

# Re: cPCI Hotplug support

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2006-04/msg00376.html>

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- *From:* Park Foreman <[livefreebsd@xxxxxxx](mailto:livefreebsd@xxxxxxx)>
  - *Date:* Wed, 19 Apr 2006 18:14:00 -0400
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System: Nokia IP330 using AMD K6 processor  
Card: Zynx ZX412 dual 10/100 card and DEC/Intel 21143 chipset

ifconfig:

```
dc0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500
options=8<VLAN_MTU>
inet 172.21.1.1 netmask 0xffff0000 broadcast 172.21.255.255
inet6 fe80::2c0:95ff:fee5:7d8c%dc0 prefixlen 64 scopeid 0x4
ether 00:c0:95:e5:12:ab
media: Ethernet autoselect (none)
status: no carrier
dc1: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500
options=8<VLAN_MTU>
inet 172.21.2.1 netmask 0xffff0000 broadcast 172.21.255.255
inet6 fe80::2c0:95ff:fee5:7d8d%dc1 prefixlen 64 scopeid 0x5
ether 00:c0:95:e5:23:cd
media: Ethernet autoselect (none)
status: no carrier
```

dmesg:

```
pci1: <PCI bus> on pcib1
dc0: <Intel 21143 10/100BaseTX> port 0xe000-0xe07f mem 0xd8000000-0xd80003ff irq 10 at device 5.0
on pci1
miibus3: <MII bus> on dc0
dcpHY0: <Intel 21143 NWay media interface> on miibus3
dcpHY0: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX, auto
dc0: Ethernet address: 00:c0:95:e5:7d:8c
dc0: [GIANT-LOCKED]
dc1: <Intel 21143 10/100BaseTX> port 0xe400-0xe47f mem 0xd8001000-0xd80013ff irq 12 at device 6.0
on pci1
miibus4: <MII bus> on dc1
dcpHY1: <Intel 21143 NWay media interface> on miibus4
dcpHY1: 10baseT, 10baseT-FDX, 100baseTX, 100baseTX-FDX, auto
dc1: Ethernet address: 00:c0:95:e5:7d:8d
dc1: [GIANT-LOCKED]
```

pciconf -vl:

```
pcib1@pci0:16:0: class=0x060400 card=0x000000dc chip=0x00241011 rev=0x03 hdr=0x01
```

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```
vendor = 'Digital Equipment Corporation'  
device = '21151/2 PCI to PCI Bridge'  
class = bridge  
subclass = PCI-PCI  
dc0@pci1:5:0: class=0x020000 card=0x0019110d chip=0x00191011 rev=0x41 hdr=0x00  
vendor = 'Digital Equipment Corporation'  
device = 'DC21142/3 PCI/CardBus 10/100 Mbit Ethernet Ctlr'  
class = network  
subclass = ethernet  
dc1@pci1:6:0: class=0x020000 card=0x0019110d chip=0x00191011 rev=0x41 hdr=0x00  
vendor = 'Digital Equipment Corporation'  
device = 'DC21142/3 PCI/CardBus 10/100 Mbit Ethernet Ctlr'  
class = network  
subclass = ethernet
```

I have been advised to look at <http://cvstrac.pfsense.com/chngview?cn=4643>  
But, I am not using pfSense. Just 6.0 release.

I have also looked at [http://www.znyx.com/support/drivers/ZX412\\_drivers.htm](http://www.znyx.com/support/drivers/ZX412_drivers.htm)

But these drivers don't work for me. If they can be made to work, could they be built into the next release or adapt the existing drivers?

Typically, I would say why bother with such old equipment but there are a lot of companies trying to breath new life into these old firewalls.

Park

On Apr 19, 2006, at 10:03 AM, Andre Guibert de Bruet wrote:

On Apr 16, 2006, at 1:12 PM, livefreebsd@xxxxxxx wrote:

Does 6.0 not support hot-swap Compact PCI?

With an ethernet card in this slot, O/S sees dc0 and dc1 but power to the actual transceivers does not occur.

i.e. FreeBSD sees the chipset and let me ifconfig anything. But, activity lights never works. This works with Linux.

Can we port the code for this from Linux?

This report is void of any relevant information and is therefore useless for a variety of reasons:

- What is the make of the ethernet card?
- Could we get the appropriate pciconf -v1 output?

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- What does the dmesg output look like for the card?
- What model laptop is this being used in?
- What CPU? AMD64 or I386?

Why should we port a driver for a NIC that appears to be almost working? It is way more efficient to make the relevant changes to get the card working in the present driver. This of course, requires that we know what devices you are trying to make interoperate...

Cheers,  
Andy

/\* Andre Guibert de Bruet \* 6f43 6564 7020 656f 2e74 4220 7469 6a20 \*/  
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