

Re: defect onboard broadcom causing boot hang

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2004-02/0017.html>

From: Jonathan Chappelow (jcchapp_at_emory.edu)

Date: 02/03/04

Date: Tue, 03 Feb 2004 10:39:06 -0500
To: Bjorn Eikeland <bjorn@eikeland.info>

Bjorn Eikeland wrote:

> *Thanks for your reply Jon!*
>
> *I've checked the driver cd and it had the drivers under Drivers\LAN\4401\
> and I seem to remeber thats what windows once called it. The unidentified
> chip id isnt a supprise, the card worked, and suddenly turned into a
> unknown device in windows, so it must have changed somehow.*
>
> *So if the chip stil works then adding/changing the device id sounds like
> a plan. Having casted a underskilled eye at the sources I'm not sure what
> file to edit, but is this it?:*
>
> */usr/src/sys/dev/bfe/if_bfereg.h*
> *ln 396: #define BCOM_DEVICEID_BCM4401 0x4401*

No problem, I had to take a look at this previously too.

I think you could change that line all together, or you could possible
add a
new device by editing both if_bfe.c and if_bfereg.h. Maybe something like:

```
--- /usr/src/sys/dev/bfe/if_bfe.c Fri Nov 14 14:00:30 2003
+++ ./if_bfe.c Tue Feb 3 10:30:42 2004
@@ -82,6 +82,8 @@
static struct bfe_type bfe_devs[] = {
    { BCOM_VENDORID, BCOM_DEVICEID_BCM4401,
      "Broadcom BCM4401 Fast Ethernet" },
+ { BCOM_VENDORID, BCOM_DEVICEID_BCM4401_1,
+   "Broadcom BCM4401 Fast Ethernet - A7V8X integrated" },
    { 0, 0, NULL }
};

--- /usr/src/sys/dev/bfe/if_bfereg.h Tue Sep 9 14:17:22 2003
+++ ./if_bfereg.h Tue Feb 3 10:28:09 2004
@@ -394,6 +394,7 @@
```

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```
#define BCOM_VENDORID 0x14E4
#define BCOM_DEVICEID_BCM4401 0x4401
+#define BCOM_DEVICEID_BCM4401_1 0x8000

#define PCI_SETBIT(dev, reg, x, s) \
    pci_write_config(dev, reg, (pci_read_config(dev, reg, s) | (x)), s)
```

I've never done this before, but It would be fun to see if this is all you need to do. Best of luck.

Jon

>
>> *Bjorn Eikeland wrote:*
>>
>>> *I've just changed to using freebsd on my desktop pc, my Asus A7V8X*
>>> *motherboard has a onboard Broadcom chip – this just stopped working*
>>> *under*
>>> *windows and turned into a unknown device. Asus or vendor's support*
>>> *never*
>>> *replied so I just picked up a new fxp card.*
>>
>>
>> *Depending on the options, this board either has BCM4401 or BCM5702.*
>> *Note "(optional)" written on the box next to Gigabit LAN. My old*
>> *Asus P4PE had the BCM4401 and I had a lot of trouble with buggy*
>> *drivers (*bfe*). The gigabit chip (BCM5702) uses bge. Try adding*
>> *both to the kernel with mii to see if either works. Also, their*
>> *might be a more detailed part number on a sticker somewhere.*
>>
>>> *pciconf shows this device to be a:*
>>> *none0@pci0:9:0: class=0x008000 card=0x80008000 chip=0x800014e4*
>>> *rev=0x01 hdr=0x00*
>>> *vendor = 'Broadcom Corporation'*
>>> *class = old*
>>
>>
>> *According to pciids.sourceforge.net and www.pcidatabase.com,*
>> *chip=0x800014e4 is unidentified. vendor 14e4 is Broadcom, but device*
>> *id 8000 is a mystery. Although, this is close:*
>> *<http://pciids.sourceforge.net/iii/?i=14e44401>. Good luck with that.*
>> *You may just need to edit the code and add a device id?*
>>
>> *Jon*
>>
>
>
>
>
> _____
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