

Re: packet drop with intel gigabit / marwell gigabit

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Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2006-03/msg00040.html>

- *From:* "Jin Guojun [VFFS]" <g_jin@xxxxxxx>
 - *Date:* Wed, 22 Mar 2006 09:23:10 -0800
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Arne Woerner wrote:

--- "Jin Guojun [VFFS]" [1]<g_jin@xxxxxxx> wrote:
In you example:

Now your 1.6 GB/s reduced to 16MB/s or even worse just based on this factor.

What did we show by this <<dd if=/dev/zero ...>> test? I thought that would prove the memory bandwidth is about 8Gbit/sec (1GByte/sec; $2 * \text{<dd's bytes/sec number>/}2^{30}$).

It depends on how you use /dev/zero.
dd of=/dev/null if=/dev/zero bs=4k count=100k
tests cache speed
dd of=/dev/null if=/dev/zero bs=4m count=100
tests memory bandwidth if your cache is less than 2 MB
Now you may give me the real memory bandwidth on your system :-)
I would expect something around 500.
Notice that your memory copy speed will be one half of it.
/dev/null device really does nothing beside throwing away data.
That is, it can be counted as a cost for system call.
-Jin

References

1. mailto:g_jin@xxxxxxx

freebsd-performance@xxxxxxxxxxxxx mailing list
<http://lists.freebsd.org/mailman/listinfo/freebsd-performance>
To unsubscribe, send any mail to "freebsd-performance-unsubscribe@xxxxxxxxxxxxx"

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