

## RE: RFC: TSO patch for current

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2006-10/msg00269.html>

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- *From:* <[sivakumar.subramani@xxxxxxxxxx](mailto:sivakumar.subramani@xxxxxxxxxx)>
  - *Date:* Mon, 30 Oct 2006 13:13:12 +0530
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Hi Jack,

Do you the patch for 6.0 FreeBSD kernel? If so can you please send it me. I would like to test TSO on my system.

Thanks,  
~Siva

-----Original Message-----

From: owner-freebsd-net@xxxxxxxxxxxxx  
[<mailto:owner-freebsd-net@xxxxxxxxxxxxx>] On Behalf Of Jack Vogel  
Sent: Wednesday, September 06, 2006 3:53 AM  
To: Andre Oppermann  
Cc: freebsd-net; freebsd-current  
Subject: Re: RFC: TSO patch for current

On 9/5/06, Andre Oppermann <[andre@xxxxxxxxxxxxx](mailto:andre@xxxxxxxxxxxxx)> wrote:

Jack Vogel wrote:

On 9/5/06, Andre Oppermann <[andre@xxxxxxxxxxxxx](mailto:andre@xxxxxxxxxxxxx)> wrote:

Prafulla Deuskar wrote:

Your patch looks good and is the way to go.

So after Jack confirms that your patch works  
with the em driver  
would you commit to to -current?

Absolutely. :-)

The driver related changes can follow..

Later we also need to fix ifconfig so that  
user can

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enable/disable

TSO on the interface.

I'll do that together with the TSO code.

OK, I've built and done some touch testing of this. I like it, the driver has some counters of the number of TSO bursts it does, and I think I see more per netperf test with your patch than mine.

Hard to do real performance testing with all that WITNESS stuff in, but I will be making a 6.1 version of your patch to test with since I have my driver running on that anyway.

You can disable WITNESS and INVARIANTS pretty easily in -current and get the full performance with it.

Last time I tried that I think the kernel wouldnt build, but that was like 6 months ago, so I just kicked off a build with this stuff off, and we'll see how it looks :)

If you do the ifconfig changes there will need to be a small amount of code added to em\_ioctl() but it should be trivial.

You want me to reissue a driver patch with changes for your code?

Yes, please do so. I've got a dual-em card which I can test with myself.

OK, attached new patch, this one even has the ioctl change so when you get the ifconfig change in it will be ready.

Cheers,

Jack

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