

# ATA-ng, Asus A7V, Promise UDMA-100 controller

*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2003-08/1869.html>

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*Date:* 08/31/03

To: [freebsd-current@freebsd.org](mailto:freebsd-current@freebsd.org)

Date: Sun, 31 Aug 2003 16:57:14 -0500

I just tried to upgrade my 4.8 machine to -current cvspped Aug 30. However, the new kernel (GENERIC) has crashed to the debugger two out of the three times that I've tried to boot it. Nothing is attached to ata3 (the second Promise channel). A SAMSUNG SC-140B CD-ROM at ata0-master (PIO4), a TOSHIBA DVD-ROM SD-R1002 (CD-RW + DVD-ROM) is at ata0-slave (PIO4), and a Maxtox 53073H6 [59554/16/63] drive is at ata2-master (UDMA100) (the first Promise channel).

The messages go like this:

```
...
ata3-master: WARNING - ATA_IDENTIFY recovered from missing interrupt
ad6: WARNING - SETFEATURES recovered from missing interrupt
ad6: WARNING - SETFEATURES recovered from missing interrupt
ad6: WARNING - SETFEATURES recovered from missing interrupt
Fatal trap 18: integer divide fault while in kernel mode
instruction pointer = 0x8:0xc04d8c1b
stack pointer = 0x10:0xc0728c2c
frame pointer = 0x10:0xc0728cac
code segment = base 0x0, limit 0xffff, type 0x1b
                = DPL0, pres 1, def32 1, gran 1
processor eflags = interrupt enabled, resume, IOPL = 0
current process = 0 (swapper)
kernel: type 18 trap, code 0
Stopped at __qdivrem+0x3b: divl %ecx,%eax
db> where
__qdivrem(0,0,0,0) at __qdivrem+0x3b
__udivi3(0,0,0,0) at __udivi3+0x2e
ad_print(c2671400,c2671470,1,0,0) at ad_print+0x1d3
ad_attach(c26198a4,c256c7e0,c05bde50,c0728d80) at ad_attach+0x446
ata_boot_attach(0,0,c0728d80,c03346a6,0) at ata_boot_attach+0x47
run_interrupt_driven_config_hooks(0,725000,725c00,725000,0)
  at run_interrupt_driven_config_hooks+0x2b
mi_startup() at mi_startup_0xb5
begin() at begin+0x2c
```

Any thoughts? Maybe I can disable the second channel of the Promise

device somehow so I can get it to boot...

Here is the dmesg from the 4.8 kernel:

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FreeBSD 4.8-STABLE #8: Thu Jun 12 18:46:57 CDT 2003

ghelmer@spencer.cs.iastate.edu:/usr/src/sys/compile/SPENCER

Timecounter "i8254" frequency 1193182 Hz

CPU: AMD Duron(tm) Processor (706.29-MHz 686-class CPU)

Origin = "AuthenticAMD" Id = 0x630 Stepping = 0

Features=0x183f9ff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,SEP,MTRR,PGE,MCA,CMOV,PAT,PSE36,MM

AMD Features=0xc0440000<RSVD,AMIE,DSP,3DNow!>

real memory = 268353536 (262064K bytes)

avail memory = 257290240 (251260K bytes)

Preloaded elf kernel "kernel" at 0xc03ef000.

Pentium Pro MTRR support enabled

md0: Malloc disk

Using \$PIR table, 9 entries at 0xc00f1750

npx0: <math processor> on motherboard

npx0: INT 16 interface

pcib0: <Host to PCI bridge> on motherboard

pci0: <PCI bus> on pcib0

pcib1: <VIA 8363 (Apollo KT133) PCI-PCI (AGP) bridge> at device 1.0 on

pci0

pci1: <PCI bus> on pcib1

pci1: <ATI Mach64-GB graphics accelerator> at 0.0 irq 11

isab0: <VIA 82C686 PCI-ISA bridge> at device 4.0 on pci0

isa0: <ISA bus> on isab0

atapci0: <VIA 82C686 ATA66 controller> port 0xb800-0xb80f at device 4.1

on pci0

ata0: at 0x1f0 irq 14 on atapci0

ata1: at 0x170 irq 15 on atapci0

uhci0: <VIA 83C572 USB controller> port 0xb400-0xb41f irq 5 at device

4.2 on pci0

usb0: <VIA 83C572 USB controller> on uhci0

usb0: USB revision 1.0

uhub0: VIA UHCI root hub, class 9/0, rev 1.00/1.00, addr 1

uhub0: 2 ports with 2 removable, self powered

uhub1: Texas Instruments TUSB2046 hub, class 9/0, rev 1.10/1.25, addr 2

uhub1: 4 ports with 4 removable, self powered

ugen0: Compaq Computers product 0x0003, rev 1.00/0.00, addr 3

uscanner0: Hewlett Packard Scanjet 4300C, rev 1.00/0.00, addr 4

uscanner0: setting config no failed

device\_probe\_and\_attach: usscanner0 attach returned 6

uhub1: port 3, set config at addr 4 failed

uhub1: device problem, disabling port 3

ulpt0: Lexmark Lexmark Z42, rev 1.00/1.00, addr 4, iclass 7/1

uhci1: <VIA 83C572 USB controller> port 0xb000-0xb01f irq 5 at device

4.3 on pci0

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usb1: <VIA 83C572 USB controller> on uhci1  
usb1: USB revision 1.0  
uhub2: VIA UHCI root hub, class 9/0, rev 1.00/1.00, addr 1  
uhub2: 2 ports with 2 removable, self powered  
uhub3: ALCOR Generic USB Hub, class 9/0, rev 1.10/1.00, addr 2  
uhub3: 4 ports with 4 removable, self powered  
pci0: <unknown card> (vendor=0x1106, dev=0x3057) at 4.4  
dc0: <LC82C115 PNIC II 10/100BaseTX> port 0x9400-0x94ff mem  
0xe1800000-0xe18000ff irq 15 at device 10.0 on pci0  
dc0: Ethernet address: 00:a0:cc:37:0a:17  
miibus0: <MII bus> on dc0  
dcpHY0: <Intel 21143 NWay media interface> on miibus0  
dcpHY0: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX, auto  
tekram\_trm0: <Tekram DC395U/UW/F DC315/U Fast20 Wide SCSI Adapter> port  
0x9000-0x90ff mem 0xe1000000-0xe1000fff irq 10 at device 11.0 on pci0  
tekram\_trm0: driver is using old-style compatibility shims  
pcm0: <Creative CT5880-C> port 0x8800-0x883f irq 11 at device 12.0 on  
pci0  
pcm0: <SigmaTel STAC9708/9711 ac97 codec>  
atapci1: <Promise ATA100 controller> port  
0x7000-0x703f,0x7400-0x7403,0x7800-0x7807,0x8000-0x8003,0x8400-0x8407  
mem 0xe0800000-0xe081ffff irq 10 at device 17.0 on pci0  
ata2: at 0x8400 on atapci1  
ata3: at 0x7800 on atapci1  
orm0: <Option ROMs> at iomem  
0xc0000-0xcbfff,0xcc000-0xce7ff,0xd0000-0xd7fff on isa0  
fdc0: <NEC 72065B or clone> at port 0x3f0-0x3f5,0x3f7 irq 6 drq 2 on  
isa0  
fdc0: FIFO enabled, 8 bytes threshold  
fd0: <1440-KB 3.5" drive> on fdc0 drive 0  
atkbdc0: <Keyboard controller (i8042)> at port 0x60,0x64 on isa0  
atkbd0: <AT Keyboard> flags 0x1 irq 1 on atkbdc0  
kbd0 at atkbd0  
psm0: <PS/2 Mouse> irq 12 on atkbdc0  
psm0: model IntelliMouse Explorer, device ID 4  
vga0: <Generic ISA VGA> at port 0x3c0-0x3df iomem 0xa0000-0xbffff on  
isa0  
sc0: <System console> at flags 0x100 on isa0  
sc0: VGA <16 virtual consoles, flags=0x300>  
sio0 at port 0x3f8-0x3ff irq 4 flags 0x10 on isa0  
sio0: type 16550A  
sio1 at port 0x2f8-0x2ff irq 3 on isa0  
sio1: type 16550A  
ppc0: cannot reserve I/O port range  
IP packet filtering initialized, divert enabled, rule-based forwarding  
enabled, default to deny, logging limited to 100 packets/entry by  
default  
ata3-slave: ATA identify retries exceeded  
ata3-master: ATA identify retries exceeded  
ad4: 29311MB <Maxtor 53073H6> [59554/16/63] at ata2-master UDMA100  
acd0: CDROM <SAMSUNG SC-140B> at ata0-master PIO4

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acd1: CD-RW <TOSHIBA DVD-ROM SD-R1002> at ata0-slave PIO4

Waiting 5 seconds for SCSI devices to settle

Mounting root from ufs:/dev/ad4s3a

da0 at tekram\_trm0 bus 0 target 5 lun 0

da0: <IOMEGA ZIP 100 D.09> Removable Direct Access SCSI-2 device

da0: 21KB/s transfers

da0: Attempt to query device size failed: NOT READY, Medium not present

dc0: TX underrun -- increasing TX threshold

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