

Re: NDIS – asymmetric link speed

Source:

<http://www.tech-archive.net/Archive/Development/microsoft.public.development.device.drivers/2005-01/0872.html>

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TCP/IP has no way of knowing that duplex has changed (not today). If you change any advanced property of a NIC, you will cause the NIC to get halted and restarted again in which case all TCP connections will be lost. The change that you in TCP window size might be more related to reestablishing the connection than anything else.

Even if you could change the effective link speed of the network without restarting the NIC, (unplug from a 100meg switch, plug to a 10 Meg switch) and you noticed a change in TCP window size, you can not assume that TCP window size change is due to stack dynamically (=after the bind process) "directly" monitoring the reported link speed from the NIC. Any "dynamic" changes here –could– be the result of the self regulating algorithm in the stack more than anything else.

NDIS 6.0 will support asymmetric link speed. By then, hopefully how link speeds will be used for what purpose (routing table metrics, TCP initial window size/connection time out determination, etc.) will be documented somewhere.

–ali

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"Arkady Frenkel" <arkadyf@hotmailxdotxcom> wrote in message
news:exXT%23U0%23EHA.2596@tk2msftngp13.phx.gbl...
> You can check that in any modern Os (including XP SP2) : set half-duplex
> and you'll see the change in TCPwindowSize by any sniffer (netmon ,
> ethereal...). Unless Intel still continue to produce serialized drivers
> :)
> Arkady
>
> "Maxim S. Shatskih" <maxim@storagecraft.com> wrote in message
> news:#FujTev#EHA.3472@TK2MSFTNGP14.phx.gbl...
>> Alireza already told us that the "full-duplex" mode is a no-op in
> modern
>> Windows, since the real deserialized miniports are out here.
>>
>> --
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