

Re: DELL PowerEdge 860 and Broadcom Gigabit Ethernet poor performance.

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Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2007-12/msg00081.html>

- *From:* Jean-Claude MICHOT <jcmichot@xxxxxxxxxxxxxx>
 - *Date:* Thu, 27 Dec 2007 02:18:50 +0100
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On Wed, Dec 26, 2007 at 02:24:44PM -0500, Sten Daniel Soersdal said:

Jean-Claude MICHOT wrote:

The server is a DELL PowerEdge 860 freshly installed with FreeBSD 7.0-BETA4 (GENERIC Kernel).

There's no problem with input throughput (upto 980 Mbits) but output throughput never go upper to 540 Mbits :(

Just for test, i have add to this server an Intel Gigabit Ethernet board (em) and there's no problem to output data up to around 980 Mbits with this addon board.

If i boot the server with Linux Ubuntu, there's no output throughput problem with Broadcom, so it seem to be FreeBSD bge driver problem.

I'm not the only one to have poor output performance with bge on DELL PowerEdge 860
<http://lists.freebsd.org/pipermail/freebsd-net/2007-June/014373.html>

I have also try various patch or setup driver default values
<http://lists.freebsd.org/pipermail/freebsd-net/2007-November/015951.html>
<http://lists.freebsd.org/pipermail/freebsd-net/2007-November/015956.html>

But all theses attempts to get better ouput performance was unsuccessful :(

Any idea are welcome.

PS: If it's usefull to debug and try to fix the problem, i can provide root access to a DELL PE860 test server with bge.

Have you tried setting the tcp send and receive windows?
The defaults are:

net.inet.tcp.sendspace: 32768
net.inet.tcp.recvspace: 65536

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Also you might want to try to lower:

net.inet.tcp.delacktime: 100

Yes, no difference. But as i said, same freebsd "config" with Intel em board instead of Broadcom bge, and there's no output throughput problem.

JC

"Those people who think they know everything are a great annoyance to those of us who do." Isaac Asimov

freebsd-performance@xxxxxxxxxxx mailing list

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