

Re: Unable to get RealTek 8139C+ to work with re(4) under FreeBSD 6.1

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Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/hackers/2006-08/msg00226.html>

- *From:* Pyun YongHyeon <pyunyh@xxxxxxxxxx>
 - *Date:* Thu, 17 Aug 2006 11:28:15 +0900
-

On Mon, Aug 14, 2006 at 08:03:35PM +0800, Dinesh Nair wrote:

On 08/14/06 19:09 Pyun YongHyeon said the following:

really sucks and need much more CPU power to saturate the link.
So I don't think it's good idea to make rl(4) serve 8139C+.

perhaps, but re(4) doesn't work at the moment on this chipset, and i'd rather have something which works, albeit a little poorly, than something which doesn't.

Yes. What ``ident /boot/kernel/if_re.ko`` shows?

```
$FreeBSD: src/sys/dev/re/if_re.c,v 1.46.2.19 2006/08/07 02:38:07 yongari  
Exp $
```

and the latest if_rlreg.c which i pulled down shows,

```
$FreeBSD: src/sys/pci/if_rlreg.h,v 1.51.2.7 2006/08/01 17:36:50 wpaul Exp $
```

i'm not using the loadable modules though, and am building the re(4) device into the kernel directly.

the symptoms remain the same, i.e. IP traffic doesn't flow at all, though 'arp -an' does show the ethernet address of the other box attempting to ping this.

the OP at

<http://lists.freebsd.org/pipermail/freebsd-stable/2006-August/027356.html>

mentioned that it was working fine before breakage was introduced relatively recently (~ 2 weeks ago), and thus something's changed in the interim which is causing this to happen.

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Here is guess work(I don't have 8139C+ based NICs).
Would you give it a try?

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Regards,

Pyun YongHyeon

--- if_re.c.orig Thu Aug 3 09:15:19 2006

+++ if_re.c Thu Aug 17 11:25:31 2006

@@ -541,6 +541,10 @@

```
return (0);
```

```
}
```

```
rval = CSR_READ_2(sc, re8139_reg);
```

```
+ if (sc->rl_type == RL_8139CPLUS && re8139_reg == RL_BMCR) {
```

```
+ /* 8139C+ uses different bit layout */
```

```
+ rval &= ~(BMCR_LOOP | BMCR_ISO);
```

```
+ }
```

```
return (rval);
```

```
}
```

@@ -567,6 +571,10 @@

```
switch (reg) {
```

```
case MII_BMCR:
```

```
re8139_reg = RL_BMCR;
```

```
+ if (sc->rl_type == RL_8139CPLUS) {
```

```
+ /* 8139C+ uses different bit layout */
```

```
+ data &= ~(BMCR_LOOP | BMCR_ISO);
```

```
+ }
```

```
break;
```

```
case MII_BMSR:
```

```
re8139_reg = RL_BMSR;
```

freebsd-hackers@xxxxxxxxxxxxx mailing list

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