
Subject: Re: Network virtualization/isolation
Posted by [ebiederm](#) on Sat, 25 Nov 2006 23:16:06 GMT
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"Leonid Grossman" <Leonid.Grossman@neterion.com> writes:

> I did not mean kernel bypass, just L2 hw channels that for
> all practical purposes act as separate NICs -
> different MAC addresses, no blocking, independent reset, etc.

Yes. Nearly all of what you need for safe kernel bypass.

>> In the worst case I might need someone to go as far as the
>> Grand Unified Lookup to remove all of the overheads. Except
>> for distributing the work load more evenly across the machine
>> with separate interrupts and the like I see no need for
>> separate hardware channels to make things go fast for my needs.

>>
>> Despite the title of this thread there is no virtualization
>> or emulation of the hardware involved. Just enhancements to
>> the existing hardware abstractions.

>
> Right, I was just trying to say that IOV support (likely, from multiple
> vendors since
> virtualization is expected to be widely used) would provide an option to
> export multiple
> independent L2 interfaces from a single NIC - even if only a subset of
> IOV functionality would be used in this case.

Agreed, and I think I understood that. My basic point was that it
doesn't look to me like I need the hardware support, just that I can
use it when it is there.

The core advantage I see of the multiple queues, is in being able to
split the processing of network traffic and interrupts among multiple
cores.

Eric

Containers mailing list
Containers@lists.osdl.org
<https://lists.osdl.org/mailman/listinfo/containers>
