

[PATCH] mtd: gpio\_flash: add error handling for ioremap\_nocache

4 messages

When ioremap\_nocache fails, the lack of error-handling code may cause unexpected results.

This patch adds error-handling code after calling ioremap\_nocache.

Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com>

```
---
drivers/mtd/maps/gpio-addr-flash.c | 3 +++
1 file changed, 3 insertions(+)

diff --git a/drivers/mtd/maps/gpio-addr-flash.c b/drivers/mtd/maps/gpio-addr-flash.c
index 385305e..7fba02 100644
--- a/drivers/mtd/maps/gpio-addr-flash.c
+++ b/drivers/mtd/maps/gpio-addr-flash.c
@@ -242,6 +242,9 @@ static int gpio_flash_probe(struct platform_device *pdev)
 {
     state->map.phys = NO_XIP;
     state->map.map_priv_1 = (unsigned long)state;

+    if (!state->map.virt)
+        return -ENOMEM;
+
     platform_set_drvdata(pdev, state);

     i = 0;
 }
--
2.7.4
```

Mon, Jun 11, 2018 at 11:15 PM

Cc: Zhouyang Jia <jiazhouyang09@gmail.com>; David Woodhouse <dwmw2@infradead.org>; Brian Norris <computersforpeace@gmail.com>; Boris Brezillon <boris.brezillon@bootlin.com>; Marek Vasut <marek.vasut@gmail.com>; Richard Weinberger <richard@nod.at>; linux-mtd@lists.infradead.org, linux-kernel@vger.kernel.org

**Boris Brezillon** <boris.brezillon@bootlin.com>

To: Zhouyang Jia <jiazhouyang09@gmail.com>

Cc: Richard Weinberger <richard@nod.at>; linux-kernel@vger.kernel.org, Marek Vasut <marek.vasut@gmail.com>; linux-mtd@lists.infradead.org, Brian Norris <computersforpeace@gmail.com>; David Woodhouse <dwmw2@infradead.org>

Thu, Jun 21, 2018 at 6:21 PM

On Tue, 12 Jun 2018 11:15:00 +0800  
Zhouyang Jia <jiazhouyang09@gmail.com> wrote:

> When ioremap\_nocache fails, the lack of error-handling code may  
> cause unexpected results.  
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> Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com>  
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> diff --git a/drivers/mtd/maps/gpio-addr-flash.c b/drivers/mtd/maps/gpio-addr-flash.c  
> index 385305e..7fba02 100644  
> --- a/drivers/mtd/maps/gpio-addr-flash.c  
> +++ b/drivers/mtd/maps/gpio-addr-flash.c  
> @@ -242,6 +242,9 @@ static int gpio\_flash\_probe(struct platform\_device \*pdev)  
> {  
> state->map.phys = NO\_XIP;  
> state->map.map\_priv\_1 = (unsigned long)state;  
>   
> + if (!state->map.virt)  
> + return -ENOMEM;  
> +

Please move the test just after the ioremap\_nocache() call. Also, I see that iounmap() is never called. Probably a good opportunity to switch to devm\_functs.

[Quoted text hidden]

**Zhouyang Jia** <jiazhouyang09@gmail.com>

To: Zhouyang Jia <jiazhouyang09@gmail.com>; David Woodhouse <dwmw2@infradead.org>; Brian Norris <computersforpeace@gmail.com>; Boris Brezillon <boris.brezillon@bootlin.com>; Marek Vasut <marek.vasut@gmail.com>; Richard Weinberger <richard@nod.at>; linux-mtd@lists.infradead.org, linux-kernel@vger.kernel.org

Thu, Jun 21, 2018 at 9:52 PM

When ioremap\_nocache fails, the lack of error-handling code may cause unexpected results.

This patch adds error-handling code after calling ioremap\_nocache.

Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com>

```
---
v1->v2:
- Move the test just after the ioremap_nocache() call.
---
drivers/mtd/maps/gpio-addr-flash.c | 3 +++
1 file changed, 3 insertions(+)

diff --git a/drivers/mtd/maps/gpio-addr-flash.c b/drivers/mtd/maps/gpio-addr-flash.c
index 385305e..9d97236 100644
--- a/drivers/mtd/maps/gpio-addr-flash.c
+++ b/drivers/mtd/maps/gpio-addr-flash.c
@@ -239,6 +239,9 @@ static int gpio_flash_probe(struct platform_device *pdev)
 {
     state->map.bankwidth = pdata->width;
     state->map.size = state->win_size * (1 << state->gpio_count);
     state->map.virt = ioremap_nocache(memory->start, state->map.size);
 }
--
2.7.4
```

**Boris Brezillon** <boris.brezillon@bootlin.com>

To: Zhouyang Jia <jiazhouyang09@gmail.com>

Cc: David Woodhouse <dwmw2@infradead.org>; Brian Norris <computersforpeace@gmail.com>; Marek Vasut <marek.vasut@gmail.com>; Richard Weinberger <richard@nod.at>; linux-mtd@lists.infradead.org, linux-kernel@vger.kernel.org

Sat, Jul 7, 2018 at 5:59 AM

On Fri, 22 Jun 2018 09:52:20 +0800  
Zhouyang Jia <jiazhouyang09@gmail.com> wrote:

> When ioremap\_nocache fails, the lack of error-handling code may  
> cause unexpected results.  
>  
> This patch adds error-handling code after calling ioremap\_nocache.  
>  
> Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com>

Applied.

Thanks,

Boris

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