

## RE: Multiple NIC Path Selection Issue / Disconnection Issue

**Source:**

<http://www.tech-archive.net/Archive/Development/microsoft.public.win32.programmer.networks/2004-12/0319.html>

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**Date:** 12/16/04

Date: Thu, 16 Dec 2004 11:15:01 -0800

Well it seems that the driver of one netcard under high load monopolizes the cpu, and causes starvation of another card.

Try different netcards.

--PA

"Apaseall" wrote:

> *Hi,*

> *Hope this is the correct place to ask this question.*

> *Please advise if incorrect.*

>

> *Situation is fairly simple (or at least I will try and describe it simply).*

> *I am looking at 2 PC's both with 2 NIC's. These are part of a network*

> *consisting of 3 PC's in total.*

>

> *1 NIC in each of the 2 PC's connects to a switch. This switch then connects*

> *to a third PC which provides internet connectivity. This switched network is*

> *@ 100 Mbps, and works fine (I can see the internet from all PC and can share*

> *files etc).*

>

> *This switched network is a 192.168.0.\* network.*

> *The third PC runs NAT & DNS for switched network.*

>

> *The other two NIC's in the PC's I am looking at are connected to each other*

> *via crossed cable, running @ 1 Gbps, and on a 192.168.2.\* network.*

>

> *What I want is to use the 100 Mbps switched connection for internet.*

> *I want to use the 1 Gbps direct connection for file transfers between the*

> *two PC's I am looking at.*

>

> *Heres the thing.*

> *I can disable the internet connections or unplug cables for the switched*

> *network. At that point the 1 Gbps network is the only available network and*

> *appears to run ok. Ping works fine and large file copy activity works*

> *(although network utilization never gets above 20 percent, I suspect HDD*

> *transfer limit).*

- >
- > *I can then enable the switched network by either re-plugging or enabling.*
- > *Both networks appear stable. Ping to any network card is possible at this*
- > *initial point.*
- >
- > *However if I now try and copy a large file (or folder with 2 or more files*
- > *of at least 700 Mb) the 1 Gbps connection keeps disconnecting and*
- > *reconnecting very rapidly.*
- >
- > *Sometimes these disconnections appear to be over looked and the file(s)*
- > *transfers ok.*
- > *Other times the file(s) cannot be copied, and browsing to the files source*
- > *gives error messages, ping to 1 Gbps NIC's not possible. I can however*
- > *re-explore the network tree to the source of the file by moving down the*
- > *network places tree.*
- > *Finally the transfer sometimes takes place over the 100 Mbps switched network.*
- >
- > *So in summary is there a way to force usage of the 1 Gbps direct connection*
- > *in preference to using the 100 Mbps ?*
- >
- > *BTW the switch is only capable of 10/100 Mbps.*
- > *Cables are new and have been moved around possible connections so I would*
- > *like to rule that out.*
- >
- > *Any further details gladly given.*
- >