
Subject: Re: SATA HDD Problem

Posted by [vaverin](#) on Tue, 17 Jul 2007 02:50:50 GMT

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Markus, Kirill

About http://bugzilla.kernel.org/show_bug.cgi?id=8650

We have not one but at least 3 different problems here:

1) interrupts-related issue on VIA hardware.

Comment #27 From Tejun Heo 2007-07-10 09:09:09:

2. The PATA and SATA controllers share a PCI IRQ line. The PATA controller also seem to be hardwired to 14 or 14/15 depending on controller mode. The driver/ide drivers use IRQ auto-detection and detect 14 for the PATA part while libata honors pdev->irq and use 20. The end result is the same tho. One of the two hosts lose ability to assert IRQ and everything falls down. It's definitely related to IRQ routing and is really peculiar. Well, I wouldn't expect anything less from the vendor. :-) Does "acpi=noirq" make any difference?

VvS: I would note that using libata drivers (instead ide) for PATA controller makes the situation much better, but unfortunately do not closes this issue completely: with using libata driver I've reproduced this issue, however it was only once. Also I would add that I still cannot reproduce this issue with "acpi=noirq".

2) Another issue is infinite Error Handling resets for ide-attached DVD-ROM. It is unpleasantly too because of it generates tonns of garbage messages in the system logs, however it brokes nothing on my node and therefore it have low severity for me.

3) ext3/jbd-related issue:

AIM7 test leads to the ext3/jbd lockup on 2.6.22-rc4 and -rc7 kenrels. However it looks like this issue is go away: I've updated the kernel up to 2.6.22 and still cannot reproduce it since Jul 12.

I know nothing about 2.6.9-based kernels. IMHO interrupt-related issue should be present on this kernels too, however I never saw bugreports until we have upgraded to 2.6.18 kernels.

Also I would note that all 3 issues are not Virtuozzo-specific and any new bugreports should be addressed to libata or ext3 developers but not to me, I'm just a tester in this situation.

Markus, your situation is not clear for me. I even cannot confirm that you have the same issue as I've observed. At the first glance all issues looks similar but can have the different reasons.

I do not know all details of your situation and may be wrong. However IMHO "device error" messages in your logs points to some disk drive failure. I would note that in my case this message was "timeout" and from my point of view it is important difference.

I would like to recommend you find the way to reproduce issue on your node, collect all information described your situation (all kernel messages beginning from node booting, lspci -vvvxxx output, probably something else) and send bugreport to libata developers.

If you don't want to investigate this bug -- I recommend you try to replace your hardware, beginning at disk drive.

Thank you,
Vasily Averin
