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M Gmail
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[PATCH] scsi: bfa: add error handling for pci_iomap
Zhouyang Jia <jiazhouyang09@gmail.com>

Mon, Jun 11, 2018

Cc: Zhouyang Jia <jiazhouyang09@gmail.com>, Anil Gurumurthy <anil.gurumurthy@qlogic.com>, Sudarsana Kalluru@qlogic.com>, "James E.J. Bottomley" <jejb@linux.vnet.ibm.com>, "Martin K. Petersen" <martin.petersen@oracle.com>, linux-scsi@vger.kemel.org, linux-kemel.org, linux-kemel.org
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mon, Jun 11, 2018 at 4:26 AM
       When pci iomap fails, the lack of error-handling code may
       cause unexpected results
       This patch adds error-handling code after calling pci_iomap.
      Signed-off-by: Zhouyang Jia <iiazhouyang09@gmail.co
        drivers/scsi/bfa/bfad.c | 5 ++++
1 file changed, 5 insertions(+)
    diff --git aldrivers/scsi/bfa/bfad.c b/drivers/scsi/bfa/bfad.c index bdr/e6a6f.74e3997 100644 -- aldrivers/scsi/bfa/bfad.c -- aldrivers/scsi/bfa/bfad.c -- ++++ b/drivers/scsi/bfa/bfad.c -- (@@ -76.0, + *76.0, 11 @@ bfad_pci_init(struct pci_dev *pdev, struct bfad_s *bfad) goto out_release_region;
                 3
                 3
                      bfad->hal_pcidev.pci_slot = PCI_SLOT(pdev->devfn);
bfad->hal_pcidev.pci_func = PCI_FUNC(pdev->devfn);
bfad->hal_pcidev.pci_bar_kva = bfad->pci_bar0_kva;
    2.7.4
 Johannes Thumshirn <jthumshirn@suse.de>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tue, Jun 12, 2018 at 3:18 AM
To: Zhouyang Jia <jiazhouyang09@gmail.com>
Co: Anil Gurumurthy <anil.gurumurthy@qlogic.co
                                                                                                                                                                  m>, Sudarsana Kalluru <sudarsana kalluru@qlogic.com>, "James E.J. Bottomley" <jejb@linux.vnet.ibm.com>, "Martin K. Petersen" <martin.petersen@oracle.com>, linux-scsi@vger.kernet.org, linux-kemel@vger.kernet.org
    On Mon, Jun 11, 2018 at 04:26:21PM +0800, Zhouyang Jia wrote > When pci_iomap fails, the lack of error-handling code may > cause unexpected results.
       > This patch adds error-handling code after calling pci_iomap
        > Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com
       > ---
> drivers/scsi/bfa/bfad.c | 5 +++++
> 1 file changed, 5 insertions(+)
      > diff -git aldrivers/scsi/bfar/bfad.c b/drivers/scsi/bfa/bfad.c 
> index bd7e6a6f.74e39d7 100644 
> -addrivers/scsi/bfaf/bfad.c 
> -addrivers/scsi/bfaf/bfad.c 
> +++ b/drivers/scsi/bfaf/bfad.c 
> @@ -760.6 +760.11 @@ bfad_pci_init(struct pci_dev *pdev, struct bfad_s *bfad) 
goto out_release_region;
       \(\frac{1}{2}\)
       > 
>+ if (bfad->pci_bar2_kva == NULL) { 
>+ printk(KERN_ERR "Fail to map bar2\n");
                                           goto out_release_region;
       > +
> + }
      If we hit this, we'll "leak" bfad->pci_bar0_kva.
      You'll need to do something like:
      + if (bfad->pci_bar2_kva == NULL) {
+ printk(KERN_ERR "Fail to map bar2\n");
+ goto out_unmap_bar0;
+ }
      + out_unmap_bar0:

+ pci_iounmap(pdev, bfad->pci_bar0_kva);

out_release_region:

pci_release_regions(pdev);
    Johannes Thumshirn

Johannes Thumshirn

Storage

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GF: Felix Innendorffer, Jane Smithard, Graham Norton

HRB 21284 (AG Nümberg)

Key fingerprint = EC38 9CAB C2C4 F25D 8600 DDD0 0393 969D 2D76 0850
Zhouyang Jia <jiazhouyang09@gmail.com>
To. Johannes Thumshim <jirimmshim@suse.de>
Co. Ani Gumunthy <ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumunthy@ani.gumun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Thu. Jun 14, 2018 at 12:34 AM
      I'll fix this in v2. Thanks for your kind reply.
      Rest
       Zhouyang
[Quoted text hi
 Thu, Jun 14, 2018
Cc: Zhouyang Ua <a href="mailto:right">jun 14, 2018
Thu, Jun 14, 2018
Cc: Zhouyang Ua <a href="mailto:right">jun 14, 2018
Cc: Zhouyang Ua <a href="mailto:ri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Thu. Jun 14, 2018 at 7:57 AM
       When pci_iomap fails, the lack of error-handling code may cause unexpected results
      This patch adds error-handling code after calling pci_iomap.
       Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.co
       v1->v2:
- Unmap bfad->pci_bar0_kva.
        drivers/scsi/bfa/bfad.c | 7 ++++++
1 file changed, 7 insertions(+)
    diff --git aldrivers/scsibfa/bfad.c b/drivers/scsi/bfa/bfad.c index bdre6a6f.693e180 100644 -- aldrivers/scsibfa/bfad.c -- aldrivers/scsibfa/bfad.c -+++ b/drivers/scsibfa/bfad.c -+++ b/drivers/scsibfa/bfad.c -- aldrivers/scsibfa/bfad.c -- aldrivers/scsib
       + if (bfad->pci_bar2_kva == NULL) {
+ printk(KERN_ERR "Fail to map bar2\n");
                  printk(KERN_ERR "Fai
goto out_unmap_bar0;
}
    *
bfad->hal_pcidev.pci_slot = PCL_SLOT(pdev.>devfn);
bfad->hal_pcidev.pci_func = PCL_FUNC(pdev.>devfn);
bfad->hal_pcidev.pci_bar(_kva = bfad->pci_bar(_kva;
@@ -797.6 +802.8 @@ bfad_pci_inlt(struct pci_edv *pdev, struct bfad_s *bfad)
```

Andy Shevchenko <andy shevchenko@gmail.com>
Thu, Jun 14, 2018 at 8:00 AM
To: Zhouyang ila <andy shevchenko@gmail.com>
To: Anouyang ila <align="right">ila <andy shevchenko@gmail.com>
Thu, Jun 14, 2018 at 8:00 AM
To: Zhouyang ila <align="right">ila <andy shevchenko@gmail.com>
Thu, Jun 14, 2018 at 8:00 AM
To: Anouyang ila <align="right">ila <andy shevchenko@gmail.com>
Thu, Jun 14, 2018 at 8:00 AM
To: Anouyang ila <align="right">ila <andy shevchenko@gmail.com>
Thu, Jun 14, 2018 at 8:00 AM
To: Anouyang ila <align="right">ila <andy shevchenko@gmail.com>
Thu, Jun 14, 2018 at 8:00 AM
To: Anouyang ila <andy shevchenko@gmail.com>
Thu, Jun 14, 2018 at 8:00 AM
To: Anouyang ila <andy shevchenko@gmail.com>
Thu, Jun 14, 2018 at 8:00 AM
To: Anouyang ila <andy shevchenko@gmail.com>
Thu, Jun 14, 2018 at 8:00 AM
To: Anouyang ila ila <a h

+out_unmap_bar0:

+ pci_iounmap(pdev, bfad->pci_bar0_kva);
out_release_region:
pci_release_regions(pdev);
out_disable_device:

What results? How had you tested it? > This patch adds error-handling code after calling pci_iomap. > + if (bfad->pci_bar2_kva == NULL) { > + printk(KERN_ERR "Fail to map bar2\n"); pr_err() ? > + goto out_unmap_bar0; > + }

With Best Regards, Andy Shevchenko

Zhouyang Jia <jiazhouyang09@gmail.com>
Thu, Jun 14,
To: Andy Shevchenko andy shevchenko@gmail.com>
Co: Andi Shevchenko andy shevchenko@gmail.com>, "Martin K. Petersen" <martin.petersen@oracle.com>, linux-scsi@vger.kernel.org>, Linux Kernel Mailing List Linux-kernel@vger.kernel.org>, "Martin K. Petersen" <martin.petersen@oracle.com>, linux-scsi@vger.kernel.org>, Linux Kernel Mailing List Linux-kernel@vger.kernel.org> Thu. Jun 14, 2018 at 9:22 AM

2018-06-14 20:00 GMT+08:00 Andy Shevchenko On Thu, Jun 14, 2018 at 2:57 PM, Zhouyang Jia wrote: > When pot, Jomap falls, the lack of error-handling code may > cause unexpected results. What results? How had you tested it? I reported this bug since more than 85% callsites of pci_iomap are well handled in kernel. I guess there would be unexpected results if missing error handling. I'm sorry I don't know what results. > This patch adds error-handling code after calling pci_iomap. > + if (bfad->pci_bar2_kva == NULL) { > + printk(KERN_ERR "Fail to map bar2\n"); pr_err() ?

printk is used on the line before the fix, and I inherit the style. I can change it to pr_err if necessary.

> + goto out_unmap_bar0; > + } --With Best Regards, Andy Shevchenko

Best, Zhouyang