

Re: chelsio driver and Myricom driver

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2007-07/msg00847.html>

- *From:* Mike Tancsa <mike@xxxxxxxxxx>
 - *Date:* Wed, 18 Jul 2007 00:34:07 -0400
-

At 12:27 AM 7/18/2007, Kip Macy wrote:

You need to use the module in order to update the firmware. The firmware will be automatically be updated when you up an interface on the card.

Thanks, I just figured that out a few min ago by accident and the card looks happy now!

```
[leopard1]% ifconfig
cxgb0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> metric 0 mtu 9000
options=1bb<RXCSUM, TXCSUM, VLAN_MTU, VLAN_HWTAGGING, JUMBO_MTU, VLAN_HWCSUM, TSO4>
ether 00:07:43:04:01:2c
inet 192.168.10.1 netmask 0xfffff00 broadcast 192.168.10.255
media: Ethernet 10Gbase-CX4 <full-duplex> (autoselect <full-duplex>)
status: active
```

```
[leopard1]% sysctl -a | grep cxg
hw.cxgb.singleq: 1
hw.cxgb.ofld_disable: 0
hw.cxgb.msi_allowed: 2
dev.cxgbc.0.%desc: Chelsio T310 RNIC, 1 port
dev.cxgbc.0.%driver: cxgbc
dev.cxgbc.0.%location: slot=0 function=0
dev.cxgbc.0.%pnpinfo: vendor=0x1425 device=0x0030 subvendor=0x1425 subdevice=0x0001
class=0x020000
dev.cxgbc.0.%parent: pci10
dev.cxgbc.0.firmware_version: 4.5.0
dev.cxgbc.0.intr_coal: 5000
dev.cxgbc.0.enable_debug: 0
dev.cxgbc.0.collapse_free: 0
dev.cxgbc.0.mb_free_vec_free: 0
dev.cxgbc.0.collapse_mbufs: 0
dev.cxgbc.0.txq_overrun: 0
dev.cxgbc.0.bogus_imm: 1
dev.cxgb.0.%desc: Port 0 10GBASE-CX4
dev.cxgb.0.%driver: cxgb
dev.cxgb.0.%parent: cxgbc0
[leopard1]%
```

Re: chelsio driver and Myricom driver

-Kip

On 7/17/07, Mike Tancsa <mike@xxxxxxxxxx> wrote:

Hi,

I am trying to run a recent current with the Chelsio 10GigE card below and it tries to load but has the following complaint.

```
cxgbc0: <Chelsio T310 RNIC, 1 port> mem
0xe0201000-0xe0201fff,0xe0800000-0xe0ffffff,0xe0200000-0xe0200fff
irq
16 at device 0.0 on pci10
cxgbc0: found wrong FW version (4.0), driver needs version 4.5
cxgbc0: firmware needs to be updated to version 4.5.0
cxgbc0: found wrong TP version (0.0), driver needs version 1.1
cxgbc0: SRAM needs to be updated to version b-1.1.0
cxgb0: <Port 0 10GBASE-CX4> on cxgbc0
cxgb0: Ethernet address: 00:07:43:04:01:2c
```

Where do I get the firmware from ? The website only has 4.3 ? Also, how do I update the SRAM. Sorry if these are obvious questions, but I am new to CURRENT with such drivers. I have the driver compiled into the kernel

With the Myricom, it seems to work, but it doesnt detect the cx4 media type for some reason.

```
# ifconfig mxge0
mxge0:
flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST>
metric 0 mtu 9000
```

```
options=1bb<RXCSUM,TXCSUM,VLAN_MTU,VLAN_HWTAGGING,JUMBO_MTU,VLAN_HW
ether 00:60:dd:47:c6:c4
inet 192.168.10.3 netmask 0xfffff00 broadcast 192.168.10.255
media: <unknown type> (autoselect <full-duplex>)
status: active
```

The port is up and I can ping across it so it is working.

```
TenGigabitEthernet2/3 is up, line protocol is up (connected)
Hardware is C6k 10000Mb 802.3, address is 0018.bab0.2036 (bia
0018.bab0.2036)
Description: leopard3 mxge0
MTU 1500 bytes, BW 10000000 Kbit, DLY 10 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
```

Re: chelsio driver and Myricom driver

Full-duplex, 10Gb/s
input flow-control is off, output flow-control is on
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output 00:00:55, output hang never
Last clearing of "show interface" counters never
Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
8 packets input, 588 bytes, 0 no buffer
Received 5 broadcasts, 0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 input packets with dribble condition detected
403 packets output, 30468 bytes, 0 underruns
0 output errors, 0 collisions, 1 interface resets
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out

---Mike

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