

# Re: nfs-server silent data corruption

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2008-04/msg00234.html>

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- *From:* Jeremy Chadwick <[koitsu@xxxxxxxxxxx](mailto:koitsu@xxxxxxxxxxx)>
  - *Date:* Mon, 21 Apr 2008 08:43:33 -0700
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On Mon, Apr 21, 2008 at 04:52:55PM +0200, Arno J. Klaassen wrote:

Kris Kennaway <[kris@xxxxxxxxxxx](mailto:kris@xxxxxxxxxxx)> writes:

Uh, you're getting server-side data corruption, it could definitely be because of the memory you added.

yop, though I'm still not convinced the memory is bad (the very same Kingston ECC as the 2\*1G in use for about half a year already) :

Can you download and run memtest86 on this system, with the added 2G ECC insalled? memtest86 doesn't guarantee showing signs of memory problems, but in most cases it'll start spewing errors almost immediately.

One thing I did notice in the motherboard manual below is something called "Hammer Configuration". It appears to default to 800MHz, but there's an "Auto" choice. Does using Auto fix anything?

I added it directly to the 2nd CPU (diagram on page 9 of [http://www.tyan.com/manuals/m\\_s2895\\_101.pdf](http://www.tyan.com/manuals/m_s2895_101.pdf)) and the problem seems to be the interaction between nfe0 and powerd .... :

That board is the weirdest thing I've seen in years.

Two separate CPUs using a single (shared) memory controller, two separate (and different!) nVidia chipsets, a SMSC I/O controller probably used for serial and parallel I/O, two separate nVidia NICs with Marvell PHYs (yet somehow you can bridge the two NICs and PHYs?), two separate PCI-e busses (each associated with a separate nVidia chipset), two separate PCI-X busses... the list continues.

I know you don't need opinions at this point, but what a behemoth. I can't imagine that thing running reliably.

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– if I stop powerd, problems go away

This would imply that clock frequency stepping is somehow attributing itself to the corruption. I don't see any BIOS options for controlling things related to AMD's Cool-n-Quiet or PowerNow! feature, which is usually what handles this.

– I let run powerd but turn of txcsun and tso4 on the interface, the problem is a