Subject: [PATCH 2.6.19-rc2] scsi: megaraid_{mm, mbox}: 64-bit DMA capability fix
Posted by vaverin on Mon, 16 Oct 2006 08:08:43 GMT
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From: Andrey Mirkin (amirkin@sw.ru)

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 &&


---  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 &&
```

Subject: RE: [PATCH 2.6.19-rc2] scsi: megaraid_{mm, mbox}: 64-bit DMA capability fix
Posted by Seokmann.Ju on Mon, 16 Oct 2006 12:32:14 GMT
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Hi,
Monday, October 16, 2006 4:09 AM, 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.
ACK - this patch will fix the problem.
Thank you for the finding, Vasily.

Seokmann

> -----Original Message-----
> From: Vasily Averin [mailto:vvs@sw.ru]
> Sent: Monday, October 16, 2006 4:09 AM
> To: Linux Kernel Mailing List; linux-scsi@vger.kernel.org;
> Ju, Seokmann; James Bottomley; Andrew Morton; Linus Torvalds;
> devel@openvz.org
> Cc: Andrey Mirkin
> Subject: [PATCH 2.6.19-rc2] scsi: megaraid_{mm,mbox}: 64-bit
> DMA capability fix
>
> From: Andrey Mirkin (amirkin@sw.ru)
>
> 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 &&
>
>

Subject: Re: [PATCH 2.6.19-rc2] scsi: megaraid_{mm, mbox}: 64-bit DMA capability fix
Posted by James Bottomley on Mon, 16 Oct 2006 19:34:44 GMT
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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