Subject: Re: L2 network namespace benchmarking (resend with Service Demand) Posted by Benjamin Thery on Fri, 06 Apr 2007 11:19:36 GMT

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## Eric W. Biederman wrote:

> Daniel Lezcano <dlezcano@fr.ibm.com> writes:

> >> Hi,

>> as suggested Rick, I added the Service Demand results to the matrix.

>

>>

> A couple of random thoughts in trying to understand the numbers you are > seeing.

>

> - Checksum offloading?

>

- You have noted that with the bridge netfilter support disabled you
- are still seeing additional checksum overhead. Just like you are
- seeing in the routing case. >

>

- Is it possible the problem is simply that etun doesn't support
- checksum offloading, while your normal test hardware does?

Looks like you are 100% correct.

I feel a bit stupid I didn't think about this "small" difference between real NIC and etun.

If I turn off checksum offloading on my physical NIC, the checksum "overhead" (load) measured by oprofile is about the same in both case: when running netperf through a real NIC or through an etun tunnel first.

## Benjamin

> - Tagged VLANs?

>

- Currently you have tested bridging and routing to get the packets to
- a network namespace. Could you test tagged vlans?

>

- I'm just curious if we have anything in the network stack today that
- will multiplex a NIC without measurable overhead. >
- > - Without NETNS?

- We should probably see if we can setup the same configuration we are
- testing without network namespaces (just multiple interfaces on the
- same machine) and see if we can still measure the same overhead.
- Just to confirm the overhead is not a network namespace related
- thing.

> I know we can configure the same case with bridging and I am fairly > > confident that we will see the same overhead without network namespaces. > > Of the top of my head I am insufficiently clever to think how we could configure the routing case without network namespaces. although we might be able to force it and if so it would be > interesting to measure. > > I will work to get the etun setup races fixed and to fix whatever > obvious feature deficiencies it has (like no configurable MTU support) > and see if I can get that pushed upstream. That should make it easier > for other people to reproduce what we are seeing. > > Eric > Containers mailing list > Containers@lists.linux-foundation.org > https://lists.linux-foundation.org/mailman/listinfo/containers > Benjamin Thery - BULL/DT/Open Software R&D

http://www.bull.com

On the land of the Park

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