

promise sata tx4 and 3 monitors [long]

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2004-03/2013.html>

From: jon (juostaus_at_yahoo.com)

Date: 03/14/04

Date: Sat, 13 Mar 2004 15:49:35 -0800 (PST)
To: freebsd-questions@freebsd.org

I can boot 5.1-RELEASE-p10 and 5.2.1-RELEASE-p1 from promise raid without the pci video card (ati xpert 98), when I plug it in, I no longer have /dev/ar0. I would like to move to 5.2.1, so I have included information from that system (the only way i can get the system to boot is from onboard IDE). I have tried 7 different pci video cards with my Matro g550 and Promise raid, so I assume its not this just this card. I have tried the cards in all possible slot configurations. PNP OS is off in the BIOS.

Motherboard

<http://www.intel.com/support/motherboards/desktop/d865perl/index.htm>

Promise card

http://www.promise.com/product/product_detail_eng.asp?productId=108&familyId=2

Thanks in advance.

--

Jon

uname -a

```
FreeBSD new52.foo.com 5.2.1-RELEASE-p1 FreeBSD
```

```
5.2.1-RELEASE-p1
```

```
#0: Thu Mar 11 20:04:08 EST 2004
```

```
root@new.foo.com: /usr/obj/usr/521/src/sys/NEW521 i386
```

```
diff dmesg.boot.with dmesg.boot.without
```

```
24c24
```

```
< Timecounter "ACPI-safe" frequency 3579545 Hz quality
```

```
1000
```

```
---
```

```
> Timecounter "ACPI-fast" frequency 3579545 Hz quality
```

```
1000
```

```
34c34
```

```
< drm0: <Matrox G550 (AGP)> mem
```

```
0xfe000000-0xfe7fffff,0xfe8fc000-0xfe8fffff,0xea000000-0xebffffff
```

```
irq 16 at device 0.0 on pci1
```

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```
---
> drm0: <Matrox G550 (AGP)> mem
0xfe000000-0xfe7ffffff,0xfe8fc000-0xfe8ffffff,0xf2000000-0xf3ffffff
irq 16 at device 0.0 on pci1
39c39
< em0: <Intel(R) PRO/1000 Network Connection, Version
- 1.7.19> port
0x9c00-0x9c1f mem 0xfe9e0000-0xfe9ffffff irq 18 at
device 1.0 on pci2
---
> em0: <Intel(R) PRO/1000 Network Connection, Version
- 1.7.19> port
0xac00-0xac1f mem 0xfe9e0000-0xfe9ffffff irq 18 at
device 1.0 on pci2
64d63
< pci3: <display, VGA> at device 0.0 (no driver
attached)
127a127,134
> GEOM: create disk ad4 dp=0xc6beab60
> ad4: 35304MB <WDC WD360GD-00FNA0> [71730/16/63] at
ata2-master
UDMA133
> GEOM: create disk ad8 dp=0xc6bea860
> ad8: 35304MB <WDC WD360GD-00FNA0> [71730/16/63] at
ata4-master
UDMA133
> GEOM: create disk ar0 dp=0xc6bee5e0
> ar0: 70609MB <ATA RAID0 array> [9001/255/63] status:
READY subdisks:
> disk0 READY on ad4 at ata2-master
> disk1 READY on ad8 at ata4-master
129c136
< GEOM: create disk cd1 dp=0xc69c9e00
---
> GEOM: create disk cd1 dp=0xc69c8e00
cat KERNEL
#
# GENERIC -- Generic kernel configuration file for
FreeBSD/i386
#
# 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
```

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```

first
# in NOTES.
#
# $FreeBSD: src/sys/i386/conf/GENERIC,v 1.394.2.3
2004/01/26 19:42:11
nectar Exp $
machine          i386
cpu              I686_CPU
ident            NEW521
#To statically compile in device wiring instead of
/boot/device.hints
#hints           "GENERIC.hints"           #Default places to look for
devices.
#makeoptions     DEBUG=-g                  #Build kernel with gdb(1) debug
symbols
options          SCHED_4BSD                #4BSD scheduler
options          INET                      #InterNETworking
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          MD_ROOT                   #MD is a potential root device
options          NFSCLIENT                #Network Filesystem Client
options          NFSSERVER                 #Network Filesystem Server
options          NFS_ROOT                  #NFS usable as /, requires
NFSCLIENT
options          MSDOSFS                   #MSDOS Filesystem
options          CD9660                    #ISO 9660 Filesystem
options          PROCFS                     #Process filesystem (requires
PSEUDODFS)
options          PSEUDODFS                 #Pseudo-filesystem framework
options          COMPAT_43                 #Compatible with BSD 4.3 [KEEP
THIS!]
options          COMPAT_FREEBSD4          #Compatible with FreeBSD4
options          SCSI_DELAY=15000         #Delay (in ms) before
probing SCSI
options          KTRACE                    #ktrace(1) support
options          SYSVSHM                   #SYSV-style shared memory
options          SYSVMSG                   #SYSV-style message queues
options          SYSVSEM                   #SYSV-style semaphores
options          _KPOSIX_PRIORITY_SCHEDULING #Posix P1003_1B
real-time
extensions
options          KBD_INSTALL_CDEV          # install a CDEV entry in
/dev
options          AHC_REG_PRETTY_PRINT      # Print register
bitfields in debug
options          AHD_REG_PRETTY_PRINT      # Print register
bitfields in debug
options          NTFS                      # output. Adds ~128k to driver.
#obvious
options          PFIL_HOOKS                # pfil(9) framework
# Debugging for use in -current
#options         DDB                       #Enable the kernel debugger
#options         INVARIANTS                 #Enable calls of extra sanity
checking
options          INVARIANT_SUPPORT         #Extra sanity checks of
internal structures,
required by INVARIANTS
#options         WITNESS                    #Enable checks to detect deadlocks

```

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```
and cycles
#options      WITNESS_SKIPSPIN      #Don't run witness on
spinlocks for speed
# To make an SMP kernel, the next two are needed
options      SMP                    # Symmetric MultiProcessor Kernel
device      apic                    # I/O APIC
device      isa
device      eisa
device      pci
device      acpi                    # needed to boot w/ MB & proimise
device      pcm                      # sound
device      sbc                      # sound
device      mgadm                    # video
# Floppy drives
device      fdc
# ATA and ATAPI devices
device      ata
device      atadisk                  # ATA disk drives
device      ataraid                  # ATA RAID drives
device      atapicd                  # ATAPI CDROM drives
device      atapifd                  # ATAPI floppy drives
device      atapist                  # ATAPI tape drives
options     ATA_STATIC_ID           #Static device numbering
device      atapicam                # needed for scsi emu 4 dvd+rw
# SCSI Controllers
device      ahb                      # EISA AHA1742 family
device      ahc                      # AHA2940 and onboard AIC7xxx devices
device      ahd                      # AHA39320/29320 and onboard AIC79xx
devices
device      amd                      # AMD 53C974 (Tekram DC-390(T))
device      isp                      # Qlogic family
device      mpt                      # LSI-Logic MPT-Fusion
#device     ncr                      # NCR/Symbios Logic
device      sym                      # NCR/Symbios Logic (newer chipsets +
those of `ncr')
device      trm                      # Tekram DC395U/UW/F DC315U adapters
device      adv                      # Advansys SCSI adapters
device      adw                      # Advansys wide SCSI adapters
device      aha                      # Adaptec 154x SCSI adapters
device      aic                      # Adaptec 15[012]x SCSI adapters,
AIC-6[23]60.
device      bt                      # Buslogic/Mylex MultiMaster SCSI adapters
device      ncv                      # NCR 53C500
device      nsp                      # Workbit Ninja SCSI-3
device      stg                      # TMC 18C30/18C50
# SCSI peripherals
device      scbus                    # SCSI bus (required for SCSI)
device      ch                      # SCSI media changers
device      da                      # Direct Access (disks)
device      sa                      # Sequential Access (tape etc)
device      cd                      # CD
device      pass                    # Passthrough device (direct SCSI
access)
device      ses                      # SCSI Environmental Services (and
SAF-TE)
# atkbd0 controls both the keyboard and the PS/2
mouse
device      atkbd                    # AT keyboard controller
device      atkbd                    # AT keyboard
device      psm                      # PS/2 mouse
device      vga                      # VGA video card driver
device      splash                    # Splash screen and screen saver
```

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```
support
# syscons is the default console driver, resembling an
SCO console
device          sc
# Enable this for the pcvt (VT220 compatible) console
driver
#device         vt
#options        XSERVER          # support for X server on a vt
console
#options        FAT_CURSOR       # start with block cursor
device          agp              # support several AGP chipsets
# Floating point support - do not disable.
device          npx
# Power management support (see NOTES for more
options)
#device         apm
# Add suspend/resume support for the i8254.
device          pmtimer
# Serial (COM) ports
device          sio              # 8250, 16[45]50 based serial ports
# Parallel port
device          ppc
device          ppbus           # Parallel port bus (required)
device          lpt             # Printer
device          plip            # TCP/IP over parallel
device          ppi             # Parallel port interface device
#device         vpo             # Requires scbus and da
# If you've got a "dumb" serial or parallel PCI card
that is
# supported by the puc(4) glue driver, uncomment the
following
# line to enable it (connects to the sio and/or ppc
drivers):
#device         puc
# PCI Ethernet NICs.
device          de              # DEC/Intel DC21x4x ('`Tulip'`)
device          em              # Intel PRO/1000 adapter Gigabit Ethernet
Card
device          txp             # 3Com 3cR990 ('`Typhoon'`)
device          vx              # 3Com 3c590, 3c595 ('`Vortex'`)
# PCI Ethernet NICs that use the common MII bus
controller code.
# NOTE: Be sure to keep the 'device miibus' line in
order to use these
NICs!
device          miibus          # MII bus support
device          bfe             # Broadcom BCM440x 10/100 ethernet
device          bge             # Broadcom BCM570xx Gigabit Ethernet
device          dc              # DEC/Intel 21143 and various workalikes
device          fxp             # Intel EtherExpress PRO/100B (82557,
82558)
device          pcn             # AMD Am79C97x PCI 10/100 (precedence
over 'lnc')
device          re              # RealTek 8139C+/8169/8169S/8110S
device          rl              # RealTek 8129/8139
device          sf              # Adaptec AIC-6915 ('`Starfire'`)
device          sis             # Silicon Integrated Systems SiS 900/SiS
7016
device          sk              # SysKonnect SK-984x and SK-982x gigabit
ethernet
device          ste             # Sundance ST201 (D-Link DFE-550TX)
device          ti              # Alteon Networks Tigon I/II gigabit
```

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```
ethernet
device      tl          # Texas Instruments ThunderLAN
device      tx          # SMC EtherPower II (83c170 ``EPIC'')
device      vr          # VIA Rhine, Rhine II
device      wb          # Winbond W89C840F
device      xl          # 3Com 3c90x (``Boomerang'', ``Cyclone'')
# ISA Ethernet NICs.  pccard nics included.
device      cs          # Crystal Semiconductor CS89x0 NIC
# 'device ed' requires 'device miibus'
device      ed          # NE[12]000, SMC Ultra, 3c503, DS8390
cards
device      ex          # Intel EtherExpress Pro/10 and Pro/10+
device      ep          # Etherlink III based cards
device      fe          # Fujitsu MB8696x based cards
device      ie          # EtherExpress 8/16, 3C507, StarLAN 10
etc.
device      lnc        # NE2100, NE32-VL Lance Ethernet cards
device      sn          # SMC's 9000 series of ethernet chips
device      xe          # Xircom pccard ethernet
# ISA devices that use the old ISA shims
#device     le
# Wireless NIC cards
device      wlan       # 802.11 support
device      an         # Aironet 4500/4800 802.11 wireless NICs.
device      awi        # BayStack 660 and others
device      wi         # WaveLAN/Intersil/Symbol 802.11 wireless
NICs.
#device     wl         # Older non 802.11 Wavelan wireless NIC.
# Pseudo devices - the number indicates how many units
to allocate.
device      random     # Entropy device
device      loop       # Network loopback
device      ether      # Ethernet support
device      sl         # Kernel SLIP
device      ppp        # Kernel PPP
device      tun        # Packet tunnel.
device      pty        # Pseudo-ttys (telnet etc)
device      md         # Memory "disks"
device      gif        # IPv6 and IPv4 tunneling
device      faith      # IPv6-to-IPv4 relaying (translation)
# The `bpf' device enables the Berkeley Packet Filter.
# Be aware of the administrative consequences of
enabling this!
device      bpf        # Berkeley packet filter
# USB support
device      uhci       # UHCI PCI->USB interface
device      ohci       # OHCI PCI->USB interface
device      usb        # USB Bus (required)
#device     udbp       # USB Double Bulk Pipe devices
device      ugen       # Generic
device      uhid       # "Human Interface Devices"
device      ukbd       # Keyboard
device      ulpt       # Printer
device      umass      # Disks/Mass storage - Requires scbus
and da
device      ums        # Mouse
device      urio       # Diamond Rio 500 MP3 player
device      uscanner   # Scanners
# USB Ethernet, requires mii
device      aue        # ADMtek USB ethernet
device      axe        # ASIX Electronics USB ethernet
device      cue        # CATC USB ethernet
```

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```
device          kue          # Kawasaki LSI USB ethernet
cat dmesg.boot.with
Copyright (c) 1992-2004 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 5.2.1-RELEASE-p1 #0: Thu Mar 11 20:04:08 EST
2004
```

```
root@new.foo.com:/usr/obj/usr/521/src/sys/NEW521
Preloaded elf kernel "/boot/kernel/kernel" at
0xc09f7000.
```

```
ACPI APIC Table: <INTEL D865PERL>
```

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

```
CPU: Intel(R) Pentium(R) 4 CPU 2.60GHz (2593.51-MHz
686-class CPU)
```

```
Origin = "GenuineIntel" Id = 0xf29 Stepping = 9
```

```
Features=0xbfebfbff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,APIC,SEP,MTRR,PGE,MCA,CMOV,PAT,PSE36,CLFLU
```

```
Hyperthreading: 2 logical CPUs
```

```
real memory = 1072889856 (1023 MB)
```

```
avail memory = 1032753152 (984 MB)
```

```
FreeBSD/SMP: Multiprocessor System Detected: 2 CPUs
```

```
cpu0 (BSP): APIC ID: 0
```

```
cpu1 (AP): APIC ID: 1
```

```
ioapic0 <Version 2.0> irqs 0-23 on motherboard
```

```
Pentium Pro MTRR support enabled
```

```
acpi0: <INTEL D865PERL> on motherboard
```

```
pcibios: BIOS version 2.10
```

```
Using $PIR table, 12 entries at 0xc00f3310
```

```
acpi0: Power Button (fixed)
```

```
Timecounter "ACPI-safe" frequency 3579545 Hz quality
1000
```

```
acpi_timer0: <24-bit timer at 3.579545MHz> port
0x408-0x40b on acpi0
```

```
acpi_cpu0: <CPU> port 0x530-0x537 on acpi0
```

```
acpi_cpu1: <CPU> port 0x530-0x537 on acpi0
```

```
acpi_cpu1: Failed to attach throttling P_CNT
```

```
pcib0: <ACPI Host-PCI bridge> port 0xcf8-0xcff on
acpi0
```

```
pci0: <ACPI PCI bus> on pcib0
```

```
agp0: <Intel 82865 host to AGP bridge> mem
0xf8000000-0xfbffffff at
```

```
device 0.0 on pci0
```

```
pcib1: <ACPI PCI-PCI bridge> at device 1.0 on pci0
```

```
pci1: <ACPI PCI bus> on pcib1
```

```
drm0: <Matrox G550 (AGP)> mem
```

```
0xfe000000-0xfe7ffffff,0xfe8fc000-0xfe8ffffff,0xea000000-0xebffffff
irq 16 at device 0.0 on pci1
```

```
info: [drm] AGP at 0xf8000000 64MB
```

```
info: [drm] Initialized mga 3.1.0 20021029 on minor 0
```

```
pcib2: <ACPI PCI-PCI bridge> at device 3.0 on pci0
```

```
pci2: <ACPI PCI bus> on pcib2
```

```
em0: <Intel(R) PRO/1000 Network Connection, Version -
1.7.19> port
```

```
0x9c00-0x9c1f mem 0xfe9e0000-0xfe9fffff irq 18 at
device 1.0 on pci2
```

```
em0: Speed:N/A Duplex:N/A
```

```
uhci0: <Intel 82801EB (ICH5) USB controller USB-A>
port 0xcc00-0xcc1f
```

```
irq 16 at device 29.0 on pci0
```

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```
usb0: <Intel 82801EB (ICH5) USB controller USB-A> 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
uhci1: <Intel 82801EB (ICH5) USB controller USB-B>
port 0xd000-0xd01f
irq 19 at device 29.1 on pci0
usb1: <Intel 82801EB (ICH5) USB controller USB-B> on
uhci1
usb1: USB revision 1.0
uhub1: Intel UHCI root hub, class 9/0, rev 1.00/1.00,
addr 1
uhub1: 2 ports with 2 removable, self powered
uhci2: <Intel 82801EB (ICH5) USB controller USB-C>
port 0xd400-0xd41f
irq 18 at device 29.2 on pci0
usb2: <Intel 82801EB (ICH5) USB controller USB-C> on
uhci2
usb2: USB revision 1.0
uhub2: Intel UHCI root hub, class 9/0, rev 1.00/1.00,
addr 1
uhub2: 2 ports with 2 removable, self powered
uhci3: <Intel 82801EB (ICH5) USB controller USB-D>
port 0xd800-0xd81f
irq 16 at device 29.3 on pci0
usb3: <Intel 82801EB (ICH5) USB controller USB-D> on
uhci3
usb3: USB revision 1.0
uhub3: Intel UHCI root hub, class 9/0, rev 1.00/1.00,
addr 1
uhub3: 2 ports with 2 removable, self powered
pci0: <serial bus, USB> at device 29.7 (no driver
attached)
pcib3: <ACPI PCI-PCI bridge> at device 30.0 on pci0
pci3: <ACPI PCI bus> on pcib3
pci3: <display, VGA> at device 0.0 (no driver
attached)
pcm0: <Creative CT5880-C> port 0xbc00-0xbc3f irq 17 at
device 2.0 on
pci3
pcm0: <SigmaTel STAC9721/23 AC97 Codec>
atapci0: <Promise PDC20319 SATA150 controller> port
0xb000-0xb07f,0xb400-0xb40f,0xb800-0xb83f mem
0xfeac0000-0xfeadffff,0xfeaff000-0xfeafffff
irq 19 at device 3.0 on pci3
atapci0: [MPSAFE]
ata2: at 0xfeaff000 on atapci0
ata2: [MPSAFE]
ata3: at 0xfeaff000 on atapci0
ata3: [MPSAFE]
ata4: at 0xfeaff000 on atapci0
ata4: [MPSAFE]
ata5: at 0xfeaff000 on atapci0
ata5: [MPSAFE]
pci3: <serial bus, FireWire> at device 7.0 (no driver
attached)
isab0: <PCI-ISA bridge> at device 31.0 on pci0
isa0: <ISA bus> on isab0
atapci1: <Intel ICH5 UDMA100 controller> port
0xffa0-0xffaf,0-0x3,0-0x7,0-0x3,0-0x7 at device 31.1
```

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```
on pci0
ata0: at 0x1f0 irq 14 on atapci1
ata0: [MPSAFE]
ata1: at 0x170 irq 15 on atapci1
ata1: [MPSAFE]
atapci2: <Intel ICH5 SATA150 controller> port
0xdc00-0xdc0f,0xe000-0xe003,0xe400-0xe407,0xe800-0xe803,0xec00-0xec07
irq 18 at device 31.2 on
pci0
atapci2: [MPSAFE]
ata6: at 0xec00 on atapci2
ata6: [MPSAFE]
ata7: at 0xe400 on atapci2
ata7: [MPSAFE]
pci0: <serial bus, SMBus> at device 31.3 (no driver
attached)
acpi_button0: <Sleep Button> on acpi0
atkbd0: <Keyboard controller (i8042)> port 0x64,0x60
irq 1 on acpi0
atkbd0: <AT Keyboard> flags 0x1 irq 1 on atkbd0
kbd0 at atkbd0
psm0: <PS/2 Mouse> irq 12 on atkbd0
psm0: model MouseMan+, device ID 0
fdc0: <Enhanced floppy controller (i82077, NE72065 or
clone)> port
0x3f7,0x3f4-0x3f5,0x3f2-0x3f3,0x3f0-0x3f1 irq 6 drq 2
on acpi0
fdc0: FIFO enabled, 8 bytes threshold
fd0: <1440-KB 3.5" drive> on fdc0 drive 0
sio0: configured irq 4 not in bitmap of probed irqs 0
sio0: port may not be enabled
sio0 port 0x3f8-0x3ff irq 4 on acpi0
sio0: type 16550A
ppc0 port 0x378-0x37f irq 7 on acpi0
ppc0: Generic chipset (NIBBLE-only) in COMPATIBLE mode
ppbus0: <Parallel port bus> on ppc0
plip0: <PLIP network interface> on ppbus0
lpt0: <Printer> on ppbus0
lpt0: Interrupt-driven port
ppi0: <Parallel I/O> on ppbus0
npx0: [FAST]
npx0: <math processor> on motherboard
npx0: INT 16 interface
orm0: <Option ROM> at iomem 0xc0000-0xc8fff on isa0
pmtimer0 on isa0
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 10.000 msec
acpi_cpu: throttling enabled, 8 steps (100% to 12.5%),
currently 100.0%
acd0: DVDR <PIONEER DVD-RW DVR-106D> at ata0-master
PIO4
GEOM: create disk ad2 dp=0xc6beae60
ad2: 29311MB <Maxtor 53073U6> [59554/16/63] at
ata1-master UDMA66
acd1: DVDROM <TOSHIBA DVD-ROM SD-M1402> at ata1-slave
PIO4
```

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```
GEOM: create disk cd0 dp=0xc69c9600
GEOM: create disk cd1 dp=0xc69c9e00
SMP: AP CPU #1 Launched!
cd1 at ata1 bus 0 target 1 lun 0
cd1: <TOSHIBA DVD-ROM SD-M1402 1010> Removable CD-ROM
SCSI-0 device
cd1: 16.000MB/s transfers
cd1: Attempt to query device size failed: NOT READY,
Medium not present
cd0 at ata0 bus 0 target 0 lun 0
cd0: <PIONEER DVD-RW DVR-106D 1.07> Removable CD-ROM
SCSI-0 device
cd0: 16.000MB/s transfers
cd0: Attempt to query device size failed: NOT READY,
Medium not present
Mounting root from ufs:/dev/ad2s1a
cat dmesg.boot.without
Copyright (c) 1992-2004 The FreeBSD Project.
Copyright (c) 1979, 1980, 1983, 1986, 1988, 1989,
1991, 1992, 1993,
1994
```

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FreeBSD 5.2.1-RELEASE-pl #0: Thu Mar 11 20:04:08 EST 2004

```
root@new.foo.com:/usr/obj/usr/521/src/sys/NEW521
Preloaded elf kernel "/boot/kernel/kernel" at
0xc09f7000.
```

```
ACPI APIC Table: <INTEL D865PERL>
Timecounter "i8254" frequency 1193182 Hz quality 0
CPU: Intel(R) Pentium(R) 4 CPU 2.60GHz (2593.51-MHz
686-class CPU)
Origin = "GenuineIntel" Id = 0xf29 Stepping = 9
```

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

```
Hyperthreading: 2 logical CPUs
real memory = 1072889856 (1023 MB)
avail memory = 1032753152 (984 MB)
FreeBSD/SMP: Multiprocessor System Detected: 2 CPUs
cpu0 (BSP): APIC ID: 0
cpu1 (AP): APIC ID: 1
ioapic0 <Version 2.0> irqs 0-23 on motherboard
Pentium Pro MTRR support enabled
acpi0: <INTEL D865PERL> on motherboard
pcibios: BIOS version 2.10
Using $PIR table, 12 entries at 0xc00f3310
acpi0: Power Button (fixed)
Timecounter "ACPI-fast" frequency 3579545 Hz quality
1000
acpi_timer0: <24-bit timer at 3.579545MHz> port
0x408-0x40b on acpi0
acpi_cpu0: <CPU> port 0x530-0x537 on acpi0
acpi_cpu1: <CPU> port 0x530-0x537 on acpi0
acpi_cpu1: Failed to attach throttling P_CNT
pcib0: <ACPI Host-PCI bridge> port 0xcf8-0xcff on
acpi0
pci0: <ACPI PCI bus> on pcib0
agp0: <Intel 82865 host to AGP bridge> mem
0xf8000000-0xfbffffff at
device 0.0 on pci0
pcib1: <ACPI PCI-PCI bridge> at device 1.0 on pci0
pci1: <ACPI PCI bus> on pcib1
```

freebsd-questions: promise sata tx4 and 3 monitors [long]

```
drm0: <Matrox G550 (AGP)> mem
0xfe000000-0xfe7fffff,0xfe8fc000-0xfe8fffff,0xf2000000-0xf3ffffff
irq 16 at device 0.0 on pci1
info: [drm] AGP at 0xf8000000 64MB
info: [drm] Initialized mga 3.1.0 20021029 on minor 0
pcib2: <ACPI PCI-PCI bridge> at device 3.0 on pci0
pci2: <ACPI PCI bus> on pcib2
em0: <Intel(R) PRO/1000 Network Connection, Version -
1.7.19> port
0xac00-0xac1f mem 0xfe9e0000-0xfe9fffff irq 18 at
device 1.0 on pci2
em0: Speed:N/A Duplex:N/A
uhci0: <Intel 82801EB (ICH5) USB controller USB-A>
port 0xcc00-0xcc1f
irq 16 at device 29.0 on pci0
usb0: <Intel 82801EB (ICH5) USB controller USB-A> 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
uhci1: <Intel 82801EB (ICH5) USB controller USB-B>
port 0xd000-0xd01f
irq 19 at device 29.1 on pci0
usb1: <Intel 82801EB (ICH5) USB controller USB-B> on
uhci1
usb1: USB revision 1.0
uhub1: Intel UHCI root hub, class 9/0, rev 1.00/1.00,
addr 1
uhub1: 2 ports with 2 removable, self powered
uhci2: <Intel 82801EB (ICH5) USB controller USB-C>
port 0xd400-0xd41f
irq 18 at device 29.2 on pci0
usb2: <Intel 82801EB (ICH5) USB controller USB-C> on
uhci2
usb2: USB revision 1.0
uhub2: Intel UHCI root hub, class 9/0, rev 1.00/1.00,
addr 1
uhub2: 2 ports with 2 removable, self powered
uhci3: <Intel 82801EB (ICH5) USB controller USB-D>
port 0xd800-0xd81f
irq 16 at device 29.3 on pci0
usb3: <Intel 82801EB (ICH5) USB controller USB-D> on
uhci3
usb3: USB revision 1.0
uhub3: Intel UHCI root hub, class 9/0, rev 1.00/1.00,
addr 1
uhub3: 2 ports with 2 removable, self powered
pci0: <serial bus, USB> at device 29.7 (no driver
attached)
pcib3: <ACPI PCI-PCI bridge> at device 30.0 on pci0
pci3: <ACPI PCI bus> on pcib3
pcm0: <Creative CT5880-C> port 0xbc00-0xbc3f irq 17 at
device 2.0 on
pci3
pcm0: <SigmaTel STAC9721/23 AC97 Codec>
atapci0: <Promise PDC20319 SATA150 controller> port
0xb000-0xb07f,0xb400-0xb40f,0xb800-0xb83f mem
0xfeac0000-0xfeadffff,0xfeaff000-0xfeafffff
irq 19 at device 3.0 on pci3
atapci0: [MPSAFE]
ata2: at 0xfeaff000 on atapci0
```

freebsd-questions: promise sata tx4 and 3 monitors [long]

```
ata2: [MPSAFE]
ata3: at 0xfeaff000 on atapci0
ata3: [MPSAFE]
ata4: at 0xfeaff000 on atapci0
ata4: [MPSAFE]
ata5: at 0xfeaff000 on atapci0
ata5: [MPSAFE]
pci3: <serial bus, FireWire> at device 7.0 (no driver
attached)
isab0: <PCI-ISA bridge> at device 31.0 on pci0
isa0: <ISA bus> on isab0
atapci1: <Intel ICH5 UDMA100 controller> port
0xffa0-0xffaf,0-0x3,0-0x7,0-0x3,0-0x7 at device 31.1
on pci0
ata0: at 0x1f0 irq 14 on atapci1
ata0: [MPSAFE]
ata1: at 0x170 irq 15 on atapci1
ata1: [MPSAFE]
atapci2: <Intel ICH5 SATA150 controller> port
0xdc00-0xdc0f,0xe000-0xe003,0xe400-0xe407,0xe800-0xe803,0xec00-0xec07
irq 18 at device 31.2 on
pci0
atapci2: [MPSAFE]
ata6: at 0xec00 on atapci2
ata6: [MPSAFE]
ata7: at 0xe400 on atapci2
ata7: [MPSAFE]
pci0: <serial bus, SMBus> at device 31.3 (no driver
attached)
acpi_button0: <Sleep Button> on acpi0
atkbd0: <Keyboard controller (i8042)> port 0x64,0x60
irq 1 on acpi0
atkbd0: <AT Keyboard> flags 0x1 irq 1 on atkbd0
kbd0 at atkbd0
psm0: <PS/2 Mouse> irq 12 on atkbd0
psm0: model MouseMan+, device ID 0
fdc0: <Enhanced floppy controller (i82077, NE72065 or
clone)> port
0x3f7,0x3f4-0x3f5,0x3f2-0x3f3,0x3f0-0x3f1 irq 6 drq 2
on acpi0
fdc0: FIFO enabled, 8 bytes threshold
fd0: <1440-KB 3.5" drive> on fdc0 drive 0
sio0: configured irq 4 not in bitmap of probed irqs 0
sio0: port may not be enabled
sio0 port 0x3f8-0x3ff irq 4 on acpi0
sio0: type 16550A
ppc0 port 0x378-0x37f irq 7 on acpi0
ppc0: Generic chipset (NIBBLE-only) in COMPATIBLE mode
ppbus0: <Parallel port bus> on ppc0
plip0: <PLIP network interface> on ppbus0
lpt0: <Printer> on ppbus0
lpt0: Interrupt-driven port
ppi0: <Parallel I/O> on ppbus0
npx0: [FAST]
npx0: <math processor> on motherboard
npx0: INT 16 interface
orm0: <Option ROM> at iomem 0xc0000-0xc8fff on isa0
pmtimer0 on isa0
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
```

freebsd-questions: promise sata tx4 and 3 monitors [long]

```
vga0: <Generic ISA VGA> at port 0x3c0-0x3df iomem
0xa0000-0xbffff on
isa0
Timecounters tick every 10.000 msec
acpi_cpu: throttling enabled, 8 steps (100% to 12.5%),
currently 100.0%
acd0: DVDR <PIONEER DVD-RW DVR-106D> at ata0-master
PIO4
GEOM: create disk ad2 dp=0xc6beae60
ad2: 29311MB <Maxtor 53073U6> [59554/16/63] at
ata1-master UDMA66
acd1: DVDROM <TOSHIBA DVD-ROM SD-M1402> at ata1-slave
PIO4
GEOM: create disk ad4 dp=0xc6beab60
ad4: 35304MB <WDC WD360GD-00FNA0> [71730/16/63] at
ata2-master UDMA133
GEOM: create disk ad8 dp=0xc6bea860
ad8: 35304MB <WDC WD360GD-00FNA0> [71730/16/63] at
ata4-master UDMA133
GEOM: create disk ar0 dp=0xc6bee5e0
ar0: 70609MB <ATA RAID0 array> [9001/255/63] status:
READY subdisks:
  disk0 READY on ad4 at ata2-master
  disk1 READY on ad8 at ata4-master
GEOM: create disk cd0 dp=0xc69c9600
GEOM: create disk cd1 dp=0xc69c8e00
SMP: AP CPU #1 Launched!
cd1 at ata1 bus 0 target 1 lun 0
cd1: <TOSHIBA DVD-ROM SD-M1402 1010> Removable CD-ROM
SCSI-0 device
cd1: 16.000MB/s transfers
cd1: Attempt to query device size failed: NOT READY,
Medium not present
cd0 at ata0 bus 0 target 0 lun 0
cd0: <PIONEER DVD-RW DVR-106D 1.07> Removable CD-ROM
SCSI-0 device
cd0: 16.000MB/s transfers
cd0: Attempt to query device size failed: NOT READY,
Medium not present
Mounting root from ufs:/dev/ad2s1a
```

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