

getty triggers trap 12

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2006-10/msg01141.html>

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We have three Tyan GT20 (2865) NForce4 based machines with a single-core Opteron and 2 GB of RAM, running stable i386 from two days ago. (dmesg and kernconf attached.)

Often, but not always, we get the following panic when logging out on the serial console, or when rebooting the system.

Another machine with the same mainboard does not exhibit this behavior.

```
Fatal trap 12: page fault while in kernel mode
fault virtual address = 0x0
fault code = supervisor read, page not present
instruction pointer = 0x20:0x0
stack pointer = 0x28:0xe8146904
frame pointer = 0x28:0xe8146928
code segment = base 0x0, limit 0xffff, type 0x1b
= DPL 0, pres 1, def32 1, gran 1
processor eflags = interrupt enabled, resume, IOPL = 0
current process = 41877 (getty)
trap number = 12
panic: page fault
Uptime: 23h33m52s
Physical memory: 1018 MB
Dumping 167 MB: 152 136 120 104 88 72 56 40 24 8
Dump complete
Automatic reboot in 15 seconds - press a key on the console to abort
KDB: enter: Break sequence on console
[thread pid 41877 tid 100339 ]
Stopped at kdb_enter+0x30: leave
db> trace
Tracing pid 41877 tid 100339 td 0xc677b600
kdb_enter(c06e1453,c47f98f8,26d2e9e,f000,c06ff798,...) at kdb_enter+0x30
siointr1(c47f9800,c47e7e00,c46a8cc4,e8146710,c069241c,...) at siointr1 +0xe1
siointr(c47f9800,c6c5e200,e8146710,0,c677b600,...) at siointr+0x3f
intr_execute_handlers(c46a8cc4,e8146728,e8146770,c068e5e3,38,...) at intr_execute_handlers+0x10c
lapic_handle_intr(38) at lapic_handle_intr+0x3a
Xapic_isr1() at Xapic_isr1+0x33
--- interrupt, eip = 0xc06980a7, esp = 0xe814676c, ebp = 0xe8146770 ---
spinlock_exit(f0c3,b492,e81467a4,c06a57d5,c7fa80ff,...) at spinlock_exit+0x27
```

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```
getit(c7fa80ff,1b,f4240,0,10,...) at getit+0x63
DELAY(186a0,f,c469f000,e81467f0,c050a834,...) at DELAY+0xc5
shutdown_panic(0,104,c06d0c9d,c052aa40,e81467dc,...) at shutdown_panic +0x32
boot(104,c0723860,c06c3ca9,e8146828,100,...) at boot+0x594
panic(c06c3ca9,c06e4bbe,c738b7d0,1,1,...) at panic+0x13d
trap_fatal(e81468c4,0,1,0,c058545a,...) at trap_fatal+0x30e
trap_pfault(e81468c4,0,0,c677b600,0,...) at trap_pfault+0x242
trap(8,28,28,c47f9400,c47f9800,...) at trap+0x34d
calltrap() at calltrap+0x5
---- trap 0xc, eip = 0, esp = 0xe8146904, ebp = 0xe8146928 ----
(null)(c47f94ac,0,0) at 0
ttwwakeup(c47f9400,c677b600,3,c47f9800,3,...) at ttwwakeup+0xe4
comstart(c47f9400,1c200,0,14698c,1,...) at comstart+0x2d7
comparam(c47f9400,c47f94c4,0,c07029c0,e81469bc,...) at comparam+0x31f
ttyopen(c47f7000,3,2000,c677b600,0,...) at ttyopen+0x24f
giant_open(c47f7000,3,2000,c677b600,e8146a18,...) at giant_open+0x71
devfs_open(e8146a50,e8146b0c,c058423d,c06f7580,e8146a50,...) at devfs_open+0x272
VOP_OPEN_APV(c06f7580,e8146a50,e8146a68,2274c0,0,...) at VOP_OPEN_APV +0x43
vn_open_cred(e8146bc0,e8146cc0,1,c46abe80,0,...) at vn_open_cred+0x49d
vn_open(e8146bc0,e8146cc0,1,0,c4963cf8,...) at vn_open+0x33
kern_open(c677b600,804f9c0,0,3,3,...) at kern_open+0xc8
open(c677b600,e8146d04,c,c677b600,8053000,...) at open+0x36
syscall(3b,3b,3b,2,804f9c0,...) at syscall+0x362
Xint0x80_syscall() at Xint0x80_syscall+0x1f
---- syscall (5, FreeBSD ELF32, open), eip = 0x28150747, esp = 0xbfbfee1c, ebp = 0xbfbfee48 ----
```

(kgdb) bt

```
#0 doadump () at pcpu.h:165
#1 0xc050a7b4 in boot (howto=260) at /usr/src/sys/kern/ kern_shutdown.c:409
#2 0xc050ab0d in panic (fmt=0xc06c3ca9 "%s")
at /usr/src/sys/kern/kern_shutdown.c:565
#3 0xc06a250e in trap_fatal (frame=0xe81468c4, eva=0)
at /usr/src/sys/i386/i386/trap.c:837
#4 0xc06a21d2 in trap_pfault (frame=0xe81468c4, usermode=0, eva=0)
at /usr/src/sys/i386/i386/trap.c:745
#5 0xc06a1d4d in trap (frame=
{tf_fs = 8, tf_es = 40, tf_ds = 40, tf_edi = -998272000, tf_esi = -998270976, tf_ebp = -401315544, tf_isp =
-401315600, tf_ebx = -998272000, tf_edx = -998271828, tf_ecx = -998272000, tf_eax = 0, tf_trapno = 12,
tf_err = 0, tf_eip = 0, tf_cs = 32, tf_eflags = 66118, tf_esp = -1068597499, tf_ss = 0})
at /usr/src/sys/i386/i386/trap.c:435
#6 0xc068e22a in calltrap () at /usr/src/sys/i386/i386/exception.s:139
#7 0x00000000 in ?? ()
Previous frame inner to this frame (corrupt stack?)
```

(kgdb) list ttwwakeup+0xe4

Junk at end of line specification.

(kgdb) print ttwwakeup

\$1 = { void (struct tty *)} 0xc0544f10 <ttwwakeup>

(kgdb) list *0xc0544ff4

0xc0544ff4 is in ttwwakeup (/usr/src/sys/kern/tty.c:2459).

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```
2454 tp->t_outq.c_cc <= tp->t_olowat) {
2455 CLR(tp->t_state, TS_SO_OLOWAT);
2456 wakeup(TSA_OLOWAT(tp));
2457 }
2458 KNOTE_UNLOCKED(&tp->t_wsel.si_note, 0);
2459 }
2460
2461 /*
2462 * Look up a code for a specified speed in a conversion table;
2463 * used by drivers to map software speed values to hardware parameters.
```

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FreeBSD 6.2-PRERELEASE #2: Wed Oct 25 16:27:46 CEST 2006

root@xxxxxxxxxxxxxxxxxxxxxx:/usr/obj/usr/src/sys/SHUTTLE

acpi_alloc_wakeup_handler: can't alloc wake memory

ACPI APIC Table: <Nvidia AWRDACPI>

Timecounter "i8254" frequency 1193182 Hz quality 0

CPU: AMD Opteron(tm) Processor 148 (2210.20-MHz 686-class CPU)

Origin = "AuthenticAMD" Id = 0x20f71 Stepping = 1

Features=0x78bfbff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,APIC,SEP,MTRR,PGE,MCA,CMOV,PAT,PSE3

Features2=0x1<SSE3>

AMD Features=0xe2500800<SYSCALL,NX,MMX+,FFXSR,LM,3DNow+,3DNow>

AMD Features2=0x1<LAHF>

real memory = 2146304000 (2046 MB)

avail memory = 2094981120 (1997 MB)

ioapic0 <Version 1.1> irqs 0–23 on motherboard

kbd1 at kbdmux0

acpi0: <Nvidia AWRDACPI> on motherboard

acpi_bus_number: can't get _ADR

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acpi0: Power Button (fixed)

acpi_bus_number: can't get _ADR

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unknown: I/O range not supported

Timecounter "ACPI-fast" frequency 3579545 Hz quality 1000

acpi_timer0: <24-bit timer at 3.579545MHz> port 0x1008–0x100b on acpi0

cpu0: <ACPI CPU> on acpi0

acpi_button0: <Power Button> on acpi0

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

pci0: <ACPI PCI bus> on pcib0

pci0: <memory> at device 0.0 (no driver attached)

isab0: <PCI-ISA bridge> at device 1.0 on pci0

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isa0: <ISA bus> on isab0
pci0: <serial bus, SMBus> at device 1.1 (no driver attached)
ohci0: <OHCI (generic) USB controller> mem 0xfebfff000–0xfebffff irq 21 at device 2.0 on pci0
ohci0: [GIANT–LOCKED]
usb0: OHCI version 1.0, legacy support
usb0: <OHCI (generic) USB controller> on ohci0
usb0: USB revision 1.0
uhub0: nVidia OHCI root hub, class 9/0, rev 1.00/1.00, addr 1
uhub0: 8 ports with 8 removable, self powered
ehci0: <NVIDIA nForce4 USB 2.0 controller> mem 0xfeb00000–0xfeb000ff irq 22 at device 2.1 on pci0
ehci0: [GIANT–LOCKED]
usb1: waiting for BIOS to give up control
usb1: timed out waiting for BIOS
usb1: EHCI version 1.0
usb1: companion controller, 4 ports each: usb0
usb1: <NVIDIA nForce4 USB 2.0 controller> on ehci0
usb1: USB revision 2.0
uhub1: nVidia EHCI root hub, class 9/0, rev 2.00/1.00, addr 1
uhub1: 8 ports with 8 removable, self powered
atapci0: <nVidia nForce CK804 UDMA133 controller> port
0x1f0–0x1f7,0x3f6,0x170–0x177,0x376,0xe000–0xe00f at device 6.0 on pci0
ata0: <ATA channel 0> on atapci0
ata1: <ATA channel 1> on atapci0
atapci1: <nVidia nForce CK804 SATA300 controller> port
0x9f0–0x9f7,0xbf0–0xbf3,0x970–0x977,0xb70–0xb73,0xcc00–0xcc0f mem 0xfebfb000–0xfebfbfff irq 23 at
device 7.0 on pci0
ata2: <ATA channel 0> on atapci1
ata3: <ATA channel 1> on atapci1
atapci2: <nVidia nForce CK804 SATA300 controller> port
0x9e0–0x9e7,0xbe0–0xbe3,0x960–0x967,0xb60–0xb63,0xb800–0xb80f mem 0xfebfa000–0xfebfafff irq 21
at device 8.0 on pci0
ata4: <ATA channel 0> on atapci2
ata5: <ATA channel 1> on atapci2
pcib1: <ACPI PCI–PCI bridge> at device 9.0 on pci0
pci1: <ACPI PCI bus> on pcib1
pci1: <display, VGA> at device 5.0 (no driver attached)
nve0: <NVIDIA nForce MCP9 Networking Adapter> port 0xb400–0xb407 mem 0xfebf9000–0xfebf9fff irq
22 at device 10.0 on pci0
nve0: Ethernet address 00:e0:81:59:cd:e9
miibus0: <MII bus> on nve0
ukphy0: <Generic IEEE 802.3u media interface> on miibus0
ukphy0: 10baseT, 10baseT–FDX, 100baseTX, 100baseTX–FDX, 1000baseT, 1000baseT–FDX, auto
nve0: Ethernet address: 00:e0:81:59:cd:e9
pcib2: <ACPI PCI–PCI bridge> at device 11.0 on pci0
pci2: <ACPI PCI bus> on pcib2
pcib3: <ACPI PCI–PCI bridge> at device 12.0 on pci0
pci3: <ACPI PCI bus> on pcib3
pcib4: <ACPI PCI–PCI bridge> at device 13.0 on pci0
pci4: <ACPI PCI bus> on pcib4
bge0: <Broadcom BCM5750 B1, ASIC rev. 0x4101> mem 0xfe5f0000–0xfe5ffff irq 19 at device 0.0 on pci4
miibus1: <MII bus> on bge0

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brgphy0: <BCM5750 10/100/1000baseTX PHY> on miiibus1
brgphy0: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX, 1000baseTX, 1000baseTX-FDX, auto
bge0: Ethernet address: 00:e0:81:59:cd:e8
pcib5: <ACPI PCI-PCI bridge> at device 14.0 on pci0
pci5: <ACPI PCI bus> on pcib5
acpi_tz0: <Thermal Zone> on acpi0
fdc0: <floppy drive controller> port 0x3f0-0x3f5,0x3f7 irq 6 drq 2 on acpi0
fdc0: [FAST]
sio0: <16550A-compatible COM port> port 0x3f8-0x3ff irq 4 flags 0x10 on acpi0
sio0: type 16550A, console
sio1: <16550A-compatible COM port> port 0x2f8-0x2ff irq 3 on acpi0
sio1: type 16550A
atkbd0: <Keyboard controller (i8042)> port 0x60,0x64 irq 1 on acpi0
atkbd0: <AT Keyboard> irq 1 on atkbd0
kbd0 at atkbd0
atkbd0: [GIANT-LOCKED]
pmtimer0 on isa0
orm0: <ISA Option ROMs> at iomem 0xc0000-0xc7fff,0xc8000-0xcbfff,0xcc000-0xcd7ff on isa0
sc0: <System console> at flags 0x100 on isa0
sc0: VGA <16 virtual consoles, flags=0x300>
vga0: <Generic ISA VGA> at port 0x3c0-0x3df iomem 0xa0000-0xbffff on isa0
Timecounter "TSC" frequency 2210195980 Hz quality 800
Timecounters tick every 1.000 msec
acd0: CDROM <CD-224E-N/1.AA> at ata0-slave UDMA33
ad4: 239372MB <Maxtor 7Y250M0 YAR51HW0> at ata2-master SATA150
ad6: 239372MB <Maxtor 7Y250M0 YAR51EW0> at ata3-master SATA150
Trying to mount root from ufs:/dev/ad4s1a
WARNING: / was not properly dismounted
bge0: link state changed to UP
machine i386
cpu I686_CPU
ident SHUTTLE

makeoptions DEBUG=-g # Build kernel with gdb(1) debug symbols

options SCHED_4BSD # 4BSD scheduler
options PREEMPTION # Enable kernel thread preemption
options INET # InterNETworking
#options INET6 # IPv6 communications protocols
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 PSEUDOFS # Pseudo-filesystem framework
options COMPAT_43 # Compatible with BSD 4.3 [KEEP THIS!]
options KTRACE # ktrace(1) support
options SYSVSHM # SYSV-style shared memory

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```
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 ADAPTIVE_GIANT # Giant mutex is adaptive.
```

```
options GEOM_MIRROR
```

```
options KDB
options KDB_UNATTENDED
options DDB
options BREAK_TO_DEBUGGER
options ALT_BREAK_TO_DEBUGGER
```

```
# Make map large enough for 4 GB RAM
options VM_KMEM_SIZE_MAX=(768*1024*1024)
```

```
device apic # I/O APIC
```

```
# Bus support.
```

```
device eisa
```

```
device pci
```

```
# Floppy drives
```

```
device fdc
```

```
# ATA and ATAPI devices
```

```
device ata
```

```
device atadisk # ATA disk drives
```

```
device atapid # ATAPI CDROM drives
```

```
options ATA_STATIC_ID # Static device numbering
```

```
# 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 kbdmux # keyboard multiplexer
```

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

```
# syscons is the default console driver, resembling an SCO console
```

```
device sc
```

```
device agp # support several AGP chipsets
```

```
device pmtimer
```

```
# Serial (COM) ports
```

```
device sio # 8250, 16[45]50 based serial ports
```

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PCI Ethernet NICs.

device em # Intel PRO/1000 adapter Gigabit Ethernet Card

device miibus # MII bus support

device bge # Broadcom BCM570xx Gigabit Ethernet

device fxp # Intel EtherExpress PRO/100B (82557, 82558)

device nve # nVidia nForce MCP on-board Ethernet Networking

device vlan #VLAN support (needs miibus)

Pseudo devices.

device loop # Network loopback

device random # Entropy device

device ether # Ethernet support

device tun # Packet tunnel.

device pty # Pseudo-ttys (telnet etc)

device md # Memory "disks"

The `bpf` device enables the Berkeley Packet Filter.

Be aware of the administrative consequences of enabling this!

Note that `bpf` is required for DHCP.

device bpf # Berkeley packet filter

USB support

device uhci # UHCI PCI->USB interface

device ohci # OHCI PCI->USB interface

device ehci # EHCI PCI->USB interface (USB 2.0)

device usb # USB Bus (required)

device ugen # Generic

device uhid # "Human Interface Devices"

device ukbd # Keyboard

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