
Subject: Re: megaraid_mbox: garbage in file
Posted by [vaverin](#) on Fri, 05 May 2006 23:32:48 GMT
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Ju, Seokmann wrote:

> Can you do one quick change in the driver?

> Search for 'pci_set_dma_mask()' API calls in the driver and mask out one of them with DMA_64BIT_MASK as follow.

> ---

> // if (pci_set_dma_mask(adapter->pdev, DMA_64BIT_MASK) != 0) {

>

> // conlog(CL_ANN, (KERN_WARNING

> // "megaraid: could not set DMA mask for 64-bit.\n");

>

> // goto out_free_sysfs_res;

> // }

> ---

>

> I found that the driver is NOT checking 64-bit DMA capability of the controllers accordingly and this could be a reason.

This change help me:

megaraid mailbox: status:0x0 cmd:0xa7 id:0x1f sec:0x1a lba:0x33f624ac

addr:0xffffffff id:128 sg:4

scsi cmnd: 0x28 0x00 0x33 0xf6 0x24 0xac 0x00 0x00 0x1a 0x00

mbox request_buffer ebeb9380 use_sg 4

mbox sg0: page 050c5d88 off 0 addr e90d2000 len 4096 virt eb0d2000

first 732e646c page->flags 20000000

mbox sg1: page 050c5710 off 0 addr e90a4000 len 4096 virt eb0a4000

first 00000003 page->flags 20000000

mbox sg2: page 050c4438 off 0 addr e901e000 len 4096 virt eb01e000

first 00000000 page->flags 20000000

mbox sg3: page 030d64dc off 1024 addr 5f3f400 len 1024 virt 07f3f400

first 19398a0e page->flags 20001004

Errors go away, file content is correct.

> I'm waiting for feedback from F/W team for MegaRAID 150-4 controller if it supports 64-bit DMA.

>

> I'll update here as I get.

How do you this, can it be the cause of

http://bugzilla.kernel.org/show_bug.cgi?id=6052

If so, you have a good chance to resolve this bug too :)

Thank you,
Vasily Averin

