

## Re: 6.1-RELEASE / 6.2 Kernel Crash...

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/isp/2006-12/msg00031.html>

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- *From:* Jan Knepper <[jan@xxxxxxxxxxxxxxxxxxxxx](mailto:jan@xxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Tue, 26 Dec 2006 19:03:00 -0500
- 

Hmmm...

I put that in for now... but does that not mean you basically disabled SMP as well?

I thought (could be wrong) that SMP required APCI to be active?

When you run "top" does it display with process runs on CPU 0/1?

Thanks!

Jan

Tim McCullagh wrote:

Hi Jan

try editing your loader.conf

I had a similar sounding issue. As soon as I did the following the system became stable immediately. It was also on a Tyan Mainboard, although with dual Xeon's

```
# vi /boot/loader.conf  
hint.apic.0.disabled="1"
```

Regards

Tim

```
----- Original Message -----  
From: "Jan Knepper" <jan@xxxxxxxxxxxxxxxxxxxxx>  
To: "FreeBSD ISP" <FreeBSD-ISP@xxxxxxxxxxxxx>; "FreeBSD Hackers"  
<FreeBSD-Hackers@xxxxxxxxxxxxx>  
Sent: Wednesday, December 27, 2006 7:09 AM  
Subject: 6.1-RELEASE / 6.2 Kernel Crash...
```

All, (sorry for the cross post)

Something goofy is going on with a 6.x kernel.

Dual Opteron Server (Tyan motherboard). 2 GB RAM... 2 x 256 GB SATA

Re: 6.1-RELEASE / 6.2 Kernel Crash...

HD's.

Just upgraded this machine from FreeBSD 5.5-STABLE to 6.2RC# and than down to 6.1-RELEASE.

For some reason FreeBSD 6.1 seems to be very unstable. I use a custom kernel, (most devices not present in the system have been removed).

When I create an SMP kernel after an undefined about of time which I have seen varying from 5 minutes up to about 6 hours the kernel will just hang. Things that seem to accelerate/aggravate this are running CVSup from a repository on the same system.

Something else that seems to push it is `dd if=/dev/ad4 if=/dev/ad6 bs=64m` (copying the master disk to the supposed slave, however geom is not active and module `geom_mirror` is not loaded!

When I take SMP out of the kernel config and rebuild and install instead of hanging, the system seems to crash and reboot when I perform the same action.

Also... When I first upgraded I did get an error during boot:

```
kernel: module_register_init: MOD_LOAD (amr_linux, 0xffffffff805db120, 0) error 6
```

I disabled device `amr` (under RAID controllers) in the kernel config which took care of this.

Following the bootlog. If any of you had any idea what the problem might be I definitely would like to know.

Thanks!

Jan

```
syslogd: kernel boot file is /boot/kernel/kernel
```

```
kernel: Copyright (c) 1992-2006 The FreeBSD Project.
```

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

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

```
kernel: FreeBSD 6.1-RELEASE #4: Tue Dec 26 12:03:35 EST 2006
```

```
kernel:
```

```
root@xxxxxxxxxxxxxxxxxx:/usr/src/sys/amd64/compile/digitaldaemon
```

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

```
kernel: CPU: AMD Opteron(tm) Processor 246 (1993.53-MHz K8-class CPU)
```

```
kernel: Origin = "AuthenticAMD" Id = 0xf5a Stepping = 10
```

```
kernel:
```

```
Features=0x78bfbff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,APIC,SEP,MTRR,PGE,MCA,CN
```

```
kernel: AMD
```

```
Features=0xe0500800<SYSCALL,NX,MMX+,LM,3DNow+,3DNow>
```

```
kernel: real memory = 2147418112 (2047 MB)
```

```
kernel: avail memory = 2065596416 (1969 MB)
```

Re: 6.1-RELEASE / 6.2 Kernel Crash...

kernel: ACPI APIC Table: <A M I OEMAPIC >  
kernel: FreeBSD/SMP: Multiprocessor System Detected: 2 CPUs  
kernel: cpu0 (BSP): APIC ID: 0  
kernel: cpu1 (AP): APIC ID: 1  
kernel: MADT: Forcing active-low polarity and level trigger for SCI  
kernel: ioapic0 <Version 1.1> irqs 0-23 on motherboard  
kernel: ioapic1 <Version 1.1> irqs 24-27 on motherboard  
kernel: ioapic2 <Version 1.1> irqs 28-31 on motherboard  
kernel: netsmb\_dev: loaded  
kernel: acpi0: <A M I OEMRSDT> on motherboard  
kernel: acpi0: Power Button (fixed)  
kernel: Timecounter "ACPI-fast" frequency 3579545 Hz quality 1000  
kernel: acpi\_timer0: <24-bit timer at 3.579545MHz> port 0x5008-0x500b  
on acpi0  
kernel: cpu0: <ACPI CPU> on acpi0  
kernel: acpi\_throttle0: <ACPI CPU Throttling> on cpu0  
kernel: cpu1: <ACPI CPU> on acpi0  
kernel: pcib0: <ACPI Host-PCI bridge> port 0xcf8-0xcff on acpi0  
kernel: pci0: <ACPI PCI bus> on pcib0  
kernel: pcib1: <ACPI PCI-PCI bridge> at device 6.0 on pci0  
kernel: pci3: <ACPI PCI bus> on pcib1  
kernel: ohci0: <OHCI (generic) USB controller> mem 0xff3fd000-0xff3fdfff  
irq 19 at device 0.0 on pci3  
kernel: ohci0: [GIANT-LOCKED]  
kernel: usb0: OHCI version 1.0, legacy support  
kernel: usb0: <OHCI (generic) USB controller> on ohci0  
kernel: usb0: USB revision 1.0  
kernel: uhub0: AMD OHCI root hub, class 9/0, rev 1.00/1.00, addr 1  
kernel: uhub0: 3 ports with 3 removable, self powered  
kernel: ohci1: <OHCI (generic) USB controller> mem 0xff3fe000-0xff3fefff  
irq 19 at device 0.1 on pci3  
kernel: ohci1: [GIANT-LOCKED]  
kernel: usb1: OHCI version 1.0, legacy support  
kernel: usb1: <OHCI (generic) USB controller> on ohci1  
kernel: usb1: USB revision 1.0  
kernel: uhub1: AMD OHCI root hub, class 9/0, rev 1.00/1.00, addr 1  
kernel: uhub1: 3 ports with 3 removable, self powered  
kernel: xl0: <3Com 3c905C-TX Fast Etherlink XL> port 0x8080-0x80ff  
mem 0xff3ff800-0xff3ff87f irq 16 at device 10.0 on pci3  
kernel: miibus0: <MII bus> on xl0  
kernel: ukphy0: <Generic IEEE 802.3u media interface> on miibus0  
kernel: ukphy0: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX,  
auto  
kernel: xl0: Ethernet address: 00:04:75:ad:ac:0a  
kernel: atapci0: <SiI 3114 SATA150 controller> port  
0x8c00-0x8c07,0x8880-0x8883,0x8800-0x8807,0x8480-0x8483,0x8400-0x840f  
mem 0xff3ffc00-0xff3fffff irq 17 at device 11.0 on pci3  
kernel: ata2: <ATA channel 0> on atapci0  
kernel: ata3: <ATA channel 1> on atapci0  
kernel: ata4: <ATA channel 2> on atapci0  
kernel: ata5: <ATA channel 3> on atapci0

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```
kernel: fwohci0: <Texas Instruments TSB43AB22/A> mem
0xff3ff000-0xff3ff7ff,0xff3f8000-0xff3fbfff irq 19 at device 12.0 on pci3
kernel: fwohci0: OHCI version 1.10 (ROM=1)
kernel: fwohci0: No. of Isochronous channels is 4.
kernel: fwohci0: EUI64 00:e0:81:00:00:30:4c:06
kernel: fwohci0: Phy 1394a available S400, 2 ports.
kernel: fwohci0: Link S400, max_rec 2048 bytes.
kernel: firewire0: <IEEE1394(FireWire) bus> on fwohci0
kernel: fwe0: <Ethernet over FireWire> on firewire0
kernel: if_fwe0: Fake Ethernet address: 02:e0:81:30:4c:06
kernel: fwe0: Ethernet address: 02:e0:81:30:4c:06
kernel: fwe0: if_start running deferred for Giant
kernel: sbp0: <SBP-2/SCSI over FireWire> on firewire0
kernel: fwohci0: Initiate bus reset
kernel: fwohci0: node_id=0xc800ffc0, gen=1, CYCLEMASTER mode
kernel: firewire0: 1 nodes, maxhop <= 0, cable IRM = 0 (me)
kernel: firewire0: bus manager 0 (me)
kernel: isab0: <PCI-ISA bridge> at device 7.0 on pci0
kernel: isa0: <ISA bus> on isab0
kernel: atapci1: <AMD 8111 UDMA133 controller> port
0x1f0-0x1f7,0x3f6,0x170-0x177,0x376,0xffa0-0xffaf at device 7.1 on pci0
kernel: ata0: <ATA channel 0> on atapci1
kernel: ata1: <ATA channel 1> on atapci1
kernel: pci0: <serial bus, SMBus> at device 7.2 (no driver attached)
kernel: pci0: <bridge> at device 7.3 (no driver attached)
kernel: pci0: <multimedia, audio> at device 7.5 (no driver attached)
kernel: pcib2: <ACPI PCI-PCI bridge> at device 10.0 on pci0
kernel: pci2: <ACPI PCI bus> on pcib2
kernel: bge0: <Broadcom BCM5703 Gigabit Ethernet, ASIC rev. 0x1002>
mem 0xff1f0000-0xff1fffff irq 24 at device 9.0 on pci2
kernel: miibus1: <MII bus> on bge0
kernel: brgphy0: <BCM5703 10/100/1000baseTX PHY> on miibus1
kernel: brgphy0: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX,
1000baseTX, 1000baseTX-FDX, auto
kernel: bge0: Ethernet address: 00:e0:81:2d:ee:f7
kernel: pci0: <base peripheral, interrupt controller> at device 10.1 (no driver
attached)
kernel: pcib3: <ACPI PCI-PCI bridge> at device 11.0 on pci0
kernel: pci1: <ACPI PCI bus> on pcib3
kernel: pci0: <base peripheral, interrupt controller> at device 11.1 (no driver
attached)
kernel: pcib4: <ACPI Host-PCI bridge> on acpi0
kernel: pci4: <ACPI PCI bus> on pcib4
kernel: pcib5: <ACPI PCI-PCI bridge> at device 1.0 on pci4
kernel: pci5: <ACPI PCI bus> on pcib5
kernel: pci5: <display, VGA> at device 0.0 (no driver attached)
kernel: pci5: <display> at device 0.1 (no driver attached)
kernel: acpi_button0: <Power Button> on acpi0
kernel: atkbd0: <Keyboard controller (i8042)> port 0x60,0x64 irq 1 on
acpi0
kernel: atkbd0: <AT Keyboard> irq 1 on atkbd0
```

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kernel: kbd0 at atkbd0  
kernel: atkbd0: [GIANT-LOCKED]  
kernel: psm0: <PS/2 Mouse> irq 12 on atkbdc0  
kernel: psm0: [GIANT-LOCKED]  
kernel: psm0: model IntelliMouse Explorer, device ID 4  
kernel: sio0: <16550A-compatible COM port> port 0x3f8-0x3ff irq 4 flags  
0x10 on acpi0  
kernel: sio0: type 16550A  
kernel: sio1: <16550A-compatible COM port> port 0x2f8-0x2ff irq 3 on  
acpi0  
kernel: sio1: type 16550A  
kernel: fdc0: <floppy drive controller (FDE)> port 0x3f0-0x3f5,0x3f7 irq 6  
drq 2 on acpi0  
kernel: fdc0: [FAST]  
kernel: ppc0: <Standard parallel printer port> port 0x378-0x37f irq 7 on  
acpi0  
kernel: ppc0: Generic chipset (NIBBLE-only) in COMPATIBLE mode  
kernel: ppbus0: <Parallel port bus> on ppc0  
kernel: orm0: <ISA Option ROMs> at iomem  
0xc0000-0xccfff,0xcd000-0xd17ff,0xd1800-0xd1fff,0  
xd2000-0xd2fff on isa0  
kernel: sc0: <System console> at flags 0x100 on isa0  
kernel: sc0: VGA <16 virtual consoles, flags=0x300>  
kernel: vga0: <Generic ISA VGA> at port 0x3c0-0x3df iomem  
0xa0000-0xbffff on isa0  
kernel: ugen0: American Power Conversion Back-UPS RS 1500 FW:8.g9 .D  
USB FW:g9, rev 1.10/1.06, addr 2  
kernel: Timecounters tick every 1.000 msec  
kernel: ipfw2 (+ipw6) initialized, divert loadable, rule-based forwarding  
enabled, default to deny, logging limited to 100 packets/entry by default  
kernel: acd0: DVDR <NEC DVD RW ND-3520A/1.04> at ata0-master  
UDMA33  
kernel: ad4: 238475MB <HDS722525VLSA80 V36OA6MA> at  
ata2-master SATA150  
kernel: ad6: 238475MB <HDS722525VLSA80 V36OA6MA> at  
ata3-master SATA150  
kernel: SMP: AP CPU #1 Launched!  
kernel: Trying to mount root from ufs:/dev/ad4s1a

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