
Subject: Re: [Q] workaround for ide (native) leads to irq storm?

Posted by [vaverin](#) on Fri, 17 Nov 2006 12:54:43 GMT

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Vasily Averin wrote:

> Tejun Heo wrote:

>> Vasily Averin wrote:

>>> I've reproduced this issue on linux 2.6.19-rc5 kernel.

>>>

>>> Please see http://bugzilla.kernel.org/show_bug.cgi?id=7518 for details

>>

>> Fortunately, libata is immune to the problem because it does

>> ap->ops->irq_clear(ap) in ata_host_intr() regardless of command type in

>> flight. So, not loading IDE piix and using libata to drive all piix

>> ports solves the problem.

>

> I've disabled IDE support in the config and recompiled the kernel.

> It seems you are right, problem go away, new kernel was booted without any

> problems and works well.

>

> As a linux support engeneer I've seen this issue several times on the user-nodes

> and it was very hard to understand what's happened and how to prevent this issue

> in the future. First question is resolved now but from support point of view it

> is very important to find some workaround against this issue on existing

> distributions. Right now I see only one way: if this issue is detected on the

> user node, we can add something like "ide=disable" into kernel commandline.

I've tried to find the some work around for this issue. "hda=noprobe" helps, CD is not detected on the node and all other devices on the node works well...

However if I have additional device who uses the same irq the issue returns back. When I enable USB support on my testnode, one of USB controllers requests the same IRQ line. And IRQ storm occurs again when I load uhci_hcd driver on the node. It is very strange for me: we do not have any IDE devices in this case.

I would note, that I've seen the same behaviour when I detach the CDROM manually.

I've updated the bug.

Thank you,
Vasily Averin
