
Subject: Re: Re: [PATCHSET] 2.6.20-lxc8

Posted by [Benjamin Thery](#) on Wed, 28 Mar 2007 12:30:26 GMT

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Eric W. Biederman wrote:

> Kirill Korotaev <dev@sw.ru> writes:

>

>> Benjamin,

>>

>> checksumming can be optimized out as well.

>> We had an experimental patch for OpenVZ venet device, which adds

>> NETIF_F_LLTX | NETIF_F_HW_CSUM | NETIF_F_SG | NETIF_F_HIGHDMA

>> features to venet device and avoids additional checksumming where possible

>> (moving RX/TX checksum calculation to hardware).

>>

>> So I guess this is doable in future as well.

>

> I think I have the checksum bits settable in software with etun already. If not

> it shouldn't be too hard to add.

I tried to activate the checksum offload on etun to see if it improves things, but, unfortunately once activated all my traffic was lost or blocked. I didn't spend a lot of time on the issue. May be I'll give it another try.

BTW, there is a small bug in etun_set_tx_csum. We can't disable the checksum offloading once it has been set. I think it should look like this: (sorry I haven't a patch ready)

```
static int etun_set_tx_csum(struct net_device *dev, u32 data)
{
    if (data)
        dev->features |= NETIF_F_NO_CSUM;
    else
        dev->features &= ~NETIF_F_NO_CSUM;
    return 0;
}
```

>

> I don't default to that because depending on your configuration it might not

> be safe. In particular I think when you are using ethernet bridging we

> need to do the packet checksum immediately off the wire.

>

> Eric

>

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Containers mailing list

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