SIS190 is not set
# CONFIG_SK98LIN is not set
# CONFIG_TIGON3 is not set
```

Linux–Kernel: libata strangeness in 2.6.2–mm1 based kernel

```
#  
# Ethernet (10000 Mbit)  
#  
# CONFIG_IXGB is not set  
# CONFIG_FDDI is not set  
# CONFIG_HIPPI is not set  
# CONFIG_PPP is not set  
# CONFIG_SLIP is not set  
  
#  
# Wireless LAN (non-hamradio)  
#  
# CONFIG_NET_RADIO is not set  
  
#  
# Token Ring devices  
#  
# CONFIG_TR is not set  
# CONFIG_NET_FC is not set  
# CONFIG_RCPCI is not set  
# CONFIG_SHAPER is not set  
# CONFIG_NETCONSOLE is not set  
  
#  
# Wan interfaces  
#  
# CONFIG_WAN is not set  
  
#  
# Amateur Radio support  
#  
# CONFIG_HAMRADIO is not set  
  
#  
# IrDA (infrared) support  
#  
# CONFIG_IRDA is not set  
  
#  
# Bluetooth support  
#  
# CONFIG_BT is not set  
# CONFIG_KGDBOE is not set  
# CONFIG_NETPOLL is not set  
# CONFIG_NETPOLL_RX is not set  
# CONFIG_NETPOLL_TRAP is not set  
# CONFIG_NET_POLL_CONTROLLER is not set  
  
#  
# ISDN subsystem  
#
```

Linux-Kernel: libata strangeness in 2.6.2-mm1 based kernel

```
# CONFIG_ISDN_BOOL is not set

#
# Telephony Support
#
# CONFIG_PHONE is not set

#
# Input device support
#
CONFIG_INPUT=y

#
# Userland interfaces
#
CONFIG_INPUT_MOUSEDEV=y
CONFIG_INPUT_MOUSEDEV_PSAUX=y
CONFIG_INPUT_MOUSEDEV_SCREEN_X=1280
CONFIG_INPUT_MOUSEDEV_SCREEN_Y=1024
# CONFIG_INPUT_JOYDEV is not set
# CONFIG_INPUT_TSDEV is not set
CONFIG_INPUT_EVDEV=y
# CONFIG_INPUT_EVBUG is not set

#
# Input I/O drivers
#
# CONFIG_GAMEPORT is not set
CONFIG_SOUND_GAMEPORT=y
CONFIG_SERIO=y
CONFIG_SERIO_I8042=y
# CONFIG_SERIO_SERPORT is not set
# CONFIG_SERIO_CT82C710 is not set
# CONFIG_SERIO_PCIPS2 is not set

#
# Input Device Drivers
#
CONFIG_INPUT_KEYBOARD=y
CONFIG_KEYBOARD_ATKBD=y
# CONFIG_KEYBOARD_SUNKBD is not set
# CONFIG_KEYBOARD_XTKBD is not set
# CONFIG_KEYBOARD_NEWTON is not set
CONFIG_INPUT_MOUSE=y
CONFIG_MOUSE_PS2=y
# CONFIG_MOUSE_SERIAL is not set
# CONFIG_MOUSE_INPORT is not set
# CONFIG_MOUSE_LOGIBM is not set
# CONFIG_MOUSE_PC110PAD is not set
# CONFIG_INPUT_JOYSTICK is not set
# CONFIG_INPUT_TOUCHSCREEN is not set
```

Linux-Kernel: libata strangeness in 2.6.2-mm1 based kernel

```
# CONFIG_INPUT_MISC is not set

#
# Character devices
#
CONFIG_VT=y
CONFIG_VT_CONSOLE=y
CONFIG_HW_CONSOLE=y
# CONFIG_SERIAL_NONSTANDARD is not set

#
# Serial drivers
#
CONFIG_SERIAL_8250=y
# CONFIG_SERIAL_8250_CONSOLE is not set
# CONFIG_SERIAL_8250_ACPI is not set
CONFIG_SERIAL_8250_NR_UARTS=4
# CONFIG_SERIAL_8250_EXTENDED is not set

#
# Non-8250 serial port support
#
CONFIG_SERIAL_CORE=y
CONFIG_UNIX98_PTYS=y
CONFIG_UNIX98_PTY_COUNT=256
# CONFIG_QIC02_TAPE is not set

#
# IPMI
#
# CONFIG_IPMI_HANDLER is not set

#
# Watchdog Cards
#
# CONFIG_WATCHDOG is not set

#
# Linux InfraRed Controller
#
# CONFIG_LIRC_SUPPORT is not set
# CONFIG_HW_RANDOM is not set
CONFIG_NVRAM=y
CONFIG_RTC=y
# CONFIG_DTLK is not set
# CONFIG_R3964 is not set
# CONFIG_APPLICOM is not set
# CONFIG_SONYPI is not set

#
# Ftape, the floppy tape device driver
```

Linux–Kernel: libata strangeness in 2.6.2–mm1 based kernel

```
#  
# CONFIG_FTAPE is not set  
# CONFIG_AGP is not set  
# CONFIG_DRM is not set  
# CONFIG_MWAVE is not set  
# CONFIG_RAW_DRIVER is not set  
# CONFIG_HANGCHECK_TIMER is not set
```

```
#  
# I2C support  
#  
CONFIG_I2C=y  
CONFIG_I2C_CHARDEV=y
```

```
#  
# I2C Algorithms  
#  
CONFIG_I2C_ALGOBIT=y  
# CONFIG_I2C_ALGOPCF is not set
```

```
#  
# I2C Hardware Bus support  
#  
# CONFIG_I2C_ALI1535 is not set  
# CONFIG_I2C_ALI15X3 is not set  
# CONFIG_I2C_AMD756 is not set  
# CONFIG_I2C_AMD8111 is not set  
# CONFIG_I2C_ELEKTOR is not set  
# CONFIG_I2C_ELIV is not set  
# CONFIG_I2C_I801 is not set  
# CONFIG_I2C_I810 is not set  
# CONFIG_I2C_ISA is not set  
CONFIG_I2C_NFORCE2=y  
# CONFIG_I2C_PARPORT_LIGHT is not set  
# CONFIG_I2C_PIIX4 is not set  
# CONFIG_I2C_PROSAVAGE is not set  
# CONFIG_I2C_SAVAGE4 is not set  
# CONFIG_SCx200_ACB is not set  
# CONFIG_I2C_SIS5595 is not set  
# CONFIG_I2C_SIS630 is not set  
# CONFIG_I2C_SIS96X is not set  
# CONFIG_I2C_VELLEMAN is not set  
# CONFIG_I2C_VIA is not set  
# CONFIG_I2C_VIAPRO is not set  
# CONFIG_I2C_VOODOO3 is not set
```

```
#  
# I2C Hardware Sensors Chip support  
#  
CONFIG_I2C_SENSOR=y  
# CONFIG_SENSORS_ADM1021 is not set
```

Linux–Kernel: libata strangeness in 2.6.2–mm1 based kernel

```
# CONFIG_SENSORS_ASB100 is not set
# CONFIG_SENSORS_EEPROM is not set
# CONFIG_SENSORS_GL518SM is not set
# CONFIG_SENSORS_IT87 is not set
CONFIG_SENSORS_LM75=y
# CONFIG_SENSORS_LM78 is not set
# CONFIG_SENSORS_LM83 is not set
# CONFIG_SENSORS_LM85 is not set
# CONFIG_SENSORS_LM90 is not set
# CONFIG_SENSORS_VIA686A is not set
CONFIG_SENSORS_W83781D=y
# CONFIG_SENSORS_W83L785TS is not set
# CONFIG_I2C_DEBUG_CORE is not set
# CONFIG_I2C_DEBUG_BUS is not set
# CONFIG_I2C_DEBUG_CHIP is not set

#
# Multimedia devices
#
# CONFIG_VIDEO_DEV is not set

#
# Digital Video Broadcasting Devices
#
CONFIG_DVB=y
CONFIG_DVB_CORE=y

#
# Supported Frontend Modules
#
# CONFIG_DVB_TWINHAN_DST is not set
# CONFIG_DVB_STV0299 is not set
# CONFIG_DVB_SP887X is not set
# CONFIG_DVB_ALPS_TDLB7 is not set
# CONFIG_DVB_ALPS_TDMB7 is not set
# CONFIG_DVB_ATMEL_AT76C651 is not set
# CONFIG_DVB_CX24110 is not set
# CONFIG_DVB_GRUNDIG_29504_491 is not set
# CONFIG_DVB_GRUNDIG_29504_401 is not set
CONFIG_DVB_MT312=y
# CONFIG_DVB_VES1820 is not set
# CONFIG_DVB_VES1X93 is not set
# CONFIG_DVB_TDA1004X is not set

#
# Supported SAA7146 based PCI Adapters
#
# CONFIG_DVB_AV7110 is not set
# CONFIG_DVB_BUDGET is not set
# CONFIG_DVB_BUDGET_CI is not set
# CONFIG_DVB_BUDGET_AV is not set
```

Linux–Kernel: libata strangeness in 2.6.2–mm1 based kernel

```
#  
# Supported USB Adapters  
#  
# CONFIG_DVB_TTUSB_BUDGET is not set  
# CONFIG_DVB_TTUSB_DEC is not set
```

```
#  
# Supported FlexCopII (B2C2) Adapters  
#  
CONFIG_DVB_B2C2_SKYSTAR=y
```

```
#  
# Supported BT878 Adapters  
#
```

```
#  
# Hollywood Plus / DXR3  
#  
# CONFIG_DXR3 is not set
```

```
#  
# Graphics support  
#  
CONFIG_FB=y  
# CONFIG_FB_CIRRUS is not set  
# CONFIG_FB_PM2 is not set  
# CONFIG_FB_CYBER2000 is not set  
# CONFIG_FB_IMSTT is not set  
# CONFIG_FB_VGA16 is not set  
CONFIG_FB_VESA=y  
CONFIG_VIDEO_SELECT=y  
# CONFIG_FB_HGA is not set  
# CONFIG_FB_RIVA 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_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_TRIDENT is not set  
# CONFIG_FB_PM3 is not set  
# CONFIG_FB_VIRTUAL is not set
```

```
#  
# Console display driver support  
#  
CONFIG_VGA_CONSOLE=y  
# CONFIG_MDA_CONSOLE is not set
```

Linux–Kernel: libata strangeness in 2.6.2–mm1 based kernel

```
CONFIG_DUMMY_CONSOLE=y
CONFIG_FRAMEBUFFER_CONSOLE=y
CONFIG_PCI_CONSOLE=y
# CONFIG_FONTS is not set
CONFIG_FONT_8x8=y
CONFIG_FONT_8x16=y

#
# Logo configuration
#
CONFIG_LOGO=y
# CONFIG_LOGO_LINUX_MONO is not set
# CONFIG_LOGO_LINUX_VGA16 is not set
CONFIG_LOGO_LINUX_CLUT224=y

#
# Bootsplash configuration
#
CONFIG_BOOTSPASH=y

#
# Sound
#
CONFIG_SOUND=y

#
# Advanced Linux Sound Architecture
#
CONFIG_SND=y
CONFIG_SND_SEQUENCER=y
# CONFIG_SND_SEQ_DUMMY is not set
CONFIG_SND_OSSEMUL=y
CONFIG_SND_MIXER_OSS=y
CONFIG_SND_PCM_OSS=y
CONFIG_SND_SEQUENCER_OSS=y
CONFIG_SND_RTCTIMER=y
# CONFIG_SND_VERBOSE_PRINTK is not set
# CONFIG_SND_DEBUG is not set

#
# Generic devices
#
# CONFIG_SND_DUMMY is not set
# CONFIG_SND_VIRMIDI is not set
# CONFIG_SND_MTPAV is not set
# CONFIG_SND_SERIAL_U16550 is not set
# CONFIG_SND_MPU401 is not set

#
# ISA devices
#
```

Linux-Kernel: libata strangeness in 2.6.2-mm1 based kernel

```
# CONFIG_SND_AD1848 is not set
# CONFIG_SND_CS4231 is not set
# CONFIG_SND_CS4232 is not set
# CONFIG_SND_CS4236 is not set
# CONFIG_SND_ES1688 is not set
# CONFIG_SND_ES18XX is not set
# CONFIG_SND_GUSCLASSIC is not set
# CONFIG_SND_GUSEXTREME is not set
# CONFIG_SND_GUSMAX is not set
# CONFIG_SND_INTERWAVE is not set
# CONFIG_SND_INTERWAVE_STB is not set
# CONFIG_SND_OPTI92X_AD1848 is not set
# CONFIG_SND_OPTI92X_CS4231 is not set
# CONFIG_SND_OPTI93X is not set
# CONFIG_SND_SB8 is not set
# CONFIG_SND_SB16 is not set
# CONFIG_SND_SBAWE is not set
# CONFIG_SND_WAVEFRONT is not set
# CONFIG_SND_CMI8330 is not set
# CONFIG_SND_OPL3SA2 is not set
# CONFIG_SND_SGALAXY is not set
# CONFIG_SND_SSCAPE is not set

#
# PCI devices
#
# CONFIG_SND_ALI5451 is not set
# CONFIG_SND_AZT3328 is not set
# CONFIG_SND_CS46XX is not set
# CONFIG_SND_CS4281 is not set
# CONFIG_SND_EMU10K1 is not set
# CONFIG_SND_KORG1212 is not set
# CONFIG_SND_NM256 is not set
# CONFIG_SND_RME32 is not set
# CONFIG_SND_RME96 is not set
# CONFIG_SND_RME9652 is not set
# CONFIG_SND_HDSP is not set
# CONFIG_SND_TRIDENT is not set
# CONFIG_SND_YMFPCI is not set
# CONFIG_SND_ALS4000 is not set
# CONFIG_SND_CMIPCI 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_MAESTRO3 is not set
# CONFIG_SND_FM801 is not set
# CONFIG_SND_ICE1712 is not set
# CONFIG_SND_ICE1724 is not set
CONFIG_SND_INTEL8X0=y
# CONFIG_SND_SONICVIBES is not set
```

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```
# CONFIG_SND_VIA82XX is not set
# CONFIG_SND_VX222 is not set

#
# ALSA USB devices
#
# CONFIG_SND_USB_AUDIO is not set

#
# Open Sound System
#
# CONFIG_SOUND_PRIME is not set

#
# USB support
#
CONFIG_USB=m
# CONFIG_USB_DEBUG is not set

#
# Miscellaneous USB options
#
CONFIG_USB_DEVICEFS=y
# CONFIG_USB_BANDWIDTH is not set
# CONFIG_USB_DYNAMIC_MINORS is not set

#
# USB Host Controller Drivers
#
CONFIG_USB_EHCI_HCD=m
CONFIG_USB_OHCI_HCD=m
# CONFIG_USB_UHCI_HCD is not set

#
# USB Device Class drivers
#
# CONFIG_USB_AUDIO is not set
# CONFIG_USB_BLUETOOTH_TTY is not set
# CONFIG_USB_MIDI is not set
# CONFIG_USB_ACM is not set
CONFIG_USB_PRINTER=m
# CONFIG_USB_STORAGE is not set

#
# USB Human Interface Devices (HID)
#
# CONFIG_USB_HID is not set

#
# USB HID Boot Protocol drivers
#
```

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```
# CONFIG_USB_KBD is not set
# CONFIG_USB_MOUSE is not set
# CONFIG_USB_AIPTEK is not set
# CONFIG_USB_WACOM is not set
# CONFIG_USB_KBTAB is not set
# CONFIG_USB_POWERMATE is not set
# CONFIG_USB_XPAD is not set

#
# USB Imaging devices
#
# CONFIG_USB_MDC800 is not set
# CONFIG_USB_SCANNER is not set
# CONFIG_USB_MICROTEK is not set
# CONFIG_USB_HPUSBSCSI is not set

#
# USB Multimedia devices
#
# CONFIG_USB_DABUSB is not set

#
# Video4Linux support is needed for USB Multimedia device support
#

#
# USB Network adaptors
#
# 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

#
# USB port drivers
#

#
# USB Serial Converter support
#
# CONFIG_USB_SERIAL is not set

#
# USB Miscellaneous drivers
#
# CONFIG_USB_EMI62 is not set
# CONFIG_USB_EMI26 is not set
# CONFIG_USB_TIGL is not set
# CONFIG_USB_AUERSWALD is not set
# CONFIG_USB_RIO500 is not set
```

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```
# CONFIG_USB_LEGOTOWER is not set
# CONFIG_USB_BRLVGER is not set
# CONFIG_USB_LCD is not set
# CONFIG_USB_LED is not set
# CONFIG_USB_TEST is not set

#
# USB Gadget Support
#
# CONFIG_USB_GADGET is not set

#
# File systems
#
CONFIG_EXT2_FS=y
# CONFIG_EXT2_FS_XATTR is not set
# CONFIG_EXT3_FS is not set
# CONFIG_JBD is not set
CONFIG_REISER4_FS=y
# CONFIG_REISER4_FS_SYSCALL is not set
CONFIG_REISER4_LARGE_KEY=y
# CONFIG_REISER4_CHECK is not set
CONFIG_REISER4_USE_EFLUSH=y
# CONFIG_REISER4_COPY_ON_CAPTURE is not set
# CONFIG_REISER4_BADBLOCKS is not set
CONFIG_REISERFS_FS=y
# CONFIG_REISERFS_CHECK is not set
# CONFIG_REISERFS_PROC_INFO is not set
# CONFIG_JFS_FS is not set
CONFIG_FS_POSIX_ACL=y
# CONFIG_XFS_FS is not set
# CONFIG_MINIX_FS is not set
# CONFIG_ROMFS_FS is not set
# CONFIG_QUOTA is not set
# CONFIG_AUTOFS_FS is not set
CONFIG_AUTOFS4_FS=y

#
# CD-ROM/DVD Filesystems
#
CONFIG_ISO9660_FS=y
CONFIG_JOLIET=y
CONFIG_ZISOFS=y
CONFIG_ZISOFS_FS=y
CONFIG_UDF_FS=y

#
# DOS/FAT/NT Filesystems
#
CONFIG_FAT_FS=y
CONFIG_MSDFS_FS=y
```

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```
CONFIG_VFAT_FS=y
CONFIG_NTFS_FS=y
# CONFIG_NTFS_DEBUG is not set
CONFIG_NTFS_RW=y

#
# Pseudo filesystems
#
CONFIG_PROC_FS=y
CONFIG_PROC_KCORE=y
CONFIG_SYSFS=y
# CONFIG_DEVFS_FS is not set
CONFIG_DEVPTS_FS=y
# CONFIG_DEVPTS_FS_XATTR is not set
CONFIG_TMPFS=y
# CONFIG_HUGETLBFS is not set
# CONFIG_HUGETLB_PAGE is not set
CONFIG_RAMFS=y

#
# Miscellaneous filesystems
#
# CONFIG_ADFS_FS is not set
# CONFIG_AFFS_FS is not set
# CONFIG_HFS_FS is not set
# CONFIG_BEFS_FS is not set
# CONFIG_BFS_FS is not set
# CONFIG_EFS_FS is not set
# CONFIG_CRAMFS is not set
# CONFIG_VXFS_FS is not set
# CONFIG_HPFS_FS is not set
# CONFIG_QNX4FS_FS is not set
# CONFIG_SYSV_FS is not set
# CONFIG_UFS_FS is not set
# CONFIG_LUFS_FS is not set

#
# Network File Systems
#
CONFIG_NFS_FS=y
# CONFIG_NFS_V3 is not set
# CONFIG_NFS_V4 is not set
# CONFIG_NFS_DIRECTIO is not set
CONFIG_NFSD=y
# CONFIG_NFSD_V3 is not set
# CONFIG_NFSD_TCP is not set
CONFIG_LOCKD=y
CONFIG_EXPORTFS=y
CONFIG_SUNRPC=y
# CONFIG_SUNRPC_GSS is not set
CONFIG_SMB_FS=y
```

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```
# CONFIG_SMB_NLS_DEFAULT is not set
# CONFIG_CIFS is not set
# CONFIG_NCP_FS is not set
# CONFIG_CODA_FS is not set
# CONFIG_INTERMEZZO_FS is not set
# CONFIG_AFS_FS is not set

#
# Partition Types
#
# CONFIG_PARTITION_ADVANCED is not set
CONFIG_MSDOS_PARTITION=y

#
# Native Language Support
#
CONFIG_NLS=y
CONFIG_NLS_DEFAULT="iso8859-1"
CONFIG_NLS_CODEPAGE_437=y
# CONFIG_NLS_CODEPAGE_737 is not set
# CONFIG_NLS_CODEPAGE_775 is not set
CONFIG_NLS_CODEPAGE_850=y
# CONFIG_NLS_CODEPAGE_852 is not set
# 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 is not set
# CONFIG_NLS_CODEPAGE_1251 is not set
CONFIG_NLS_ISO8859_1=y
# CONFIG_NLS_ISO8859_2 is not set
# 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
```

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```
# CONFIG_NLS_ISO8859_15 is not set
# CONFIG_NLS_KOI8_R is not set
# CONFIG_NLS_KOI8_U is not set
CONFIG_NLS_UTF8=y

#
# Profiling support
#
# CONFIG_PROFILING is not set

#
# Kernel hacking
#
# CONFIG_DEBUG_KERNEL is not set
# CONFIG_DEBUG_SPINLOCK_SLEEP is not set
# CONFIG_FRAME_POINTER is not set
CONFIG_X86_FIND_SMP_CONFIG=y
CONFIG_X86_MPPARSE=y

#
# Security options
#
# CONFIG_SECURITY is not set

#
# Cryptographic options
#
# CONFIG_CRYPTO is not set

#
# Library routines
#
CONFIG_CRC32=y
CONFIG_ZLIB_INFLATE=y
CONFIG_X86_BIOS_REBOOT=y
CONFIG_PC=y
```

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