Subject: Re: 64bit DMA in i2o_block Posted by Markus Lidel on Fri, 22 Sep 2006 10:14:27 GMT View Forum Message <> Reply to Message

Hello,

Vasily Averin wrote:

- > I've found that your driver does not work correctly with following options:
- > CONFIG_I2O_EXT_ADAPTEC=y
- > # CONFIG_I2O_EXT_ADAPTEC_DMA64 is not set
- > I've checked it on 2.6.18 kernel on x86_64 node with 4Gb memory.

That could be the reason for the problems. I've only tried it on $x86_64$ machines with < 4 GB memory...

- > I would note that I've not noticed any bugs on x86 kernels, but x86_64 does not
- > work at all.
- > The behaviors of x86_64 kernels can differ:
- > sometimes driver can not find partition table:
- > i2o/hda: unknown partition table
- > sometimes it find not all partition:
- > i2o/hda: i2o/hda1 i2o/hda2 i2o/hda3 i2o/hda4 < >
- > in other cases it detects devices well but corrupt the memory and filesystem:
- > Sep 21 16:46:09 ts10 block-osm: registered device at major 80
- > Sep 21 16:46:09 ts10 i2o/hda: i2o/hda1 i2o/hda2 i2o/hda3 i2o/hda4 < i2o/hda5 >
- > Sep 21 16:46:09 ts10 block-osm: device added (TID: 207): i2o/hda
- > Sep 21 16:46:09 ts10 kjournald starting. Commit interval 5 seconds
- > Sep 21 16:46:09 ts10 EXT3-fs: mounted filesystem with ordered data mode.
- > Sep 21 16:46:10 ts10 Freeing unused kernel memory: 236k freed
- > Sep 21 16:46:10 ts10 hotplug[961]: segfault at 000000000000000 rip
- > 00000032411088cf rsp 00007fff5b189050 error 4
- > When I enabled CONFIG_I2O_EXT_ADAPTEC_DMA64 -- all the troubles went away.
- > I've tried to investigate this issue, but I've not found and documentation
- > described format of Adaptec's private messages.
- > I would like to ask you, is this behavior specific for my hardware (Adaptec
- > ASR-2010S I2O Zero Channel)? If not, I believe it makes sense to enable
- > CONFIG_I2O_EXT_ADAPTEC_DMA64 in Kconfig by default for 64-bit kernels.

I believe it's a driver issue. Do you have a testing-system where you could try out the appended patch?

Thank you very much.

Best regards,

Markus Lidel

_____ Markus Lidel (Senior IT Consultant)

Shadow Connect GmbH Carl-Reisch-Weg 12 D-86381 Krumbach Germany

_ _

Phone: +49 82 82/99 51-0 Fax: +49 82 82/99 51-11

E-Mail: Markus.Lidel@shadowconnect.com URL: http://www.shadowconnect.com

Page 2 of 2 ---- Generated from OpenVZ Forum