```
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
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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: Vasily 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
> > 10:26:50.000000000 +0400
>> +++ linux-2.6.19-rc2/drivers/scsi/megaraid/megaraid_mbox.c
> 2006-10-16
> > 11:30:55.000000000 +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
>
>
```