Subject: RE: [PATCH 2.6.19-rc2] scsi: megaraid_{mm, mbox}: 64-bit DMAcapability fix

Posted by Seokmann.Ju on Mon, 16 Oct 2006 20:37:20 GMT View Forum Message <> Reply to Message

Hi,

> Er ... this patch would apply in reverse, but what's in the tree > currently looks to be correct. No, the patch submitted by Andrey and Vasily should fix the issue. Without this, driver still claims 64-bit DMA capability for those MegaRAID SATA controllers. ---Example) For SATA 150-6 with OLD filter, if (((1) && ((0) || (1))) || (0) || (0) || (0) || (0) || (0) { ...; } driver gets into inside of if clause and set DMA mask with 64-bit which is NOT correct. However, with the patch, if (((1) && ((0) && (1))) || (0) || (0) || (0) || (0) || (0) { ...; } driver bypasses this filter and stay with 32-bit DMA mask. Seokmann > -----Original Message-----> From: James Bottomley [mailto:James.Bottomley@SteelEye.com] > Sent: Monday, October 16, 2006 3:35 PM > To: Vasilv Averin > Cc: Linux Kernel Mailing List; linux-scsi@vger.kernel.org; > Ju, Seokmann; Andrew Morton; Linus Torvalds; > devel@openvz.org; Andrey Mirkin > Subject: Re: [PATCH 2.6.19-rc2] scsi: megaraid_{mm,mbox}: > 64-bit DMAcapability fix > > On Mon, 2006-10-16 at 12:08 +0400, Vasily Averin wrote: > It is known that 2 LSI Logic MegaRAID SATA RAID Controllers > (150-4 and 150-6) > > don't support 64-bit DMA. Unfortunately currently this > check is wrong and driver >> sets 64-bit DMA mode for these devices. > > > Signed-off-by: Andrey Mirkin <amirkin@sw.ru> > > Ack-by: Vasily Averin <vvs@sw.ru> > > >> ----

- > linux-2.6.19-rc2/drivers/scsi/megaraid/megaraid_mbox.c.mgst6
- > 2006-10-16
- > > 10:26:50.00000000 +0400
- >>+++ linux-2.6.19-rc2/drivers/scsi/megaraid/megaraid_mbox.c
- > 2006-10-16
- > > 11:30:55.00000000 +0400
- > > @ @ -884,7 +884,7 @ @ megaraid_init_mbox(adapter_t *adapter)
- >>
- >> if (((magic64 == HBA_SIGNATURE_64_BIT) &&
- >> ((adapter->pdev->subsystem_device !=
- >> PCI_SUBSYS_ID_MEGARAID_SATA_150_6) ||
- >>+ PCI_SUBSYS_ID_MEGARAID_SATA_150_6) &&
- >> (adapter->pdev->subsystem_device !=
- >> PCI_SUBSYS_ID_MEGARAID_SATA_150_4))) ||
- >> (adapter->pdev->vendor == PCI_VENDOR_ID_LSI_LOGIC &&
- >
- > Er ... this patch would apply in reverse, but what's in the tree
- > currently looks to be correct.
- >
- > James
- >
- >
- >

Subject: RE: [PATCH 2.6.19-rc2] scsi: megaraid_{mm,mbox}: 64-bit DMAcapability fix

Posted by James Bottomley on Mon, 16 Oct 2006 20:59:59 GMT View Forum Message <> Reply to Message

On Mon, 2006-10-16 at 14:37 -0600, Ju, Seokmann wrote:

> Hi,

- >> Er ... this patch would apply in reverse, but what's in the tree
- > > currently looks to be correct.
- > No, the patch submitted by Andrey and Vasily should fix the issue.
- > Without this, driver still claims 64-bit DMA capability for those MegaRAID SATA controllers.

Actually ... I found the problem ... the patch is double attached in the email so applying it spits reverse patch applied errors. I've corrected this and put it in the tree.

James