

Re: ACPI suspend/ ATA reboots

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2004-10/0906.html>

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Date: 10/10/04

Date: Sun, 10 Oct 2004 15:22:05 +0200

To: freebsd-current@freebsd.org

On Sat, Oct 09, 2004 at 01:19:58PM -0400, Anish Mistry wrote:

> *Running 6-CURRENT. Between 09.25.18.00.00 UTC and 09.26.12.00.00 UTC some
> commit seemed to break suspending on my laptop. Whenever I try to suspend it
> reboots. Before this suspend was working well. The panic message seem to
> indicate an ATA issue.*
> <http://am-productions.biz/docs/littleguy.asl.gz>
> <http://am-productions.biz/docs/littleguy-dmesg.boot.gz>
> --
> *Anish Mistry*

Sort of "me too". I'm running 5.3BETA7 (2004-10-06 10:08UTC). Whenever I give the zzz command it tries to suspend but gets stuck in a lock-related panic:

```
#zzz
```

```
Sleeping on "atasusp" with the following non-sleepable locks held:
```

```
exclusive sleep mutex ATA state lock r=0 (0xc1075318)
```

```
  locked @ /usr/src/sys/dev/ata/ata-all.c:341
```

```
KDB: enter: witness-warn
```

```
. panic
```

```
uptime : .....
```

```
panic: _mtx_lock_sleep: recursed on non-recursive mutex
```

```
  ATA state lock @ /usr/src/sys/dev/ata/ata-queue.c:180
```

```
. panic
```

```
panic: _mtx_lock_sleep: recursed on non-recursive mutex
```

```
  ATA state lock @ /usr/src/sys/dev/ata/ata-queue.c:86
```

```
. show witness (top ones shown:)
```

```
ATA queue lock ata-queue.c:174
```

```
ATA state lock ata-all.c:341
```

```
bio queue geom_io.c:65
```

```
ATA disk bioqueue lock ata-disk.c:236
```

```
ATA CD bioqueue lock atapi-cd.c:1100
```

```
...
```

Giving the panic command doesn't give me a crash dump.

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apm_enable is set to NO and dumpdev is set to /dev/ad0s1b in /etc/rc.conf

dmesg -v:

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FreeBSD 5.3-BETA7 #0: Tue Oct 5 22:35:15 CEST 2004

root@82-168-140-74-bbxi.xdsl.tiscali.nl:/usr/obj/usr/src/sys/RENE_2004-09-05d

WARNING: WITNESS option enabled, expect reduced performance.

Preloaded elf kernel "/boot/kernel/kernel" at 0xc07ea000.

Preloaded elf module "/boot/kernel/vesa.ko" at 0xc07ea1f4.

Preloaded elf module "/boot/kernel/if_fxp.ko" at 0xc07ea2a0.

Preloaded elf module "/boot/kernel/miibus.ko" at 0xc07ea34c.

Preloaded elf module "/boot/kernel/snd_cs4281.ko" at 0xc07ea3f8.

Preloaded elf module "/boot/kernel/sound.ko" at 0xc07ea4a8.

Preloaded elf module "/boot/kernel/random.ko" at 0xc07ea554.

Preloaded elf module "/boot/kernel/speaker.ko" at 0xc07ea600.

Preloaded elf module "/boot/kernel/mem.ko" at 0xc07ea6ac.

Preloaded elf module "/boot/kernel/io.ko" at 0xc07ea754.

Preloaded elf module "/boot/kernel/intpm.ko" at 0xc07ea7fc.

Preloaded elf module "/boot/kernel/smbus.ko" at 0xc07ea8a8.

Preloaded elf module "/boot/kernel/cd9660_iconv.ko" at 0xc07ea954.

Preloaded elf module "/boot/kernel/libiconv.ko" at 0xc07eaa08.

Preloaded elf module "/boot/kernel/cd9660.ko" at 0xc07eaab8.

Preloaded elf module "/boot/kernel/msdosfs_iconv.ko" at 0xc07eab64.

Preloaded elf module "/boot/kernel/msdosfs.ko" at 0xc07eac18.

Preloaded elf module "/boot/kernel/acpi.ko" at 0xc07eacc4.

Calibrating clock(s) ... i8254 clock: 1193083 Hz

CLK_USE_I8254_CALIBRATION not specified - using default frequency

Timecounter "i8254" frequency 1193182 Hz quality 0

Calibrating TSC clock ... TSC clock: 497559801 Hz

CPU: Intel Celeron (497.56-MHz 686-class CPU)

Origin = "GenuineIntel" Id = 0x683 Stepping = 3

Features=0x383f9ff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,SEP,MTRR,PGE,MCA,CMOV,PAT,PSE36,M

real memory = 201261056 (191 MB)

Physical memory chunk(s):

0x0000000000001000 - 0x000000000009efff, 647168 bytes (158 pages)

0x0000000000100000 - 0x00000000003fffff, 3145728 bytes (768 pages)

0x0000000000826000 - 0x000000000bc5ffff, 188981248 bytes (46138 pages)

avail memory = 191459328 (182 MB)

bios32: Found BIOS32 Service Directory header at 0xc00f63a0

bios32: Entry = 0xfd8a6 (c00fd8a6) Rev = 0 Len = 1

pcibios: PCI BIOS entry at 0xfd890+0x134

pnpbios: Found PnP BIOS data at 0xc00f63d0

pnpbios: Entry = f000:aa9f Rev = 1.0

Other BIOS signatures found:

null: <null device, zero device>

random: <entropy source, Software, Yarrow>

mem: <memory>

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```
io: <I/O>
VESA: information block
56 45 53 41 00 02 00 01 00 01 00 00 00 00 22 00
00 01 40 00 00 01 0b 01 00 01 21 01 00 01 2a 01
00 01 00 01 01 01 10 01 11 01 12 01 03 01 13 01
14 01 15 01 05 01 16 01 17 01 18 01 07 01 19 01
VESA: 40 mode(s) found
VESA: v2.0, 4096k memory, flags:0x0, mode table:0xc06f6302 (1000022)
VESA: ATI MACH64
VESA: ATI Technologies Inc. MACH64RM 01.00
acpi0: <FUJ IRIS> on motherboard
acpi0: [MPSAFE]
pci_open(1): mode 1 addr port (0x0cf8) is 0x80003904
pci_open(1a): mode1res=0x80000000 (0x80000000)
pci_cfgcheck: device 0 [class=060000] [hdr=00] is there (id=71908086)
pcbios: BIOS version 2.10
Found $PIR table, 7 entries at 0xc00fdf50
PCI-Only Interrupts: none
Location Bus Device Pin Link IRQs
embedded 0 7 D 0x63 9 10 11
embedded 0 4 A 0x60 10 11
embedded 0 8 A 0x62 5 7 9 10
slot 1 0 16 A 0x61 9
slot 2 0 17 A 0x63 9
embedded 0 1 A 0x61 9 10 11
embedded 1 0 A 0x61 9 10 11
acpi_bus_number: root bus has no _BBN, assuming 0
AcpiOsDerivePciId: bus 0 dev 7 func 0
acpi_bus_number: root bus has no _BBN, assuming 0
AcpiOsDerivePciId: bus 0 dev 4 func 0
acpi_bus_number: root bus has no _BBN, assuming 0
AcpiOsDerivePciId: bus 0 dev 4 func 0
acpi_bus_number: root bus has no _BBN, assuming 0
AcpiOsDerivePciId: bus 0 dev 4 func 1
acpi_bus_number: root bus has no _BBN, assuming 0
AcpiOsDerivePciId: bus 0 dev 16 func 0
acpi_bus_number: root bus has no _BBN, assuming 0
AcpiOsDerivePciId: bus 0 dev 17 func 0
acpi0: Power Button (fixed)
acpi_bus_number: root bus has no _BBN, assuming 0
AcpiOsDerivePciId: bus 0 dev 0 func 0
acpi_ec0: <Embedded Controller: GPE 0x9> port 0x66,0x62 on acpi0
acpi_ec0: info: new max delay is 180 us
acpi_ec0: info: new max delay is 260 us
ACPI timer looks BAD min = 2, max = 7, width = 5
ACPI timer looks BAD min = 2, max = 7, width = 5
ACPI timer looks BAD min = 2, max = 7, width = 5
ACPI timer looks BAD min = 2, max = 6, width = 4
ACPI timer looks BAD min = 2, max = 6, width = 4
ACPI timer looks BAD min = 2, max = 6, width = 4
ACPI timer looks BAD min = 2, max = 6, width = 4
ACPI timer looks BAD min = 2, max = 7, width = 5
```

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ACPI timer looks BAD min = 2, max = 7, width = 5
ACPI timer looks BAD min = 2, max = 6, width = 4
ACPI timer looks BAD min = 2, max = 7, width = 5
Timecounter "ACPI-safe" frequency 3579545 Hz quality 1000
acpi_timer0: <24-bit timer at 3.579545MHz> port 0x1008-0x100b on acpi0
cpu0: <ACPI CPU (3 Cx states)> on acpi0
acpi_lid0: <Control Method Lid Switch> on acpi0
acpi_button0: <Power Button> on acpi0
pcib0: <ACPI Host-PCI bridge> port 0xcf8-0xcff on acpi0
ACPI PCI link initial configuration:
SB.LNKD irq 0: [5 9 10 11] 9+ low,level,sharable 0.7.3
SB.LNKA irq 0: [5 9 10 11] 11+ low,level,sharable 0.4.0
SB.LNKB irq 0: [5 9 10 11] 9+ low,level,sharable 0.4.1
SB.LNKC irq 0: [5 9 10 11] 5+ low,level,sharable 0.8.0
SB.LNKB irq 0: [5 9 10 11] 9+ low,level,sharable 0.16.0
SB.LNKD irq 0: [5 9 10 11] 9+ low,level,sharable 0.17.0
pci0: <ACPI PCI bus> on pcib0
pci0: physical bus=0
map[10]: type 3, range 32, base e0000000, size 26, enabled
found-> vendor=0x8086, dev=0x7190, revid=0x03
bus=0, slot=0, func=0
class=06-00-00, hdrtype=0x00, mfdev=0
cmdreg=0x0106, statreg=0x2210, cachelsz=0 (dwords)
lattimer=0x40 (1920 ns), mingnt=0x00 (0 ns), maxlat=0x00 (0 ns)
found-> vendor=0x8086, dev=0x7191, revid=0x03
bus=0, slot=1, func=0
class=06-04-00, hdrtype=0x01, mfdev=0
cmdreg=0x001f, statreg=0x0220, cachelsz=0 (dwords)
lattimer=0x80 (3840 ns), mingnt=0x8c (35000 ns), maxlat=0x00 (0 ns)
map[10]: type 1, range 32, base 00000000, size 12, enabled
found-> vendor=0x104c, dev=0xac51, revid=0x00
bus=0, slot=4, func=0
class=06-07-00, hdrtype=0x02, mfdev=1
cmdreg=0x0007, statreg=0x0210, cachelsz=8 (dwords)
lattimer=0x40 (1920 ns), mingnt=0x40 (16000 ns), maxlat=0x03 (750 ns)
intpin=a, irq=255
powerspec 1 supports D0 D1 D2 D3 current D0
map[10]: type 1, range 32, base 00000000, size 12, enabled
found-> vendor=0x104c, dev=0xac51, revid=0x00
bus=0, slot=4, func=1
class=06-07-00, hdrtype=0x02, mfdev=1
cmdreg=0x0007, statreg=0x0210, cachelsz=8 (dwords)
lattimer=0x40 (1920 ns), mingnt=0x40 (16000 ns), maxlat=0x03 (750 ns)
intpin=a, irq=255
powerspec 1 supports D0 D1 D2 D3 current D0
found-> vendor=0x8086, dev=0x7110, revid=0x02
bus=0, slot=7, func=0
class=06-80-00, hdrtype=0x00, mfdev=1
cmdreg=0x000f, statreg=0x0280, cachelsz=0 (dwords)
lattimer=0x00 (0 ns), mingnt=0x00 (0 ns), maxlat=0x00 (0 ns)
map[20]: type 4, range 32, base 00001080, size 4, enabled

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found-> vendor=0x8086, dev=0x7111, revid=0x01
bus=0, slot=7, func=1
class=01-01-80, hdrtype=0x00, mfdev=0
cmdreg=0x0005, statreg=0x0280, cachelsz=0 (dwords)
lattimer=0x40 (1920 ns), mingnt=0x00 (0 ns), maxlat=0x00 (0 ns)
map[20]: type 4, range 32, base 000010a0, size 5, port disabled
pcib0: matched entry for 0.7.INTD (src _SB_.LNKD)
pcib0: possible interrupts: 5 9 10 11
ACPI PCI link arbitrated settings:
SB.LNKD (references 2, priority 175):
interrupts: 11 10 5 9
penalty: 60 60 110 120
SB.LNKB (references 2, priority 175):
interrupts: 11 10 5 9
penalty: 60 60 110 120
SB.LNKA (references 1, priority 87):
interrupts: 11 10 5 9
penalty: 60 60 110 120
SB.LNKC (references 1, priority 87):
interrupts: 11 10 5 9
penalty: 60 60 110 120
pcib0: slot 7 INTD routed to irq 9 via _SB_.LNKD
found-> vendor=0x8086, dev=0x7112, revid=0x01
bus=0, slot=7, func=2
class=0c-03-00, hdrtype=0x00, mfdev=0
cmdreg=0x0000, statreg=0x0280, cachelsz=0 (dwords)
lattimer=0x40 (1920 ns), mingnt=0x00 (0 ns), maxlat=0x00 (0 ns)
intpin=d, irq=9
map[90]: type 4, range 32, base 0000ff80, size 4, enabled
found-> vendor=0x8086, dev=0x7113, revid=0x03
bus=0, slot=7, func=3
class=06-80-00, hdrtype=0x00, mfdev=0
cmdreg=0x0003, statreg=0x0280, cachelsz=0 (dwords)
lattimer=0x00 (0 ns), mingnt=0x00 (0 ns), maxlat=0x00 (0 ns)
map[10]: type 1, range 32, base fc101000, size 12, enabled
map[14]: type 1, range 32, base fc110000, size 16, enabled
pcib0: matched entry for 0.8.INTA (src _SB_.LNKC)
pcib0: possible interrupts: 5 9 10 11
ACPI PCI link arbitrated settings:
SB.LNKB (references 2, priority 335):
interrupts: 11 10 5 9
penalty: 120 120 170 260
SB.LNKA (references 1, priority 167):
interrupts: 11 10 5 9
penalty: 120 120 170 260
SB.LNKC (references 1, priority 167):
interrupts: 11 10 5 9
penalty: 120 120 170 260
pcib0: slot 8 INTA routed to irq 5 via _SB_.LNKC
found-> vendor=0x1013, dev=0x6005, revid=0x01
bus=0, slot=8, func=0

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```
class=04-01-00, hdrtype=0x00, mfdev=0
cmdreg=0x0006, statreg=0x0210, cachelsz=0 (dwords)
lattimer=0x40 (1920 ns), mingnt=0x04 (1000 ns), maxlat=0x18 (6000 ns)
intpin=a, irq=5
powerspec 2 supports D0 D1 D2 D3 current D0
map[10]: type 1, range 32, base fc100000, size 12, enabled
map[14]: type 4, range 32, base 00001040, size 6, enabled
map[18]: type 1, range 32, base fc000000, size 20, enabled
pcib0: matched entry for 0.16.INTA (src \_SB_.LNKB)
pcib0: possible interrupts: 5 9 10 11
ACPI PCI link arbitrated settings:
\_SB_.LNKB (references 2, priority 490):
    interrupts: 11 10 5 9
    penalty: 180 180 240 380
\_SB_.LNKA (references 1, priority 245):
    interrupts: 11 10 5 9
    penalty: 180 180 240 380
pcib0: slot 16 INTA routed to irq 9 via \_SB_.LNKB
found-> vendor=0x8086, dev=0x1229, revid=0x08
    bus=0, slot=16, func=0
    class=02-00-00, hdrtype=0x00, mfdev=0
    cmdreg=0x0013, statreg=0x0290, cachelsz=8 (dwords)
    lattimer=0x42 (1980 ns), mingnt=0x08 (2000 ns), maxlat=0x38 (14000 ns)
    intpin=a, irq=9
    powerspec 2 supports D0 D1 D2 D3 current D0
pcib1: <ACPI PCI-PCI bridge> at device 1.0 on pci0
pcib1: secondary bus 1
pcib1: subordinate bus 1
pcib1: I/O decode 0x2000-0x2fff
pcib1: memory decode 0xfc200000-0xfdffffff
pcib1: prefetched decode 0xffff0000-0xffff
ACPI PCI link initial configuration:
\_SB_.LNKB irq* 9: [ 5 9 10 11] 9+ low,level,sharable 1.0.0
pci1: <ACPI PCI bus> on pcib1
pci1: physical bus=1
    map[10]: type 1, range 32, base fd000000, size 24, enabled
pci1: device (null) requested decoded memory range 0xfd000000-0xfdffffff
    map[14]: type 4, range 32, base 00002000, size 8, enabled
pci1: device (null) requested decoded I/O range 0x2000-0x20ff
    map[18]: type 1, range 32, base fc200000, size 12, enabled
pci1: device (null) requested decoded memory range 0xfc200000-0xfc200fff
pci1: matched entry for 1.0.INTA (src \_SB_.LNKB)
pci1: slot 0 INTA is already routed to irq 9
found-> vendor=0x1002, dev=0x4c4d, revid=0x64
    bus=1, slot=0, func=0
    class=03-00-00, hdrtype=0x00, mfdev=0
    cmdreg=0x0087, statreg=0x0290, cachelsz=8 (dwords)
    lattimer=0x42 (1980 ns), mingnt=0x08 (2000 ns), maxlat=0x00 (0 ns)
    intpin=a, irq=9
    powerspec 1 supports D0 D1 D2 D3 current D0
pci1: <display, VGA> at device 0.0 (no driver attached)
```

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pci0: <bridge, PCI-CardBus> at device 4.0 (no driver attached)
pci0: <bridge, PCI-CardBus> at device 4.1 (no driver attached)
PCI-ISA bridge with incorrect subclass 0x80
PCI-ISA bridge with incorrect subclass 0x80
isab0: <PCI-ISA bridge> at device 7.0 on pci0
isa0: <ISA bus> on isab0
atapci0: <Intel PIIX4 UDMA33 controller> port 0x1080-0x108f,0x376,0x170-0x177,0x3f6,0x1f0-0x1f7 at device 7.1 on pci0
atapci0: Reserved 0x10 bytes for rid 0x20 type 4 at 0x1080
ata0: channel #0 on atapci0
atapci0: Reserved 0x8 bytes for rid 0x10 type 4 at 0x1f0
atapci0: Reserved 0x1 bytes for rid 0x14 type 4 at 0x3f6
ata0: reset tp1 mask=03 ostat0=50 ostat1=00
ata0-master: stat=0x50 err=0x01 lsb=0x00 msb=0x00
ata0-slave: stat=0x00 err=0x01 lsb=0x00 msb=0x00
ata0: reset tp2 stat0=50 stat1=00 devices=0x1<ATA_MASTER>
ata0: [MPSAFE]
ata1: channel #1 on atapci0
atapci0: Reserved 0x8 bytes for rid 0x18 type 4 at 0x170
atapci0: Reserved 0x1 bytes for rid 0x1c type 4 at 0x376
ata1: reset tp1 mask=03 ostat0=50 ostat1=01
ata1-master: stat=0x00 err=0x01 lsb=0x14 msb=0xeb
ata1-slave: stat=0x01 err=0x04 lsb=0x00 msb=0x00
ata1: reset tp2 stat0=00 stat1=01 devices=0x4<ATAPI_MASTER>
ata1: [MPSAFE]
pci0: <serial bus, USB> at device 7.2 (no driver attached)
intpm0: <Intel 82371AB Power management controller> port 0xff80-0xff8f irq 9 at device 7.3 on pci0
intpm0: Reserved 0x10 bytes for rid 0x90 type 4 at 0xff80
intpm0: I/O mapped ff80
intpm0: intr IRQ 9 enabled revision 0
intpm0: [GIANT-LOCKED]
intsmb0: <Intel PIIX4 SMBUS Interface> on intpm0
smbus0: <System Management Bus> on intsmb0
intpm0: PM I/O mapped 1000
pcm0: <Crystal Semiconductor CS4281> mem 0xfc110000-0xfc11ffff,0xfc101000-0xfc101fff irq 5 at device 8.0 on pci0
pcm0: Reserved 0x1000 bytes for rid 0x10 type 3 at 0xfc101000
pcm0: Reserved 0x10000 bytes for rid 0x14 type 3 at 0xfc110000
pcm0: [GIANT-LOCKED]
pcm0: <Cirrus Logic CS4297A AC97 Codec (id = 0x43525914)>
pcm0: Codec features headphone, 20 bit DAC, 18 bit ADC, 6 bit master volume, Crystal Semi 3D Stereo Enhancement
pcm0: Primary codec extended features AMAP
pcm0: sndbuf_setmap bac4000, 4000; 0xca2d6000 -> bac4000
pcm0: sndbuf_setmap bac0000, 4000; 0xca2da000 -> bac0000
fxp0: <Intel 82559 Pro/100 Ethernet> port 0x1040-0x107f mem 0xfc000000-0xfc0fffff,0xfc100000-0xfc100fff irq 9 at device 16.0 on pci0
fxp0: Reserved 0x1000 bytes for rid 0x10 type 3 at 0xfc100000
fxp0: using memory space register mapping
fxp0: PCI IDs: 8086 1229 10cf 108e 0008
fxp0: Dynamic Standby mode is disabled

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miibus0: <MII bus> on fxp0
inphy0: <i82555 10/100 media interface> on miibus0
inphy0: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX, auto
fxp0: bpf attached
fxp0: Ethernet address: 00:d0:59:01:ed:22
fxp0: [MPSAFE]
unknown: not probed (disabled)
speaker0 port 0x61 on acpi0
atkbd0: <Keyboard controller (i8042)> port 0x64,0x60 irq 1 on acpi0
atkbd0: <AT Keyboard> irq 1 on atkbd0
atkbd: the current kbd controller command byte 0047
atkbd: keyboard ID 0x41ab (2)
kbd0 at atkbd0
kbd0: atkbd0, AT 101/102 (2), config:0x0, flags:0x3d0000
atkbd0: [GIANT-LOCKED]
psm0: unable to allocate IRQ
psmcpnp0 irq 12 on acpi0
psm0: current command byte:0047
psm0: <PS/2 Mouse> irq 12 on atkbd0
psm0: [GIANT-LOCKED]
psm0: model GlidePoint, device ID 0-00, 2 buttons
psm0: config:00000000, flags:00000008, packet size:3
psm0: syncmask:c0, syncbits:00
acpi_acad0: <AC Adapter> on acpi0
acpi_cmbat0: <Control Method Battery> on acpi0
unknown: not probed (disabled)
unknown: not probed (disabled)
unknown: not probed (disabled)
unknown: not probed (disabled)
unknown: not probed (disabled)
unknown: not probed (disabled)
unknown: not probed (disabled)
unknown: not probed (disabled)
unknown: not probed (disabled)
unknown: not probed (disabled)
unknown: not probed (disabled)
npx0: [FAST]
npx0: <math processor> on motherboard
npx0: INT 16 interface
ata: ata0 already exists; skipping it
ata: ata1 already exists; skipping it
atkbd: atkbd0 already exists; skipping it
Trying Read_Port at 203
Trying Read_Port at 243
Trying Read_Port at 283
Trying Read_Port at 2c3
Trying Read_Port at 303
Trying Read_Port at 343
Trying Read_Port at 383
Trying Read_Port at 3c3
sc: sc0 already exists; skipping it
vga: vga0 already exists; skipping it
isa_probe_children: disabling PnP devices

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isa_probe_children: probing non-PnP devices
orm0: <ISA Option ROM> at iomem 0xc0000-0xcffff on isa0
pmtimer0 on isa0
adv0: not probed (disabled)
aha0: not probed (disabled)
aic0: not probed (disabled)
bt0: not probed (disabled)
cs0: not probed (disabled)
ed0: not probed (disabled)
fdc0 failed to probe at port 0x3f0 irq 6 drq 2 on isa0
fe0: not probed (disabled)
ie0: not probed (disabled)
lnc0: not probed (disabled)
pcic0 failed to probe at port 0x3e0 iomem 0xd0000 on isa0
pcic1: not probed (disabled)
ppc0 failed to probe at irq 7 on isa0
sc0: <System console> at flags 0x100 on isa0
sc0: VGA <16 virtual consoles, flags=0x300>
sc0: fb0, kbd0, terminal emulator: sc (syscons terminal)
sio0 failed to probe at port 0x3f8 irq 4 flags 0x10 on isa0
sio1 failed to probe at port 0x2f8 irq 3 on isa0
sio2: not probed (disabled)
sio3: not probed (disabled)
sn0: not probed (disabled)
vga0: <Generic ISA VGA> at port 0x3c0-0x3df iomem 0xa0000-0xbffff on isa0
fb0 at vga0
fb0: vga0, vga, type:VGA (5), flags:0x700ff
fb0: port:0x3c0-0x3df, crtc:0x3d4, mem:0xa0000 0x20000
fb0: init mode:24, bios mode:3, current mode:24
fb0: window:0xc00b8000 size:32k gran:32k, buf:0 size:32k
vga0: vga: WARNING: video mode switching is not fully supported on this adapter
VGA parameters upon power-up
50 18 10 00 00 00 03 00 02 e7 73 4f 4f 97 52 83
b4 1f 00 4f 0d 0e 00 00 07 80 91 87 8f 28 1f 8f
b5 a3 ff 00 01 02 03 04 05 14 07 38 39 3a 3b 3c
3d 3e 3f 0c 00 0f 08 00 00 00 00 00 10 0e 00 ff
VGA parameters in BIOS for mode 24
50 18 10 00 10 00 03 00 02 67 5f 4f 50 82 55 81
bf 1f 00 4f 0d 0e 00 00 00 00 9c 8e 8f 28 1f 96
b9 a3 ff 00 01 02 03 04 05 14 07 38 39 3a 3b 3c
3d 3e 3f 0c 00 0f 08 00 00 00 00 00 10 0e 00 ff
EGA/VGA parameters to be used for mode 24
50 18 10 00 00 00 03 00 02 e7 73 4f 4f 97 52 83
b4 1f 00 4f 0d 0e 00 00 07 80 91 87 8f 28 1f 8f
b5 a3 ff 00 01 02 03 04 05 14 07 38 39 3a 3b 3c
3d 3e 3f 0c 00 0f 08 00 00 00 00 00 10 0e 00 ff
vt0: not probed (disabled)
isa_probe_children: probing PnP devices
Device configuration finished.
Timecounter "TSC" frequency 497559801 Hz quality 800
Timecounters tick every 1.000 msec

Re: ACPI suspend/ ATA reboots

freebsd-current: Re: ACPI suspend/ ATA reboots

```
lo0: bpf attached
cpu0: set speed to 100.0%
acpi_cpu: throttling enabled, 8 steps (100% to 12.5%), currently 100.0%
acpi_acad0: acline initialization start
acpi_acad0: On Line
acpi_acad0: acline initialization done, tried 1 times
acpi_cmbat0: battery initialization start
ata0-master: pio=0x0c wdma=0x22 udma=0x45 cable=80pin
ata0-master: setting PIO4 on Intel PIIX4 chip
ata0-master: setting UDMA33 on Intel PIIX4 chip
ad0: <TOSHIBA MK4025GAS/KA100A> ATA-6 disk at ata0-master
ad0: 38154MB (78140160 sectors), 77520 C, 16 H, 63 S, 512 B
ad0: 16 secs/int, 1 depth queue, UDMA33
GEOM: new disk ad0
ata1-master: pio=0x0c wdma=0x22 udma=0x42 cable=40pin
ata1-master: setting PIO4 on Intel PIIX4 chip
ata1-master: setting UDMA33 on Intel PIIX4 chip
acd0: <CD-224E/1.7A> CDROM drive at ata1 as master
acd0: read 4134KB/s (4134KB/s), 128KB buffer, UDMA33
acd0: Reads: CDR, CDRW, CDDA stream, packet
acd0: Writes:
acd0: Audio: play, 256 volume levels
acd0: Mechanism: ejectable tray, unlocked
acd0: Medium: no/blank disc
[0] f:80 typ:165 s(CHS):0/1/1 e(CHS):1023/254/63 s:63 l:78140097
[1] f:00 typ:0 s(CHS):0/0/0 e(CHS):0/0/0 s:0 l:0
[2] f:00 typ:0 s(CHS):0/0/0 e(CHS):0/0/0 s:0 l:0
[3] f:00 typ:0 s(CHS):0/0/0 e(CHS):0/0/0 s:0 l:0
GEOM: Configure ad0s1, start 32256 length 40007729664 end 40007761919
GEOM: Configure ad0s1a, start 0 length 268435456 end 268435455
GEOM: Configure ad0s1b, start 268435456 length 376217600 end 644653055
GEOM: Configure ad0s1c, start 0 length 40007729664 end 40007729663
GEOM: Configure ad0s1d, start 644653056 length 1073741824 end 1718394879
GEOM: Configure ad0s1e, start 1718394880 length 268435456 end 1986830335
GEOM: Configure ad0s1f, start 1986830336 length 38020899328 end 40007729663
Mounting root from ufs:/dev/ad0s1a
start_init: trying /sbin/init
pci0: driver added
found-> vendor=0x104c, dev=0xac51, revid=0x00
    bus=0, slot=4, func=0
    class=06-07-00, hdrtype=0x02, mfdev=1
    cmdreg=0x0007, statreg=0x0210, cachelsz=8 (dwords)
    lattimer=0x40 (1920 ns), mingnt=0x40 (16000 ns), maxlat=0x03 (750 ns)
    intpin=a, irq=255
    powerspec 1 supports D0 D1 D2 D3 current D0
pci0:4:0: reprobing on driver added
found-> vendor=0x104c, dev=0xac51, revid=0x00
    bus=0, slot=4, func=1
    class=06-07-00, hdrtype=0x02, mfdev=1
    cmdreg=0x0007, statreg=0x0210, cachelsz=8 (dwords)
    lattimer=0x40 (1920 ns), mingnt=0x40 (16000 ns), maxlat=0x03 (750 ns)
```

freebsd-current: Re: ACPI suspend/ ATA reboots

```
intpin=a, irq=255
powerspec 1 supports D0 D1 D2 D3 current D0
pci0:4:1: reprobing on driver added
found-> vendor=0x8086, dev=0x7112, revid=0x01
    bus=0, slot=7, func=2
    class=0c-03-00, hdrtype=0x00, mfdev=0
    cmdreg=0x0000, statreg=0x0280, cachelsz=0 (dwords)
    lattimer=0x40 (1920 ns), mingnt=0x00 (0 ns), maxlat=0x00 (0 ns)
    intpin=d, irq=9
pci0:7:2: reprobing on driver added
uhci0: <Intel 82371AB/EB (PIIX4) USB controller> port 0x10a0-0x10bf irq 9 at device 7.2 on pci0
uhci0: Reserved 0x20 bytes for rid 0x20 type 4 at 0x10a0
uhci0: [GIANT-LOCKED]
usb0: <Intel 82371AB/EB (PIIX4) USB controller> on uhci0
usb0: USB revision 1.0
uhub0: Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1
uhub0: 2 ports with 2 removable, self powered
pci1: driver added
found-> vendor=0x1002, dev=0x4c4d, revid=0x64
    bus=1, slot=0, func=0
    class=03-00-00, hdrtype=0x00, mfdev=0
    cmdreg=0x0087, statreg=0x0290, cachelsz=8 (dwords)
    lattimer=0x42 (1980 ns), mingnt=0x08 (2000 ns), maxlat=0x00 (0 ns)
    intpin=a, irq=9
    powerspec 1 supports D0 D1 D2 D3 current D0
pci1:0:0: reprobing on driver added
pci0: driver added
found-> vendor=0x104c, dev=0xac51, revid=0x00
    bus=0, slot=4, func=0
    class=06-07-00, hdrtype=0x02, mfdev=1
    cmdreg=0x0007, statreg=0x0210, cachelsz=8 (dwords)
    lattimer=0x40 (1920 ns), mingnt=0x40 (16000 ns), maxlat=0x03 (750 ns)
    intpin=a, irq=255
    powerspec 1 supports D0 D1 D2 D3 current D0
pci0:4:0: reprobing on driver added
found-> vendor=0x104c, dev=0xac51, revid=0x00
    bus=0, slot=4, func=1
    class=06-07-00, hdrtype=0x02, mfdev=1
    cmdreg=0x0007, statreg=0x0210, cachelsz=8 (dwords)
    lattimer=0x40 (1920 ns), mingnt=0x40 (16000 ns), maxlat=0x03 (750 ns)
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    powerspec 1 supports D0 D1 D2 D3 current D0
pci0:4:1: reprobing on driver added
pci1: driver added
found-> vendor=0x1002, dev=0x4c4d, revid=0x64
    bus=1, slot=0, func=0
    class=03-00-00, hdrtype=0x00, mfdev=0
    cmdreg=0x0087, statreg=0x0290, cachelsz=8 (dwords)
    lattimer=0x42 (1980 ns), mingnt=0x08 (2000 ns), maxlat=0x00 (0 ns)
    intpin=a, irq=9
    powerspec 1 supports D0 D1 D2 D3 current D0
```

freebsd-current: Re: ACPI suspend/ ATA reboots

```
pci1:0:0: reprobing on driver added
pci0: driver added
found-> vendor=0x104c, dev=0xac51, revid=0x00
    bus=0, slot=4, func=0
    class=06-07-00, hdrtype=0x02, mfdev=1
    cmdreg=0x0007, statreg=0x0210, cachelsz=8 (dwords)
    lattimer=0x40 (1920 ns), mingnt=0x40 (16000 ns), maxlat=0x03 (750 ns)
    intpin=a, irq=255
    powerspec 1 supports D0 D1 D2 D3 current D0
pci0:4:0: reprobing on driver added
found-> vendor=0x104c, dev=0xac51, revid=0x00
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    class=06-07-00, hdrtype=0x02, mfdev=1
    cmdreg=0x0007, statreg=0x0210, cachelsz=8 (dwords)
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    intpin=a, irq=255
    powerspec 1 supports D0 D1 D2 D3 current D0
pci0:4:1: reprobing on driver added
pci1: driver added
found-> vendor=0x1002, dev=0x4c4d, revid=0x64
    bus=1, slot=0, func=0
    class=03-00-00, hdrtype=0x00, mfdev=0
    cmdreg=0x0087, statreg=0x0290, cachelsz=8 (dwords)
    lattimer=0x42 (1980 ns), mingnt=0x08 (2000 ns), maxlat=0x00 (0 ns)
    intpin=a, irq=9
    powerspec 1 supports D0 D1 D2 D3 current D0
pci1:0:0: reprobing on driver added
splash: image decoder found: blank_saver
Linux ELF exec handler installed
acpi_cmbat0: battery initialization failed, giving up
```

kernel config:

```
#
# For more information on this file, please read the handbook section on
# Kernel Configuration Files:
#
# http://www.FreeBSD.org/doc/en\_US.ISO8859-1/books/handbook/kernelconfig-config.html
#
# The handbook is also available locally in /usr/share/doc/handbook
# if you've installed the doc distribution, otherwise always see the
# FreeBSD World Wide Web server (http://www.FreeBSD.org/) for the
# latest information.
#
# An exhaustive list of options and more detailed explanations of the
# device lines is also present in the ../conf/NOTES and NOTES files.
# If you are in doubt as to the purpose or necessity of a line, check first
# in NOTES.
#
```

```
makeoptions DEBUG=-g
```

Re: ACPI suspend/ ATA reboots

freebsd-current: Re: ACPI suspend/ ATA reboots

machine i386
cpu I686_CPU
options CPU_FASTER_5X86_FPU
ident RENE_2004-09-05d

device apic

options SCHED_ULE

options KDB
options DDB
options GDB # remote GDB support
options WITNESS
options WITNESS_SKIPSPIN
options WITNESS_KDB
options INVARIANTS
options INVARIANT_SUPPORT
options AHC_REG_PRETTY_PRINT
options AHD_REG_PRETTY_PRINT

options ADAPTIVE_GIANT

options INET #InterNETworking, mandatory
options INET6 #IPv6 communications protocols
#options IPSEC
#options IPSEC_ESP

options FFS #Berkeley Fast Filesystem
options SOFTUPDATES #Enable FFS soft updates support
options UFS_ACL #Support for access control lists
options UFS_DIRHASH #Improve performance on big directories

options COMPAT_FREEBSD4 #Compatible with FreeBSD4
options COMPAT_43 #Compatible with BSD 4.3 [KEEP THIS!]

options KTRACE

options PQ_CACHESIZE=32 #32kB L2 Cache

options _KPOSIX_PRIORITY_SCHEDULING #Posix P1003_1B real-time extensions

device isa
device pci

ATA and ATAPI devices
device ata
device atadisk # ATA disk drives
device atapicd # ATAPI CDROM drives

atkbdc0 controls both the keyboard and the PS/2 mouse
device atkbdc # AT keyboard controller

Re: ACPI suspend/ ATA reboots

freebsd-current: Re: ACPI suspend/ ATA reboots

```
device atkbd
options KBD_INSTALL_CDEV
```

```
device psm # PS/2 mouse
# syscons is the default console driver, resembling an SCO console
device sc
options SC_TWOBUTTON_MOUSE
```

```
device vga # VGA video card driver
options FB_INSTALL_CDEV
```

```
device npx # Floating point support – do not disable.
```

```
options DEVICE_POLLING # improve fxp0 performance
options HZ=1000 # for DEVICE_POLLING, interrupt rate
```

```
device loop # Network loopback
device ether # Ethernet support
device pty # Pseudo-ttys (telnet,xterm etc)
device bpf # needed for DHCP
options XBONEHACK # same address pairs over multiple gif intf
options PPP_BSDCOMP
options PPP_DEFLATE
options PPP_FILTER
```

```
device splash #screensaver/splash screen
```

```
device pmtimer
```

```
kldstat:
```

Id	Refs	Address	Size	Name
1	28	0xc0400000	2f1cd8	kernel
2	1	0xc06f2000	547c	vesa.ko
3	1	0xc06f8000	a83c	if_fxp.ko
4	2	0xc0703000	1aa04	miibus.ko
5	1	0xc071e000	597c	snd_cs4281.ko
6	2	0xc0724000	21600	sound.ko
7	1	0xc0746000	c280	random.ko
8	1	0xc0753000	3084	speaker.ko
9	1	0xc0757000	2b4c	mem.ko
10	1	0xc075a000	1cec	io.ko
11	1	0xc075c000	450c	intpm.ko
12	2	0xc0761000	3724	smbus.ko
13	1	0xc0765000	1e6c	cd9660_iconv.ko
14	5	0xc0767000	4bdc	libiconv.ko
15	2	0xc076c000	a64c	cd9660.ko
16	1	0xc0777000	1e80	msdosfs_iconv.ko
17	2	0xc0779000	10b00	msdosfs.ko
18	14	0xc078a000	5e764	acpi.ko
19	1	0xc1265000	26000	usb.ko

Re: ACPI suspend/ ATA reboots

freebsd-current: Re: ACPI suspend/ ATA reboots

20 1 0xc12ab000 2000 blank_saver.ko
21 1 0xc12c0000 1b000 linux.ko
22 1 0xc12db000 4000 sysvmsg.ko
23 1 0xc12e6000 5000 sysvsem.ko
24 1 0xc12f8000 4000 sysvshm.ko

Rene

-
- application/pgp-signature attachment: stored