

sound i810 [i82801AA (ICH) AC'97 Audio controller]

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2004-03/0533.html>

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Date: 03/03/04

Date: Wed, 3 Mar 2004 16:28:04 -0600 (CST)

To: freebsd-questions@freebsd.org

Hello, my name is Luis and I am a new user of FreeBSD

I had been having some troubles getting my sound to work. Doing some research and looking around the LINT file I found that I have to add the following lines to my kernel:

```
device pcm #Required for i82801AA (ICH)
device smbus # Bus support, required for smb
device iicbus # Added because seems to be a I2C
device
device iicbb # same previos reason
device lpbb #same previous reason
device ichsmb # Intel ICH SMBus controller for chip
(82801AA) as described in LINT
device smb # Needed as described in LINT
```

then:

```
# cd /usr/src
# make buildkern KERNCONF=MYKERNEL
# make installkern KERNCONF=MYKERNEL
# reboot
```

NOTE I have tried with and without device iicbus,iicbb,lpdd and always get the same dmesg

I get the following dmesg:

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FreeBSD 4.9-RELEASE #5: Wed Mar 3 16:50:05 EST 2004

root@CPE00047629f56b-CM000a73a1326c.ktgc.phub.net.cable.rogers.com:/usr/obj/
usr/src/sys/MYKERNEL

Timecounter "i8254" frequency 1193182 Hz

CPU: Intel Pentium III (863.79-MHz 686-class CPU)

Origin = "GenuineIntel" Id = 0x686 Stepping = 6

Features=0x383f9ff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,SEP,MTRR,PGE,MCA,CMOV,PA
T,PSE36,MMX,FXSR,SSE>

real memory = 133103616 (129984K bytes)

config> en sn0

config> po sn0 0x300

config> ir sn0 10

config> f sn0 0

config> q

avail memory = 124461056 (121544K bytes)

Preloaded elf kernel "kernel" at 0xc04f2000.

Preloaded userconfig_script "/boot/kernel.conf" at
0xc04f209c.

VESA: v3.0, 1024k memory, flags:0x1, mode
table:0xc0458b22 (1000022)

VESA: Intel(R) 815 Chipset Video BIOS

Pentium Pro MTRR support enabled

md0: Malloc disk

Using \$PIR table, 9 entries at 0xc00fdf30

npx0: <math processor> on motherboard

npx0: INT 16 interface

pcib0: <Host to PCI bridge> on motherboard

pci0: <PCI bus> on pcib0

agp0: <Intel 82815 (i815 GMCH) SVGA controller> mem
0xec000000-0xec07ffff,0xf000

0000-0xf3ffffff irq 10 at device 2.0 on pci0

pcib1: <Intel 82801AA (ICH) Hub to PCI bridge> at
device 30.0 on pci0

pci1: <PCI bus> on pcib1

xl0: <3Com 3c905C-TX Fast Etherlink XL> port

0x2000-0x207f mem 0xec100000-0xec10

007f irq 7 at device 4.0 on pci1

xl0: Ethernet address: 00:04:76:29:f5:6b

miiibus0: <MII bus> on xl0

xlphy0: <3c905C 10/100 internal PHY> on miiibus0

xlphy0: 10baseT, 10baseT-FDX, 100baseTX,
100baseTX-FDX, auto

isab0: <Intel 82801AA (ICH) PCI to LPC bridge> at
device 31.0 on pci0

isa0: <ISA bus> on isab0

atapci0: <Intel ICH ATA66 controller> port

0x1800-0x180f at device 31.1 on pci0

ata0: at 0x1f0 irq 14 on atapci0

ata1: at 0x170 irq 15 on atapci0

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uhci0: <Intel 82801AA (ICH) USB controller> port
0x1820-0x183f at device 31.2 on
pci0
pci_cfgintr_virgin: using routable interrupt 3
pci_cfgintr: 0:31 INTD routed to irq 3
usb0: <Intel 82801AA (ICH) 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
uhid0: Microsoft Microsoft SideWinder Precision Pro
(USB), rev 1.00/1.00, addr 2
, iclass 3/0

THIS IS THE IMPORTANT LINES!!!!

ichsmb0: <Intel 82801AA (ICH) SMBus controller> port
0x1810-0x181f irq 9 at devi
ce 31.3 on pci0
smbus0: <System Management Bus> on ichsmb0
smb0: <SMBus general purpose I/O> on smbus0
pcm0: <Intel ICH (82801AA)> at device 31.5 on pci0
pcm0: unable to map IO port space
device_probe_and_attach: pcm0 attach returned 6

#####

orm0: <Option ROMs> at iomem
0xc0000-0xc9fff,0xca000-0xcafff,0xe0000-0xe3fff,0xe
4000-0xeffff on isa0
pmtimer0 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, device ID 3
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: configured irq 3 not in bitmap of probed irqs 0
sio1 at port 0x2f8-0x2ff irq 3 on isa0
sio1: type 16550A
ppc0: <Parallel port> at port 0x278-0x27f irq 7 on

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isa0

ppc0: Generic chipset (EPP/NIBBLE) in COMPATIBLE mode

ppbus0: IEEE1284 device found

Probing for PnP devices on ppbus0:

plip0: <PLIP network interface> on ppbus0

lpt0: <Printer> on ppbus0

lpt0: Interrupt-driven port

ppi0: <Parallel I/O> on ppbus0

ad0: 9641MB <QUANTUM FIREBALLlct10 10> [19590/16/63]

at ata0-master UDMA66

acd0: CDROM <LTN485S> at ata1-master PIO4

acd1: DVD-ROM <SAMSUNG DVD-ROM SD-612> at ata1-slave

UDMA33

Mounting root from ufs:/dev/ad0s3a

The sound card was working fine on my previous OS, so
I don't have any more clues on how to deal with this!

Thanks in advance for any help!!!!

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