

Re: 2.6.19 and up to 2.6.20-rc2 Ethernet problems x86_64

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-01/msg00696.html>

- *From:* Sid Boyce <g3vbw@xxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 03 Jan 2007 16:53:58 +0000
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Jarek Poplawski wrote:

On Tue, Jan 02, 2007 at 03:32:01PM +0000, Sid Boyce wrote:

Jarek Poplawski wrote:

...

If you could send full ifconfig, route -n (or ip route if you use additional tables) and tcpdump (all packets)

>from both boxes while pinging each other and a few words

how it is connected (other cards, other active boxes in the network?) maybe something more could be found.

...

Everything is fine with a eepr100 on the 64x2 box that gave the same problem with a nVidia Corporation MCP51 Ethernet Controller (rev a1) using the forcedeth module. On the x86_64 laptop the problem is with a Broadcom NetXtreme BCM5788 using the tg3 module. Switching back to a 2.6.18.2 kernel, there is no problem.

With all configurations of cards on both, route -n is the same on all kernels and instantly reports back. With >=2.6.19 on the laptop, netstat -r takes a very long time before returning the information ~30 seconds, instantly on 2.6.18.2.

This could be a problem with DNS. Could you do all tests (including pinging) with -n option?

I've read your other message on netdev and see you have firewall working and addresses from various networks in logs. I think it would be much easier to exclude possible network config errors and try to isolate pinging problems by connecting (with switch or even crossed cable if possible) only 2

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boxes with firewalls and other net devices disabled
and try to repeat this pinging with tcpdumps.

Jarek P.

It seems >=2.6.19 and the SuSEfirewall are incompatible.

Turning off the firewall on the laptop cured the problem using 2.6.20-rc2 and 2.6.20-rc3. I thought it was off. On the 64x2 box, the firewall is turned off, so I shall have to reconfigure the network to use the Gigabit ethernet instead of the eeepro100 in case I turned it off after seeing the bug on that box, but didn't stop the firewall.

There is still the problem where the ethernet doesn't get configured with acpi=off which I shall post to the acpi devel list, but this is not a showstopper for me. ifconfig eth0 192.168.10.5 returns SIOCSIFFLAGS: Function not implemented.

Thanks and Regards

Sid.

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Sid Boyce ... Hamradio License G3VBV, Licensed Private Pilot
Emeritus IBM/Amdahl Mainframes and Sun/Fujitsu Servers Tech Support Specialist, Cricket Coach
Microsoft Windows Free Zone – Linux used for all Computing Tasks

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