

Re: How to improve gigabit jumbo frame performance

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http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.network_web/2007-04/msg00324.html

- *From:* "Jack \ (MVP-Networking)." <Jack@xxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 11 Apr 2007 10:47:07 -0400
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Hi

No crossover cable is needed when you connect Giga cards. Giga hardware is MDX by standard(in other words it is automatically sensor and adjust the type of connection).

Current Giga hardware when use with client OS is not really a huge improving over 100mb/sec. (life in the fast lane is not the Giga way yet ;)). Home

Giga Network: <http://www.ezlan.net/giga.html>

Giga networking – http://www.ezlan.net/giga_net.html

Jack (MVP-Networking).

"Guy Scharf" <guy@xxxxxxxxxxx> wrote in message

news:Xns990EAD7E0A88Aguyspamcopnet@xxxxxxxxxxxxxxxxxxxxxx

I have a workgroup network running Windows XP Pro on all machines. Two computers have Marvell gigabit ethernet adapters on board with jumbo frames (9k) enabled. All computers are connected through a single Netgear GS108 switch, which supports jumbo frames. TCP parameters on all machines are at their default values.

One of the two computers is serving both as a workstation and as NAS for one other computer.

When transferring files, Task Manager's Networking page shows 26% to 27% busy on the network adapters. Ethereal confirms that jumbo frames are being used.

I am wondering if there is a way to improve throughput, perhaps doubling or even tripling it. I particularly want to optimize transfer rates between one workstation and the other that serves as both workstation and NAS. Is this possible?

Two possibilities that occur to me are to increase the TCP receive window or to connect the computers directly, bypassing the switch. Is either approach likely to improve throughput?

Both computers have two ethernet ports, so the hardware capability exists, but I am uncertain how I would need to configure TCP to support

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effectively two connections between the systems. Would I just use static IPs for the second connection, outside the subnet used for the rest of the network? Would this be likely to improve performance?

Or, what else should I try?

Thanks!