

# Re: Large file copy performance issue with Windows 2003

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.networking/2005-07/msg00011.html>

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- *From:* Manny Borges <[MannyBorges@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:MannyBorges@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Fri, 1 Jul 2005 11:04:02 -0700
- 

Hi I think you are onto a good path.

There are 4 items that are going to influence performance.

CPU

RAM

Disk subsystem

Network interface.

I would think that the Disk subsystem is caching to RAM and hitting a roadblock there.

I would contact Dell or CERC and see if they can shed any light on the controller, how much cache it has and whether it is write through or write back caching.

"COERCITAS" wrote:

- > Hello Todd and thanx for your quick and informative reply.
- >
- > I'll try to answer as best as I can your points :
- >
- > 1) Everything is up to date I think. I fail to find any component not
- > running the last drivers.
- >
- > 2) Same answer, of course. I'll check out if there are any really usefull
- > utility with those NICs, I think there are.
- >
- > 3) Everything is OK with DNS and TCP/IP configuration.
- >
- > 4) Everything is set to 1000 (full, of course). There is no error while
- > connecting nor working, only performance drop box side.
- >
- > 5) disabling this would prevent me from connecting to the said server with
- > TS for example, which may cause many problems the way we are using it...I
- > tried nonetheless but except the inability to connect with TS, nothing
- > worked better. I didn't read all the documents you linked, will do by the

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> way.  
>  
> 6) Tried this already, didn't change anything.  
>  
>  
> I may add it seems the problem is memory related since it occurs when server  
> run out of memory, which happens very quickly when we try to copy large  
> files. I guess the system caches data in memory before writing it to disk  
> but data come much more quickly than system can write to drives. Behaviour  
> may be caused by hard drive failure or RAID failure. I will check all of  
> this and keep you updated.  
>  
>  
> By the way, do someone know how to configure memory cache behaviour with  
> disks in registry ?  
>  
>  
>  
> Regards  
>  
>  
>  
> "Todd J Heron" <todd\_heron\_no\_spam@xxxxxxxxxxxx> a écrit dans le message de  
> news: #rWo6PSfFHA.3124@xxxxxxxxxxxxxxxxxxxxxxxxxxxx  
>> 1) Temporarily disable any real-time anti-virus software to see if that  
>> helps, and if it does, re-configure your AV settings to something more  
>> appropriate for your environment. Also, in cases of a direct cross-over  
>> cable between a client and a server, buy a switch and use regular CAT 6  
>> cable.  
>>  
>> 2) Verify that you are running the latest and the correct network adapter  
>> driver. Obtain and install the latest manufacturer driver for the card  
>> instead of using one that Microsoft has provided. (also see if the  
>> manufacturer has any utilities you can use to check NIC performance).  
>>  
>> 3) Verify that you can resolve the server name from the client and that  
> the  
>> client can resolve the server. Check DNS and make sure your server has  
> only  
>> the correct IP address.  
>>  
>> 4) Verify the network cards of all clients and servers, switches, hubs and  
>> routers are set to the same speed and duplex settings (i.e. 100mb/sec &  
> Full  
>> duplex). If the hubs or switches have utilities you could use to see if  
> it  
>> may be logging errors that will help your troubleshoot if it is a patch  
>> cable somewhere on the network. If hard-coding the same speed doesn't  
> help,  
>> then set all devices back to auto-negotiate.  
>>



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