

DragonFlyBSD - Bug #30

NIC vlan(4) capabilities

12/30/2005 08:15 PM - dragonfly

Status: Closed	Start date:
Priority: Low	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 0.00 hour
Target version:	
Description	
Hello,	
This updates the drivers equipped to do hardware VLAN support to announce the fact. This is already done by em(4) and re(4) and allows control of the features via ifconfig. Capabilities were checked against FreeBSD and the respective man pages.	
Is it worth setting IFCAP_VLAN_MTU in dc(4), fxp(4), sis(4), ste(4) and tx(4) as they are documented as supporting long frames for vlan natively?	
Regards	
Gary	

History

#1 - 03/25/2007 04:46 PM - dillon

```
:Hello,
:
:This updates the drivers equipped to do hardware VLAN support to
:announce the fact. This is already done by em(4) and re(4) and allows
:control of the features via ifconfig. Capabilities were checked against
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:Is it worth setting IFCAP_VLAN_MTU in dc(4), fxp(4), sis(4), ste(4) and
:tx(4) as they are documented as supporting long frames for vlan natively?
:
:Regards
:
:Gary
```

I don't know how this got lost, I noticed it while searching for the recent vlan thread. Gary posted it in December.

Sephe, are these patches still applicable? It looks like they do.

(this is unrelated to the recent vlan bug thread)

-Matt
Matthew Dillon
<dillon@backplane.com>

```
:-----000909040708090002030001
:Content-Type: text/plain;
: name="netif_vlan.diff"
:Content-Transfer-Encoding: 7bit
:Content-Disposition: inline;
: filename="netif_vlan.diff"
:
:Index: bge/if_bge.c
:=====
:RCS file: /home/dcv/sr/sys/dev/netif/bge/if_bge.c,v
:retrieving revision 1.51
:diff -u -r1.51 if_bge.c
:--- bge/if_bge.c 29 Nov 2005 19:56:50 -0000 1.51
:+++ bge/if_bge.c 30 Dec 2005 19:29:21 -0000
```

```

@@@ -1661,7 +1661,8 @@@
: ifq_set_maxlen(&ifp->if_snd, BGE_TX_RING_CNT - 1);
: ifq_set_ready(&ifp->if_snd);
: ifp->if_hwassist = BGE_CSUM_FEATURES;
:- ifp->if_capabilities = IFCAP_HWCSUM;
:+ ifp->if_capabilities = IFCAP_HWCSUM | IFCAP_VLAN_HWTAGGING |
:+   IFCAP_VLAN_MTU;
: ifp->if_capenable = ifp->if_capabilities;
:
: /*
:Index: gx/if_gx.c
:=====
:RCS file: /home/dcvsrc/src/sys/dev/netif/gx/if_gx.c,v
:retrieving revision 1.22
:diff -u -r1.22 if_gx.c
:--- gx/if_gx.c 28 Nov 2005 17:13:42 -0000 1.22
:+++ gx/if_gx.c 30 Dec 2005 19:50:46 -0000
:@@@ -335,11 +335,12 @@@
: ifp->if_init = gx_init;
: ifp->if_mtu = ETHERMTU;
: ifq_set_maxlen(&ifp->if_snd, GX_TX_RING_CNT - 1);
:+ ifp->if_capabilities = IFCAP_VLAN_HWTAGGING;
: ifq_set_ready(&ifp->if_snd);
:
: /* see if we can enable hardware checksumming */
: if (gx->gx_vflags & GXF_CSUM) {
:- ifp->if_capabilities = IFCAP_HWCSUM;
:+ ifp->if_capabilities |= IFCAP_HWCSUM;
: ifp->if_capenable = ifp->if_capabilities;
: }
:
:Index: nge/if_nge.c
:=====
:RCS file: /home/dcvsrc/src/sys/dev/netif/ngel/if_nge.c,v
:retrieving revision 1.35
:diff -u -r1.35 if_nge.c
:--- nge/if_nge.c 29 Nov 2005 19:56:53 -0000 1.35
:+++ nge/if_nge.c 30 Dec 2005 19:19:08 -0000
:@@@ -849,7 +849,7 @@@
: ifq_set_maxlen(&ifp->if_snd, NGE_TX_LIST_CNT - 1);
: ifq_set_ready(&ifp->if_snd);
: ifp->if_hwassist = NGE_CSUM_FEATURES;
:- ifp->if_capabilities = IFCAP_HWCSUM;
:+ ifp->if_capabilities = IFCAP_HWCSUM | IFCAP_VLAN_HWTAGGING;
: ifp->if_capenable = ifp->if_capabilities;
:
: /*
:Index: ti/if_ti.c
:=====
:RCS file: /home/dcvsrc/src/sys/dev/netif/ti/if_ti.c,v
:retrieving revision 1.39
:diff -u -r1.39 if_ti.c
:--- ti/if_ti.c 29 Nov 2005 19:56:56 -0000 1.39
:+++ ti/if_ti.c 30 Dec 2005 19:33:36 -0000
:@@@ -1409,7 +1409,8 @@@
: sc = device_get_softc(dev);
: ifp = &sc->arpcom.ac_if;
: if_initname(ifp, device_get_name(dev), device_get_unit(dev));
:- ifp->if_capabilities = IFCAP_HWCSUM;
:+ ifp->if_capabilities = IFCAP_HWCSUM |
:+   IFCAP_VLAN_HWTAGGING | IFCAP_VLAN_MTU;
: ifp->if_capenable = ifp->if_capabilities;
:
: pci_enable_busmaster(dev);
:Index: txp/if_txp.c
:=====
:RCS file: /home/dcvsrc/src/sys/dev/netif/txp/if_txp.c,v
:retrieving revision 1.34
:diff -u -r1.34 if_txp.c
:--- txp/if_txp.c 11 Dec 2005 01:54:09 -0000 1.34
:+++ txp/if_txp.c 30 Dec 2005 19:35:16 -0000
:@@@ -1723,6 +1723,7 @@@
: if (rsp->rsp_par2 & rsp->rsp_par3 & OFFLOAD_VLAN) {
: sc->sc_tx_capability |= OFFLOAD_VLAN;
: sc->sc_rx_capability |= OFFLOAD_VLAN;

```

```
:+ ifp->if_capabilities |= IFCAP_VLAN_HWTAGGING;
: }
:
: #if 0
:
:-----000909040708090002030001--
:
```

#2 - 03/26/2007 06:37 AM - sepherosa

I thought you had committed it :P

Yeah, of course they do. I will commit them once I got home.

Best Regards,
sephe

Files

netif_vlan.diff	2.93 KB	12/31/2005	dragonfly
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