
Subject: Jumbo Frames Support

Posted by [digidax](#) on Fri, 19 Dec 2008 07:53:09 GMT

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Hello,

where can I get informations about the possibility of my system to use jumbo frames (MTU=9000) with my NIC chipset RTL8169SC ? All other devices of the SAN (Switch, Storagecluster) are still set on MTU=9000.

I'm still using kernel 2.6.18-53.1.6.el5.028stab053.6 on a x86_64.

best regards

Frank

Subject: Re: Jumbo Frames Support

Posted by [piavlo](#) on Wed, 24 Dec 2008 07:31:30 GMT

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Why don't you just try

ifconfig eth? mtu 9000

on the SAN attached interface and tcpdump to see the packet sizes it recieves.

BTW which SAN are you using?

Subject: Re: Jumbo Frames Support

Posted by [digidax](#) on Thu, 25 Dec 2008 21:11:46 GMT

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Hello,

ifconfig eth2 mtu 9000 prompts me an error:

SIOCSIFMTU: Invalid argument

The same NIC's are running with MTU 9000 at my SAN clusters. I'm using a selfmade SAN: the storage nodes a based on FreeNas, running in synchronous mode on different buildings as HA cluster.

A value of MTU 7000 will be accepted by the NIC on OpenVZ, so I'm thinking, the OVZ kernel / driver combination should be the problem. Thats why I'm interesting in getting informations about the NIC driver in the actual kernel.

best regards

Frank

Subject: Re: Jumbo Frames Support
Posted by [23max](#) on Sat, 03 Jan 2009 22:29:34 GMT
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Hi,

i think max. MTU you can use is 7200. This is as defined in
<http://tomoyo.sourceforge.jp/cgi-bin/lxr/source/drivers/net/r8169.c#L70>

When you set MTU from userspace, the function `rtl8169_change_mtu` will be called and the supplied value is evaluated around line 2843ff and eventually set in hardware. The source is here
<http://tomoyo.sourceforge.jp/cgi-bin/lxr/source/drivers/net/r8169.c#L2838>

I think this explains your problem.

Regards,

Tristan-777

Subject: Re: Jumbo Frames Support
Posted by [digidax](#) on Sun, 04 Jan 2009 11:18:25 GMT
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Hi,

thanks for searching the answers of my question. Yes this is it exactly what I'm looking for. I will try it in a test environment to protect the production file system if there are some frames dropped or in other misconfiguration facts

best
Frank
