

DragonFlyBSD - Bug #1123

Network crash

08/16/2008 07:38 PM - t-df

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			

Description

I'm running the release version of 2.0 unpatched; not tested on prior versions. My Dell Inspiron 8000 laptop has 3 nics: dc0 (xircom cardbus), xl0 (built-in) and aue0 (3com usb nic). I have a dlink wireless router attached to the 3com usb nic. The laptop is running as a router to the internet. I can ping the dlink from a pc on the local network, but when I try to http to its admin interface, DF crashes with the following error:

```
panic: assertion: IS_SERIALIZED((ifp->if_serializer)) in if_devstart
Trace beginning at frame 0xca615c34
panic(ca615c58,ca733f44,ca733d10,ca733d10,ca615c70) at panic+0x8c
panic(c054c837,c0583098,c052cf87,c144dd00,ca733f44) at panic+0x8c
if_devstart(ca733d10) at if_devstart+0x34
aue_txeof(c13ade78,ca733f44,0) at aue_txeof+0xa7
usb_transfer_complete(c13ade78,c1307180,ffffff,100000,c13adee8) at
usb_transfer_complete+0x149
uhci_idone(c94b0488,c13adf00,c13adecc) at uhci_idone+0x120
uhci_softintr(ca7868c0) at uhci_softintr+0xcd
usb_softschedintr(ca7868c0,0,c06426c8,ff800000,ca615d2c) at
usb_softschedintr+0xd
uhci_intr1(ca615d84,c02ada13,ca7868c0,0,48) at uhci_intr1+0x199
uhci_intr(ca7868c0,0) at uhci_intr+0x26
ithread_handler(a,0,0,0,0) at ithread_handler+0xa2
lwkt_exit() at lwkt_exit
Debugger("panic")
Stopped at Debugger+0x34: movb $0,in_Debugger.3949
```

OpenBSD works on this same hardware. See dmesg below and let me know if you need anything else.

Tim

```
Copyright (c) 2003-2008 The DragonFly Project.
Copyright (c) 1992-2003 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.
DragonFly 2.0.0-RELEASE #3: Mon Aug 4 19:22:16 MST 2008
root@mesquite.timdarby.com:/usr/obj/usr/src/sys/MYKERNEL
TSC clock: 698429079 Hz, i8254 clock: 1193112 Hz
CPU: Intel Pentium III (698.47-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,PAT,PSE36,MMX,FXSR,SSE>
real memory = 335454208 (327592K bytes)
avail memory = 312328192 (305008K bytes)
Preloaded elf kernel "/kernel" at 0xc07cf000.
Preloaded elf module "/modules/acpi.ko" at 0xc07cf1c0.
Pentium Pro MTRR support enabled
md0: Malloc disk
pcbios: BIOS version 2.10
Using $PIR table, 10 entries at 0xc00fbc20
ACPI: RSDP @ 0x0xfde50/0x0014 (v 0 DELL )
```

ACPI: RSDT @ 0x0xfde64/0x0028 (v 1 DELL CPI R 0x27D40115 ASL 0x00000061)
ACPI: FACP @ 0x0xfde90/0x0074 (v 1 DELL CPI R 0x27D40115 ASL 0x00000061)
ACPI: DSDT @ 0x0xffe4000/0x2B4C (v 1 INT430 SYSFexxx 0x00001001 MSFT 0x0100000E)
ACPI: FACS @ 0x0x13fff800/0x0040
npx0: <math processor> on motherboard
npx0: INT 16 interface
Using MMX optimized bcopy/copyin/copyout
acpi0: <DELL CPI R > on motherboard
Warning: ACPI is disabling APM's device. You can't run both
acpi_timer0: <24-bit timer at 3.579545MHz> port 0x808-0x80b on acpi0
cpu0: <ACPI CPU (2 Cx states)> on acpi0
acpi_tz0: <Thermal Zone> on acpi0
acpi_acad0: <AC Adapter> on acpi0
acpi_cmbat0: <Control Method Battery> on acpi0
acpi_cmbat1: <Control Method Battery> on acpi0
acpi_lid0: <Control Method Lid Switch> on acpi0
acpi_button0: <Power Button> on acpi0
acpi_button1: <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 Generic PS/2 mouse, device ID 0
fdc0: <NEC 72065B or clone> port 0x3f7,0x3f2-0x3f5 irq 6 drq 2 on acpi0
fdc0: FIFO enabled, 8 bytes threshold
fd0: <1440-KB 3.5" drive> on fdc0 drive 0
sio0 port 0x3f8-0x3ff irq 4 on acpi0
sio0: type 16550A
ppc0 port 0x778-0x77b,0x378-0x37f irq 7 drq 3 on acpi0
ppc0: SMC-like chipset (ECP/EPP/PS2/NIBBLE) in COMPATIBLE mode
ppc0: FIFO with 16/16/8 bytes threshold
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
legacypci0 on motherboard
pcib0: <Host to PCI bridge> on legacypci0
pci0: <PCI bus> on pcib0
agp0: <Intel 82815 (i815 GMCH) host to PCI bridge> mem 0xe4000000-0xe7ffffff at device 0.0 on pci0
pcib1: <Intel 82801BA/BAM (ICH2) PCI-PCI (AGP) bridge> at device 1.0 on pci0
pci1: <PCI bus> on pcib1
pci1: <ATI model 4d46 graphics accelerator> at 0.0 irq 11
pcib2: <PCI to PCI bridge (vendor=8086 device=2448)> at device 30.0 on pci0
pci2: <PCI bus> on pcib2
pci2: <unknown card> (vendor=0x125d, dev=0x1998) at 3.0 irq 5
xl0: <3Com 3c556 Fast Etherlink XL> port 0xe800-0xe8ff mem 0xf8ffd800-0xf8ffd87f,0xf8ffd00-0xf8ffd7f irq 10 at device 6.0 on pci2
miiibus0: <MII bus> on xl0
ukphy0: <Generic IEEE 802.3u media interface> on miiibus0
ukphy0: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX, auto
xl0: MAC address: 00:01:03:89:85:bf
pci2: <unknown card> (vendor=0x10b7, dev=0x1007) at 6.1 irq 10
cbb0: <TI4451 PCI-CardBus Bridge> at device 15.0 on pci2
cardbus0: <CardBus bus> on cbb0
pccard0: <16-bit PCCard bus> on cbb0
pci_cfgintr: 0:30 INTC routed to irq 10
pcib2: routed slot 15 INTA to irq 10
cbb1: <TI4451 PCI-CardBus Bridge> at device 15.1 on pci2
cardbus1: <CardBus bus> on cbb1
pccard1: <16-bit PCCard bus> on cbb1
pci_cfgintr: 0:30 INTC routed to irq 10
pcib2: routed slot 15 INTA to irq 10

fwohci0: <Texas Instruments PCI4451> mem
0xf8ff8000-0xf8ffbfff,0xf8ffc800-0xf8ffcfff irq 10 at device 15.2 on pci2
fwohci0: OHCI version 1.0 (ROM=1)
fwohci0: No. of Isochronous channel is 4.
fwohci0: EUI64 39:4f:c0:00:1a:82:d4:01
fwohci0: Phy 1394a available S400, 1 ports.
fwohci0: Link S400, max_rec 2048 bytes.
firewire0: <IEEE1394(FireWire) bus> on fwohci0
fwe0: <Ethernet over FireWire> on firewire0
fwe0: MAC address: 3a:4f:c0:82:d4:01
sbp0: <SBP-2/SCSI over FireWire> on firewire0
fwohci0: Initiate bus reset
fwohci0: node_id=0xc000ffc0, gen=1, CYCLEMASTER mode
firewire0: 1 nodes, maxhop <= 0, cable IRM = 0 (me)
firewire0: bus manager 0 (me)
isab0: <PCI to ISA bridge (vendor=8086 device=244c)> at device 31.0 on pci0
isa0: <ISA bus> on isab0
atapci0: <Intel ICH2 UDMA100 controller> port
0xbfa0-0xbfaf,0x376,0x170-0x177,0x3f6,0x1f0-0x1f7 at device 31.1 on pci0
ata0: <ATA channel 0> on atapci0
dc0: <Xircom X3201 10/100BaseTX> port 0xe000-0xe07f mem
0xf4002000-0xf40027ff,0xf4002800-0xf4002fff irq 10 at device 0.0 on cardbus0
miiibus1: <MII bus> on dc0
ukphy1: <Generic IEEE 802.3u media interface> on miiibus1
ukphy1: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX, auto
dc0: MAC address: 00:10:a4:e4:76:5f
ad0: 9590MB <IBM DJSA-210 JS2OAB8A> at ata0-master UDMA66
acd0: CDROM <TEAC CD-ROM CD-224E/3.7C> at ata0-slave UDMA33
ata1: <ATA channel 1> on atapci0
uhci0: <Intel 82801BA/BAM (ICH2) USB controller USB-A> port
0xdce0-0xdcff irq 10 at device 31.2 on pci0
usb0: <Intel 82801BA/BAM (ICH2) 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> on usb0
uhub0: 2 ports with 2 removable, self powered
pmtimer0 on isa0
fdc1: cannot reserve I/O port range
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>
sio2: can't drain, serial port might not exist, disabling
ppc1: cannot reserve I/O port range
intr 10 at 40001/40000 hz, livelocked limit engaged!
aue0: <3Com 3C460B 10/100 Ethernet Adapter, class 255/0, rev 1.10/1.01,
addr 2> on uhub0
miiibus2: <MII bus> on aue0
acphy0: <AC_UNKNOWN 10/100 media interface> on miiibus2
acphy0: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX, auto
aue0: MAC address: 00:04:76:ab:2e:83
intr 10 at 1/20000 hz, livelock removed
Mounting root from ufs:/dev/ad0s1a
cd0 at ata0 bus 0 target 1 lun 0
cd0: <TEAC CD-224E 3.7C> Removable CD-ROM SCSI-0 device
cd0: 33.000MB/s transfers
cd0: Attempt to query device size failed: NOT READY, Medium not present
pflog0: promiscuous mode enabled

History

#1 - 08/17/2008 03:26 AM - sepherosa

Please test following patch:

<http://leaf.dragonflybsd.org/~sephe/aue.diff>

Best Regards,
sephe

#2 - 08/17/2008 06:24 PM - t-df

I tried this patch and DF no longer crashes, but if I http in either direction through the aue0 nic, DF will lock up to the point that the console no longer responds, nor do any of the network interfaces.

Tim

#3 - 08/20/2008 11:30 AM - sepherosa

Sorry for being late on this. Please test following patch:
<http://leaf.dragonflybsd.org/~sephe/aue.diff1>

Best Regards,
sephe

#4 - 08/21/2008 03:05 AM - t-df

Late? You've got to be kidding. I'm amazed at how fast you get these out. Anyway, sorry to report that this one also locks up the machine.

Tim
--

#5 - 08/21/2008 11:51 AM - sepherosa

Please test following patch:
<http://leaf.dragonflybsd.org/~sephe/aue.diff2>

If it still deadlocked your system, I think you should be able to break into ddb; if possible give me a coredump :). Thanks.

Best Regards,
sephe

#6 - 08/21/2008 01:58 PM - t-df

No coredump needed; it's working now! Thanks :-)

Tim

#7 - 01/20/2009 07:56 AM - sepherosa

Committed:
b464d72481