

Re: IBM xSeries 336 dual Xeon hangs on boot when APIC enabled

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- *From:* John Baldwin <jhb@xxxxxxxxxxxx>
 - *Date:* Tue, 15 Aug 2006 08:03:25 -0400
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On Tuesday 15 August 2006 05:25, Arjan van Leeuwen wrote:

2006/8/14, John Baldwin <jhb@xxxxxxxxxxxx>:

On Monday 14 August 2006 04:45, Arjan van Leeuwen wrote:

2006/8/13, Michael Landin Hostbaek
<mich@xxxxxxxxxxxx>:

Arjan van Leeuwen (avleeuwen) writes:

I'm trying to boot FreeBSD
6.1-RELEASE/amd64 on
an IBM xSeries 336

machine

with dual Xeons 3.2GHz
installed.

The installation was
successful, but
if I try to boot the SMP
kernel, it hangs after
detection of SCSI

and

ATA

devices (possibly when
doing the initialization of
the mpt0 RAID

controller,

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or when it tries to start the second CPU?).

I've just had a similar problem with an IBM xSeries 232 – it would not boot with apic enabled.. I chased the problem down to the network adapter (fxp) – and when disabling the planar ethernet in BIOS it

would

boot with SMP.

Yes! Indeed, the system boots perfectly well if I disable both network adapters (bge, see dmesg.boot posted earlier). However, I need at least one functioning network

adapter...

I managed to get both NIC and SMP working by disabling a bunch of stuff

in the BIOS, fx both serial ports and also the floppy drive.

... and this doesn't seem to work for me.

So:

- 1) Why does my system hang if I enable the network adapter?
- 2) Why does it only hang if APIC is enabled?

Arjan

Compile DDB into your SMP kernel. When it 'hangs', break into ddb and run 'show intrcnt' to see if you are having an interrupt storm.

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I can't break into DDB during the hang, it's not responding. I can do it just before the hang, but that doesn't seem very helpful.

Is there another way to force it to break?

If you can't break into DDB then it must be spinning with interrupts disabled. If you have firewire you can try running kgdb over firwire to debug it.

—

John Baldwin

freebsd-stable@xxxxxxxxxxx mailing list

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