

Re: Nvidia MCP55 Machine reboots on ixgb driver load

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Roger Heflin wrote:

I have seen something similar with the ixgb. make certain there are ****NO**** other adapters sharing the PCI bus with the ixgb. There are some serious hardware compatibility issues with the ixgb mixing it with other cards on the same PCI-X bus, and I have seen power loading problems, performance slowdowns, reboots, and other issues when an ixgb is installed in a system.

Bottom line, the ixgb adapters were not ready for prime time. If you can obtain a PCI-E version of the card, I am using intel PCI-E based cards with the MCP55 chipset and they seem to work ok, but I have not yet tried an ixgb with this chipset.

The ixgb does prefetching of addresses to improve performance over their problematic ring buffer design with NCMF performance issues, and they seem to use this prefetching architecture to get around these performance issues. The net result is the cards have problems with non-standard hardware and chipsets.

Jeff

Hello,

I have a machine (actually 2 machines) that upon loading the intel 10GBe driver (ixgb) the machine reboots, I am using a RHAS4.4 based distribution with Vanilla 2.6.19.2 (the RHAS 4.4.03 kernel also reboots with the ixgb load), I don't see any messages on the machine before it reboots, loading the driver with debug does not appear to produce any extra messages. The basic steps are the I load the driver, the machine locks up, and then in a second or 2 it starts to post.

I have tried the default ixgb driver in 2.6.19.2, and I

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have tried the open source intel driver on RH4.4, both cause the same reboot. I also tried the linux firmware development kit, and booting fc6 causes the same reboot upon the network driver load.

I have tried pci=noms, noacpi, noapic, acpi=off, and a few others with the results staying the same. I have also tried various bios settings with no changes, the bios in the machine is the latest, a beta bios has similar results, I am talking to the MB vendor about the issue.

I have 2 of the intel boards and they both appear to produce this behavior with this type of motherboard, with a different motherboard (different chipset) they appear to at least load the driver without killing the machine work correctly.

dmesg and lspci, and lspci -vv, interrupts, and iomem follow.

I suspect that it is a bios issue, and that there may not be a way around it, except for fixing th