

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

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/isp/2006-12/msg00041.html>

- *From:* Jan Knepper <jan@xxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 27 Dec 2006 07:37:31 -0500
-

FreeBSD 5.x branch run on that machine for almost 2 years without a problem and magically the same time period in *hours* that I upgrade the machine I get hardware problems too? Not an impossible coincidence, but not very likely...

Thanks!
Jan

Mario Theodoridis wrote:

is it just me, or is this beginning to sound like hardware problems?

mario;>

On Tuesday 26 December 2006 17:24, Jan Knepper wrote:

Tried that and started

```
dd if=/dev/ad4 if=/dev/ad6 bs=1m
```

Kernel went in panic and automatic reboot in about an hour... <sigh>

It gets worse... when it does reboot the disk drive will not show in the BIOS, nor does FreeBSD recognize it during boot. The system actually has to be turned off to reset the drive...

This is bad...

Any other suggestions?

Thanks!
Jan

Tim McCullagh wrote:

Hi Jan

try editing your loader.conf

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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@xxxxxxxxxxxxxxxxxxxx>  
To: "FreeBSD ISP" <FreeBSD-ISP@xxxxxxxxxxxx>;  
"FreeBSD Hackers"  
<FreeBSD-Hackers@xxxxxxxxxxxx>  
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 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

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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@xxxxxxxxxxxxxxxxxxx:/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,MTR
MCA,CMOV,PAT,PSE36,CLFLUSH,MMX,FXSR,SSE,SSE2>
```

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```
kernel: AMD
Features=0xe0500800<SYSCALL,NX,MMX+,LM,3DNow+,3DNow>
kernel: real memory = 2147418112 (2047
MB)
kernel: avail memory = 2065596416 (1969
MB)
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
```

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```
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 0xff3ffc00-0xff3ffff 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
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.
```

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```
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)
```

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```
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: atkbdc0: <Keyboard controller
(i8042)> port 0x60,0x64 irq 1
on acpi0
kernel: atkbd0: <AT Keyboard> irq 1 on
atkbdc0
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
```

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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 (+ipv6) 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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