

Usb problems on 7.0 RELEASE

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2008-03/msg00159.html>

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 - *Date:* Tue, 04 Mar 2008 21:16:25 -0600
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Earlier I reported usb problems on this list. Since then I have recompiled the kernel and world three times, each time including the latest changes in src.

```
# uname -a
```

```
FreeBSD hostname.utdallas.edu 7.0-RELEASE FreeBSD 7.0-RELEASE #3: Tue Mar 4 15:19:51 CST 2008  
root@xxxxxxxxxxxxxxxxxxxxxx:/usr/obj/usr/src/sys/GENERIC i386
```

Today I discovered something interesting. The /etc/devd.conf file was missing a double quote on line 103 and exiting without an error. Once I fixed that, I was able to get sysmouse to work in X for the first time (instead of having to enable moused in /etc/rc.conf).

The other problem I've been having is that, if a umass device is connected during boot, the system simply freezes. After boot, I can attach the devices fine.

After fixing the problem in devd.conf, I got error messages for the first time during the boot sequence.

```
umass0: BBB reset failed, TIMEOUT  
umass0: BBB bulk-in clear stall failed, TIMEOUT  
umass0: BBB bulk-out clear stall failed, TIMEOUT
```

If I disconnect the device and reboot, the system comes up normally. Then I can connect the devices and (for the first time) see messages in /var/log/messages and on the console showing the devices attaching and detaching. So, obviously the devd.conf problem was causing some of the problems, but I'm still having the problem with attached umass devices during boot. (Even a thumb drive will cause the problem.)

Here's my dmesg.boot:

```
# cat /var/run/dmesg.boot
```

```
Copyright (c) 1992-2008 The FreeBSD Project.
```

```
Copyright (c) 1979, 1980, 1983, 1986, 1988, 1989, 1991, 1992, 1993, 1994
```

```
The Regents of the University of California. All rights reserved.
```

```
FreeBSD is a registered trademark of The FreeBSD Foundation.
```

```
FreeBSD 7.0-RELEASE #3: Tue Mar 4 15:19:51 CST 2008
```

```
root@xxxxxxxxxxxxxxxxxxxxxx:/usr/obj/usr/src/sys/GENERIC
```

```
Timecounter "i8254" frequency 1193182 Hz quality 0
```

```
CPU: Intel(R) Core(TM)2 Quad CPU Q6700 @ 2.66GHz (2660.01-MHz 686-class CPU)
```

```
Origin = "GenuineIntel" Id = 0x6fb Stepping = 11
```

```
Features=0xbfebfbff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,APIC,SEP,MTRR,PGE,MCA,CMOV,PAT,PSE
```

```
Features2=0xe3bd<SSE3,RSVD2,MON,DS_CPL,VMX,EST,TM2,SSSE3,CX16,xTPR,PDCM>
```

Usb problems on 7.0 RELEASE

AMD Features=0x20100000<NX,LM>
AMD Features2=0x1<LAHF>
Cores per package: 4
real memory = 3487559680 (3325 MB)
avail memory = 3408371712 (3250 MB)
ACPI APIC Table: <DELL B9K >
FreeBSD/SMP: Multiprocessor System Detected: 4 CPUs
cpu0 (BSP): APIC ID: 0
cpu1 (AP): APIC ID: 1
cpu2 (AP): APIC ID: 2
cpu3 (AP): APIC ID: 3
ioapic0: Changing APIC ID to 8
ioapic0 <Version 2.0> irqs 0-23 on motherboard
lapic0: Forcing LINT1 to edge trigger
kbd1 at kbdmux0
ath_hal: 0.9.20.3 (AR5210, AR5211, AR5212, RF5111, RF5112, RF2413, RF5413)
hptrr: HPT RocketRAID controller driver v1.1 (Mar 4 2008 15:19:40)
acpi0: <DELL B9K > on motherboard
acpi0: [ITHREAD]
acpi0: Power Button (fixed)
Timecounter "ACPI-fast" frequency 3579545 Hz quality 1000
acpi_timer0: <24-bit timer at 3.579545MHz> port 0x808-0x80b on acpi0
acpi_hpet0: <High Precision Event Timer> iomem 0xfed00000-0xfed003ff on acpi0
Timecounter "HPET" frequency 14318180 Hz quality 900
cpu0: <ACPI CPU> on acpi0
est0: <Enhanced SpeedStep Frequency Control> on cpu0
p4tcc0: <CPU Frequency Thermal Control> on cpu0
cpu1: <ACPI CPU> on acpi0
est1: <Enhanced SpeedStep Frequency Control> on cpu1
p4tcc1: <CPU Frequency Thermal Control> on cpu1
cpu2: <ACPI CPU> on acpi0
est2: <Enhanced SpeedStep Frequency Control> on cpu2
p4tcc2: <CPU Frequency Thermal Control> on cpu2
cpu3: <ACPI CPU> on acpi0
est3: <Enhanced SpeedStep Frequency Control> on cpu3
p4tcc3: <CPU Frequency Thermal Control> on cpu3
acpi_button0: <Power Button> on acpi0
pcib0: <ACPI Host-PCI bridge> port 0xcf8-0xcff on acpi0
pci0: <ACPI PCI bus> on pcib0
pcib1: <ACPI PCI-PCI bridge> irq 16 at device 1.0 on pci0
pci1: <ACPI PCI bus> on pcib1
vgapci0: <VGA-compatible display> port 0xdc00-0xdcff mem
0xd0000000-0xdfffffff,0xfe9f0000-0xfe9fffff irq 16 at device 0.0 on pci1
pci0: <simple comms> at device 3.0 (no driver attached)
atapci0: <Intel ATA controller> port
0xfe80-0xfe87,0xfe90-0xfe93,0xfea0-0xfea7,0xfeb0-0xfeb3,0xfef0-0xfef7 irq 18 at device 3.2 on pci0
atapci0: [ITHREAD]
ata2: <ATA channel 0> on atapci0
ata2: [ITHREAD]
ata3: <ATA channel 1> on atapci0
ata3: [ITHREAD]

Usb problems on 7.0 RELEASE

pci0: <simple comms, UART> at device 3.3 (no driver attached)
em0: <Intel(R) PRO/1000 Network Connection Version – 6.7.3> port 0xecc0–0xecdf mem 0xfebe0000–0xfebffff,0xfebdb000–0xfebdbfff irq 21 at device 25.0 on pci0
em0: Using MSI interrupt
em0: Ethernet address: 00:1e:4f:f3:75:95
em0: [FILTER]
uhci0: <UHCI (generic) USB controller> port 0xff20–0xff3f irq 16 at device 26.0 on pci0
uhci0: [GIANT–LOCKED]
uhci0: [ITHREAD]
usb0: <UHCI (generic) USB controller> on uhci0
usb0: USB revision 1.0
uhub0: <Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1> on usb0
uhub0: 2 ports with 2 removable, self powered
uhci1: <UHCI (generic) USB controller> port 0xff00–0xff1f irq 17 at device 26.1 on pci0
uhci1: [GIANT–LOCKED]
uhci1: [ITHREAD]
usb1: <UHCI (generic) USB controller> on uhci1
usb1: USB revision 1.0
uhub1: <Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1> on usb1
uhub1: 2 ports with 2 removable, self powered
ehci0: <EHCI (generic) USB 2.0 controller> mem 0xfebd9c00–0xfebd9fff irq 22 at device 26.7 on pci0
ehci0: [GIANT–LOCKED]
ehci0: [ITHREAD]
usb2: EHCI version 1.0
usb2: wrong number of companions (3 != 2)
usb2: companion controllers, 2 ports each: usb0 usb1
usb2: <EHCI (generic) USB 2.0 controller> on ehci0
usb2: USB revision 2.0
uhub2: <Intel EHCI root hub, class 9/0, rev 2.00/1.00, addr 1> on usb2
uhub2: 6 ports with 6 removable, self powered
uhub3: <vendor 0x0424 product 0x2504, class 9/0, rev 2.00/0.01, addr 2> on uhub2
uhub3: multiple transaction translators
uhub3: 4 ports with 4 removable, self powered
ums0: <vendor 0x0461 USB Optical Mouse, class 0/0, rev 2.00/2.00, addr 3> on uhub3
ums0: 3 buttons and Z dir.
ukbd0: <vendor 0x045e Microsoft Natural Keyboard Elite, class 0/0, rev 2.00/2.07, addr 4> on uhub3
kbd2 at ukbd0
pcm0: <Intel 82801I High Definition Audio Controller> mem 0xfebdc000–0xfebdffff irq 16 at device 27.0 on pci0
pcm0: [ITHREAD]
pcib2: <ACPI PCI–PCI bridge> irq 16 at device 28.0 on pci0
pci2: <ACPI PCI bus> on pcib2
uhci2: <UHCI (generic) USB controller> port 0xff80–0xff9f irq 23 at device 29.0 on pci0
uhci2: [GIANT–LOCKED]
uhci2: [ITHREAD]
usb3: <UHCI (generic) USB controller> on uhci2
usb3: USB revision 1.0
uhub4: <Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1> on usb3
uhub4: 2 ports with 2 removable, self powered
uhci3: <UHCI (generic) USB controller> port 0xff60–0xff7f irq 17 at device 29.1 on pci0
uhci3: [GIANT–LOCKED]

Usb problems on 7.0 RELEASE

uhci3: [IThread]
usb4: <UHCI (generic) USB controller> on uhci3
usb4: USB revision 1.0
uhub5: <Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1> on usb4
uhub5: 2 ports with 2 removable, self powered
uhci4: <UHCI (generic) USB controller> port 0xff40-0xff5f irq 18 at device 29.2 on pci0
uhci4: [GIANT-LOCKED]
uhci4: [IThread]
usb5: <UHCI (generic) USB controller> on uhci4
usb5: USB revision 1.0
uhub6: <Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1> on usb5
uhub6: 2 ports with 2 removable, self powered
ehci1: <EHCI (generic) USB 2.0 controller> mem 0xff980800-0xff980bff irq 23 at device 29.7 on pci0
ehci1: [GIANT-LOCKED]
ehci1: [IThread]
usb6: EHCI version 1.0
usb6: companion controllers, 2 ports each: usb3 usb4 usb5
usb6: <EHCI (generic) USB 2.0 controller> on ehci1
usb6: USB revision 2.0
uhub7: <Intel EHCI root hub, class 9/0, rev 2.00/1.00, addr 1> on usb6
uhub7: 6 ports with 6 removable, self powered
pcib3: <ACPI PCI-PCI bridge> at device 30.0 on pci0
pci3: <ACPI PCI bus> on pcib3
fwohci0: <Lucent FW322/323> mem 0xfe7ff000-0xfe7fffff irq 18 at device 2.0 on pci3
fwohci0: [FILTER]
fwohci0: OHCI version 1.0 (ROM=1)
fwohci0: No. of Isochronous channels is 8.
fwohci0: EUI64 00:00:d1:00:80:b0:bd:1e
fwohci0: Phy 1394a available S400, 3 ports.
fwohci0: Link S400, max_rec 2048 bytes.
firewire0: <IEEE1394(FireWire) bus> on fwohci0
fwe0: <Ethernet over FireWire> on firewire0
if_fwe0: Fake Ethernet address: 02:00:d1:b0:bd:1e
fwe0: Ethernet address: 02:00:d1:b0:bd:1e
fwip0: <IP over FireWire> on firewire0
fwip0: Firewire address: 00:00:d1:00:80:b0:bd:1e @ 0xffffe0000000, S400, maxrec 2048
sbp0: <SBP-2/SCSI over FireWire> on firewire0
dcons_crom0: <dcons configuration ROM> on firewire0
dcons_crom0: bus_addr 0xcc050000
fwohci0: Initiate bus reset
fwohci0: BUS reset
fwohci0: node_id=0xc800ffc0, gen=1, CYCLEMASTER mode
isab0: <PCI-ISA bridge> at device 31.0 on pci0
isa0: <ISA bus> on isab0
atapci1: <Intel AHCI controller> port
0xfe00-0xfe07,0xfe10-0xfe13,0xfe20-0xfe27,0xfe30-0xfe33,0xfec0-0xfedf mem 0xff970000-0xff9707ff
irq 18 at device 31.2 on pci0
atapci1: [IThread]
atapci1: AHCI Version 01.20 controller with 6 ports detected
ata4: <ATA channel 0> on atapci1
ata4: [IThread]

Usb problems on 7.0 RELEASE

ata5: <ATA channel 1> on atapci1
ata5: [ITHREAD]
ata6: <ATA channel 2> on atapci1
ata6: [ITHREAD]
ata7: <ATA channel 3> on atapci1
ata7: [ITHREAD]
ata8: <ATA channel 4> on atapci1
ata8: port not implemented
ata8: [ITHREAD]
ata9: <ATA channel 5> on atapci1
ata9: [ITHREAD]
pci0: <serial bus, SMBus> at device 31.3 (no driver attached)
fdc0: <floppy drive controller (FDE)> port 0x3f0-0x3f5,0x3f7 irq 6 drq 2 on acpi0
fdc0: [FILTER]
fd0: <1440-KB 3.5" drive> on fdc0 drive 0
sio0: <16550A-compatible COM port> port 0x3f8-0x3ff irq 4 flags 0x10 on acpi0
sio0: type 16550A
sio0: [FILTER]
pmtimer0 on isa0
orm0: <ISA Option ROMs> at iomem
0xc0000-0xcefff,0xcf000-0xd0fff,0xd1000-0xd37ff,0xd3800-0xd3fff pnpid ORM0000 on isa0
ata0 at port 0x1f0-0x1f7,0x3f6 irq 14 on isa0
ata0: [ITHREAD]
ata1 at port 0x170-0x177,0x376 irq 15 on isa0
ata1: [ITHREAD]
atkbd0: <Keyboard controller (i8042)> at port 0x60,0x64 on isa0
atkbd0: <AT Keyboard> irq 1 on atkbd0
kbd0 at atkbd0
atkbd0: [GIANT-LOCKED]
atkbd0: [ITHREAD]
ppc0: <Parallel port> at port 0x378-0x37f irq 7 on isa0
ppc0: SMC-like chipset (ECP/EPP/PS2/NIBBLE) in COMPATIBLE mode
ppc0: FIFO with 16/16/8 bytes threshold
ppbus0: <Parallel port bus> on ppc0
ppbus0: [ITHREAD]
plip0: <PLIP network interface> on ppbus0
lpt0: <Printer> on ppbus0
lpt0: Interrupt-driven port
ppi0: <Parallel I/O> on ppbus0
ppc0: [GIANT-LOCKED]
ppc0: [ITHREAD]
sc0: <System console> at flags 0x100 on isa0
sc0: VGA <16 virtual consoles, flags=0x300>
sio1: configured irq 3 not in bitmap of probed irqs 0
sio1: port may not be enabled
vga0: <Generic ISA VGA> at port 0x3c0-0x3df iomem 0xa0000-0xbffff on isa0
Timecounters tick every 1.000 msec
hptr: no controller detected.
firewire0: 1 nodes, maxhop <= 0, cable IRM = 0 (me)
firewire0: bus manager 0 (me)
ad8: 238418MB <Seagate ST3250310AS 3.ADA> at ata4-master SATA300

Usb problems on 7.0 RELEASE

```
ad10: 238418MB <Seagate ST3250310AS 3.ADA> at ata5-master SATA300
acd0: CDROM <PBDS CD-ROM DH-48N1S/BD11> at ata6-master SATA150
acd1: DVDR <Optiarc DVD+/-RW AD-5170S/101B> at ata7-master SATA150
pcm0: <HDA Codec: Analog Devices AD1984>
pcm0: <HDA Driver Revision: 20071129_0050>
lapic1: Forcing LINT1 to edge trigger
SMP: AP CPU #1 Launched!
lapic3: Forcing LINT1 to edge trigger
SMP: AP CPU #3 Launched!
lapic2: Forcing LINT1 to edge trigger
SMP: AP CPU #2 Launched!
Trying to mount root from ufs:/dev/ad8s1a
```

```
# usbdevs
```

```
addr 1: UHCI root hub, Intel
addr 1: UHCI root hub, Intel
addr 1: EHCI root hub, Intel
addr 5: Maxtor 3200, Maxtor Corporation
addr 2: product 0x2504, vendor 0x0424
addr 3: USB Optical Mouse, vendor 0x0461
addr 4: Microsoft Natural Keyboard Elite, vendor 0x045e
addr 1: UHCI root hub, Intel
addr 1: UHCI root hub, Intel
addr 1: UHCI root hub, Intel
addr 1: EHCI root hub, Intel
```

```
# camcontrol devlist
```

```
<Maxtor 3200 0344> at scbus1 target 0 lun 0 (da0,pass0)
```

```
# camcontrol inquiry 1:0:0
```

```
pass0: <Maxtor 3200 0344> Fixed Direct Access SCSI-4 device
```

```
pass0: Serial Number 2CAH3H6P
```

```
40.000MB/s transfers
```

Any hints on how to solve the umass booting problem are most welcome. I'll be happy to provide any additional information that will help locate the cause.

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