

## CDROM read error "recovery"

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2003-10/6386.html>

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**Date:** 10/31/03

Date: Thu, 30 Oct 2003 19:19:45 -0800

To: linux-kernel@vger.kernel.org

Linux version 2.6.0-test8 (root@dave) (gcc version 3.2.2) #5 Sat Oct 25 20:41:41 PDT 2003

IDE dvd drive (hdd) accessed using scsi emulation as /dev/sc0

I've put in a cdrw copy of slackware 9.1 disk 1 in the drive (dvd drive).

I did

```
dd if=/dev/sr0 of=slackware91a.iso bs=65536
```

Got as far as

```
-rw-r--r-- 1 root root 213319680 Oct 30 18:53 slackware91a.iso
```

Then I get these kernel messages:

hdd: DMA timeout error

hdd: dma timeout error: status=0xd0 { Busy }

hdd: DMA disabled

ide-scsi: abort called for 3653

bad: scheduling while atomic!

Call Trace:

```
[<c0117652>] schedule+0x572/0x580
[<c0117721>] __wake_up_common+0x31/0x50
[<c01227dd>] __mod_timer+0xfd/0x170
[<c012333e>] schedule_timeout+0x5e/0xb0
[<c01232d0>] process_timeout+0x0/0x10
[<c029665b>] idescsi_abort+0x9b/0x100
[<c028f502>] scsi_try_to_abort_cmd+0x62/0x80
[<c028f630>] scsi_eh_abort_cmds+0x40/0x80
[<c0290023>] scsi_unjam_host+0xa3/0xd0
[<c029012a>] scsi_error_handler+0xda/0x120
[<c0290050>] scsi_error_handler+0x0/0x120
[<c0107349>] kernel_thread_helper+0x5/0xc
```

bad: scheduling while atomic!

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[<c0117652>] schedule+0x572/0x580
[<c012333e>] schedule_timeout+0x5e/0xb0
[<c01232d0>] process_timeout+0x0/0x10
[<c029665b>] idescsi_abort+0x9b/0x100
[<c028f502>] scsi_try_to_abort_cmd+0x62/0x80
```

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```
[<c028f630>] scsi_ah_abort_cmds+0x40/0x80  
[<c0290023>] scsi_unjam_host+0xa3/0xd0  
[<c029012a>] scsi_error_handler+0xda/0x120  
[<c0290050>] scsi_error_handler+0x0/0x120  
[<c0107349>] kernel_thread_helper+0x5/0xc
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[<c0290023>] scsi_unjam_host+0xa3/0xd0  
[<c029012a>] scsi_error_handler+0xda/0x120  
[<c0290050>] scsi_error_handler+0x0/0x120  
[<c0107349>] kernel_thread_helper+0x5/0xc
```

...

hdd: ATAPI reset complete

hdd: irq timeout: status=0x80 { Busy }

hdd: status error: status=0x58 { DriveReady SeekComplete DataRequest }

hdd: drive not ready for command

ide-scsi: reset called for 3653

-----[ cut here ]-----

kernel BUG at drivers/scsi/ide-scsi.c:493!

invalid operand: 0000 [#1]

CPU: 0

EIP: 0060:[<c029587a>] Not tainted

EFLAGS: 00010282

EIP is at idescsi\_transfer\_pc+0x9a/0x120

eax: c027de80 ebx: c04af5ac ecx: 7ae12a0 edx: 00000172

esi: cd77c580 edi: cfd01fc0 ebp: cfd07e00 esp: cfd07ddc

ds: 007b es: 007b ss: 0068

Process scsi\_ah\_0 (pid: 13, threadinfo=cfd06000 task=cfd440c0)

Stack: 00000172 c04af5ac 00000008 00000080 0000001e cfd01fc0 c04af5ac cfc6d680

00000000 cfd07e2c c027a327 c04af5ac cd77c580 00000000 00000000 0000001e

0000000f cfc6d680 c04af5ac c04af350 cfd07e58 c027a681 c04af5ac cfc6d680

Call Trace:

```
[<c027a327>] start_request+0x177/0x280  
[<c027a681>] ide_do_request+0x221/0x3f0  
[<c025dec7>] __elv_add_request+0x27/0x40  
[<c027aebe>] ide_do_drive_cmd+0xce/0x150  
[<c029614c>] idescsi_queue+0x1ec/0x660  
[<c01227dd>] __mod_timer+0xfd/0x170  
[<c028f196>] scsi_send_ah_cmnd+0xa6/0x190  
[<c028f0a0>] scsi_ah_done+0x0/0x50  
[<c028f070>] scsi_ah_times_out+0x0/0x30  
[<c028f5b4>] scsi_ah_tur+0x94/0xd0
```

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## Linux-Kernel: CDROM read error "recovery"

```
[<c028f7e9>] scsi_eh_bus_device_reset+0xe9/0x120  
[<c028fec8>] scsi_eh_ready_devs+0x28/0x70  
[<c0290040>] scsi_unjam_host+0xc0/0xd0  
[<c029012a>] scsi_error_handler+0xda/0x120  
[<c0290050>] scsi_error_handler+0x0/0x120  
[<c0107349>] kernel_thread_helper+0x5/0xc
```

```
Code: 0f 0b ed 01 f6 a6 3b c0 8b 56 38 a1 40 31 3f c0 89 d1 29 c1  
hdd: ATAPI reset complete  
hdd: status error: status=0x08 { DataRequest }  
hdd: drive not ready for command  
hdd: lost interrupt  
hdd: lost interrupt  
hdd: lost interrupt
```

I can't killall -9 the process, it seems to have frozen. This is all sickly  
reminescent of 2.4's IDE system, which I thought (preyed) had been redone.  
Why not use interruptible sleep instead?

Here's what's still in dmesg:

```
>[drm:drm_init] *ERROR* Cannot initialize the agpgart module.  
Serial: 8250/16550 driver $Revision: 1.90 $ 8 ports, IRQ sharing disabled  
Using anticipatory io scheduler  
floppy0: no floppy controllers found  
loop: loaded (max 8 devices)  
via-rhine.c:v1.10-LK1.1.19-2.5 July-12-2003 Written by Donald Becker  
http://www.seyld.com/network/via-rhine.html  
eth0: VIA VT6102 Rhine-II at 0xe400, 00:50:8d:50:0b:7a, IRQ 11.  
eth0: MII PHY found at address 1, status 0x786d advertising 05e1 Link 45e1.  
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2  
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx  
VP_IDE: IDE controller at PCI slot 0000:00:11.1  
VP_IDE: chipset revision 6  
VP_IDE: not 100% native mode: will probe irqs later  
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx  
VP_IDE: VIA vt8235 (rev 00) IDE UDMA133 controller on pci0000:00:11.1  
ide0: BM-DMA at 0xe000-0xe007, BIOS settings: hda:DMA, hdb:pio  
ide1: BM-DMA at 0xe008-0xe00f, BIOS settings: hdc:DMA, hdd:DMA  
hda: Maxtor 6Y160P0, ATA DISK drive  
ide0 at 0x1f0-0x1f7,0x3f6 on irq 14  
hdc: WDC WD1600BB-00DAA0, ATA DISK drive  
hdd: ATAPI DVD-ROM, ATAPI CD/DVD-ROM drive  
ide1 at 0x170-0x177,0x376 on irq 15  
hda: max request size: 1024KiB  
hda: 320173056 sectors (163928 MB) w/7936KiB Cache, CHS=19929/255/63, UDMA(133)  
hda: hda1 hda2  
hdc: max request size: 1024KiB  
hdc: 312581808 sectors (160041 MB) w/2048KiB Cache, CHS=19457/255/63, UDMA(100)  
hdc: hdc1 hdc2  
scsi0 : SCSI host adapter emulation for IDE ATAPI devices  
Vendor: ATAPI Model: DVD-ROM STAR2000 Rev: 2,12
```

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## Linux-Kernel: CDROM read error "recovery"

```
Type: CD-ROM ANSI SCSI revision: 02
sr0: scsi3-mmc drive: 44x/44x cd/rw xa/form2 cdda tray
Uniform CD-ROM driver Revision: 3.12
Attached scsi CD-ROM sr0 at scsi0, channel 0, id 0, lun 0
Attached scsi generic sg0 at scsi0, channel 0, id 0, lun 0, type 5
ehci_hcd 0000:00:10.3: EHCI Host Controller
ehci_hcd 0000:00:10.3: irq 5, pci mem d085c000
ehci_hcd 0000:00:10.3: new USB bus registered, assigned bus number 1
ehci_hcd 0000:00:10.3: USB 2.0 enabled, EHCI 1.00, driver 2003-Jun-13
hub 1-0:1.0: USB hub found
hub 1-0:1.0: 6 ports detected
drivers/usb/host/uhci-hcd.c: USB Universal Host Controller Interface driver v2.1
uhci_hcd 0000:00:10.0: UHCI Host Controller
uhci_hcd 0000:00:10.0: irq 11, io base 0000d400
uhci_hcd 0000:00:10.0: new USB bus registered, assigned bus number 2
hub 2-0:1.0: USB hub found
hub 2-0:1.0: 2 ports detected
uhci_hcd 0000:00:10.1: UHCI Host Controller
uhci_hcd 0000:00:10.1: irq 12, io base 0000d800
uhci_hcd 0000:00:10.1: new USB bus registered, assigned bus number 3
hub 3-0:1.0: USB hub found
hub 3-0:1.0: 2 ports detected
uhci_hcd 0000:00:10.2: UHCI Host Controller
uhci_hcd 0000:00:10.2: irq 10, io base 0000dc00
uhci_hcd 0000:00:10.2: new USB bus registered, assigned bus number 4
hub 4-0:1.0: USB hub found
hub 4-0:1.0: 2 ports detected
drivers/usb/core/usb.c: registered new driver usblp
drivers/usb/class/usblp.c: v0.13: USB Printer Device Class driver
Initializing USB Mass Storage driver...
drivers/usb/core/usb.c: registered new driver usb-storage
USB Mass Storage support registered.
drivers/usb/core/usb.c: registered new driver hid
drivers/usb/input/hid-core.c: v2.0:USB HID core driver
mouse: PS/2 mouse device common for all mice
serio: i8042 AUX port at 0x60,0x64 irq 12
input: AT Translated Set 2 keyboard on isa0060/serio0
serio: i8042 KBD port at 0x60,0x64 irq 1
i2c /dev entries driver
Advanced Linux Sound Architecture Driver Version 0.9.7 (Thu Sep 25 19:16:36 2003
UTC).
request_module: failed /sbin/modprobe -- snd-card-0. error = -16
ALSA device list:
 #0: C-Media PCI CMI8738 (model 37) at 0xd000, irq 12
NET: Registered protocol family 2
IP: routing cache hash table of 2048 buckets, 16Kbytes
TCP: Hash tables configured (established 16384 bind 32768)
NET: Registered protocol family 1
NET: Registered protocol family 17
UDF-fs DEBUG fs/udf/lowlevel.c:65:udf_get_last_session: CDROMMULTISESSION not su
pported: rc=-22
```

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## Linux-Kernel: CDROM read error "recovery"

UDF-fs DEBUG fs/udf/super.c:1544:udf\_fill\_super: Multi-session=0  
UDF-fs DEBUG fs/udf/super.c:532:udf\_vrs: Starting at sector 16 (2048 byte sector  
s)  
UDF-fs: No VRS found  
VFS: Mounted root (jfs filesystem) readonly.  
Freeing unused kernel memory: 136k freed  
hub 2-0:1.0: new USB device on port 1, assigned address 2  
input: USB HID v1.10 Mouse [Logitech USB-PS/2 Optical Mouse] on usb-0000:00:10.0  
-1  
eth0: Setting full-duplex based on MII #1 link partner capability of 45e1.

Hope this is of some use.

-Dave

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