Forum: CentOS 5 - Networking Support

Topic: CentOS 5.3 nvidia nForce network bugs, kernel panics (forcedeth, MCP67)

Subject: Re: CentOS 5.3 nvidia nForce network bugs, kernel panics (forcedeth, MCP67)

Posted by: AlanBartlett

Posted on: 2009/6/19 16:59:20

Quote:
Thanks a lot!
You're welcome.

Quote:
Because today is the evening of Friday (in central Europe) so it's time to drink beer

What a good idea!

Quote:

What you suggestions as for forcedeth optimization_mode ?

We, the ELRepo Admin team, did not write the actual driver code -- we have just packaged the most recent version that is available.

As I do not have a system with such a NIC, I've never used, let alone experimented, with that driver.

Let's have a look at the configurable parameters --

$ modinfo -F parm forcedeth.ko tagging_8021pq:802.1pq tagging is enabled by setting to 1 and disabled by setting to 0. wol:Wake-On-Lan is enabled by setting to 1 and disabled by setting to 0. dma_64bit:High DMA is enabled by setting to 1 and disabled by setting to 0. rx_flow_control:Rx flow control is enabled by setting to 1 and disabled by setting to 0. tx_flow_control:Tx flow control is enabled by setting to 1 and disabled by setting to 0. rx_ring_size:Rx ring size. Maximum value of 1024 or 16384 depending on hardware. tx_ring_size:Tx ring size. Maximum value of 1024 or 16384 depending on hardware. rx_checksum_offload:Rx checksum offload is enabled by setting to 1 and disabled by setting to 0. tx_checksum_offload:Tx checksum offload is enabled by setting to 1 and disabled by setting to 0. mtu:MTU value. Maximum value of 1500 or 9100 depending on hardware. tso_offload:TCP Segmentation offload is enabled by setting to 1 and disabled by setting to 0. scatter_gather:Scatter gather is enabled by setting to 1 and disabled by setting to 0. autoneg:PHY autonegotiate is enabled by setting to 1 and disabled by setting to 0. speed_duplex:PHY speed and duplex settings. Auto = 0, 10mbps half = 1, 10mbps full = 2, 100mbps half = 3, 100mbps full = 4, 1000mbps full = 5. msix:MSIX interrupts are enabled by setting to 1 and disabled by setting to 0. msi:MSI interrupts are enabled by setting to 1 and disabled by setting to 0. poll_interval:Interval determines how frequent timer interrupt is generated by [(time_in_micro_secs * 100) / (2^10)]. Min is 0 and Max is 65535. optimization_mode:In throughput mode (0), every tx & rx packet will generate an

interrupt. In CPU mode (1), interrupts are controlled by a timer. max_interrupt_work:forcedeth maximum events handled per interrupt lowpowerspeed:Low Power State Link Speed enable by setting to 1 and disabled by setting to 0
Quite a few to experiment with. [redacted]

Quote:
I'm planning to do a stress test on Monday.
Good luck.