
Subject: RE: dpt_i2o: cycle with interrupts disabled
Posted by [mark_salyzyn](#) on Tue, 03 Oct 2006 17:17:50 GMT
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This is a sign of a serious hardware problem. The timeout of this loop was set to 30 seconds when the NMI watchdog used to be set to 60 seconds. Now that it is 30 seconds, I recommend you drop the loop timeout to 20 seconds so that it times out before the system notices.

The serious hardware problem will then turn from a panic into a slightly more graceful failure to talk to the adapter as it is no longer responsive and the devices will all go offline. I suggest you look into why the Adapter is failing on your system; look into Power Supply, PCI bridge, Motherboard or the Card itself. I have no body of experience as to why you may see this failure, but you may wish to contact Adaptec Technical support as they may have some sage advice.

Sincerely -- Mark Salyzyn

> -----Original Message-----

> From: Vasily Averin [mailto:vvs@sw.ru]

> Sent: Tuesday, October 03, 2006 5:29 AM

> To: Salyzyn, Mark

> Cc: devel@openvz.org

> Subject: dpt_i2o: cycle with interrupts disabled

>

>

> Mark,

>

> I would like to tell you that we have included your driver

> into our kernels.

> Unfortunately it does not work well and our customers who

> tried to use it

> instead of i2o_block driver claims on the node lockups.

> We have received error messages, it shows that NMI watchdog

> detected that your

> driver loops in the following cycle up to 30 sec with

> interrupts disabled:

>

> scsi_dispatch_cmd() (spin_lock_irqsave(host->host_lock, flags);)

> host->host->queuecommand() == adpt_queue()

> adpt_scsi_to_i2o()

> adpt_i2o_post_this():

> ...

> ulong timeout = jiffies + 30*HZ;

> do {

> rmb();

```
>         m = readl(pHba->post_port);
>         if (m != EMPTY_QUEUE) {
>             break;
>         }
>         if(time_after(jiffies,timeout)){
>             printk(KERN_WARNING"dpti%d: Timeout
> waiting for message
> frame!\n", pHba->unit);
>             return -ETIMEDOUT;
>         }
>     } while(m == EMPTY_QUEUE);
> ...
>
> Have you probably some ideas how to fix this issue in a proper way?
>
> Thank you,
> Vasily Averin
>
> SWsoft Virtuozzo/OpenVZ Linux kernel team
>
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