

6 messages

Cc: Zhouyang Jia <jiazhouyang09@gmail.com>, Linus Walleij <linus.walleij@linaro.org>, linux-gpio@vger.kernel.org, linux-kernel@vger.kernel.org

Mon, Jun 11, 2018 at 11:28 PM

This patch adds error-handling code after calling `i2c_new_dummy`

```
drivers/gpio/gpio-max732x.c | 12 ++++++++
1 file changed, 12 insertions(+)
```

2.7.4

To: Zhouyang Jia <jiazhouyang09@gmail.com>
Cc: Linus Walleij <linus.walleij@linaro.org>, "open list:GPIO SUBSYSTEM" <linux-gpio@vger.kernel.org>, Linux Kernel Mailing List <linux-kernel@vger.kernel.org>

Tue, Jun 12, 2018 at 4:32 AM

Would driver work w/o these dummy devices?

With Best Regards,
Andy Shevchenko

To: Andy Shevchenko <andy.shevchenko@gmail.com>
Cc: Linus Walleij <linus.walleij@linaro.org>, "open list:GPIO SUBSYSTEM" <linux-gpio@vger.kernel.org>, Linux Kernel Mailing List <linux-kernel@vger.kernel.org>

Thu, Jun 14, 2018 at 4:07 AM

Hi,

I reported this bug since more than 80% callsites of `i2c_new_dummy` are well handled in kernel. I guess there would be unexpected results. I'm sorry I don't know what results neither.

Thanks for your kind reply.

Best,
Zhouyang
[Quoted text hidden]

To: Zhouyang Jia <jiazhouyang09@gmail.com>
Cc: "open list:GPIO SUBSYSTEM" <linux-gpio@vger.kernel.org>, "linux-kernel@vger.kernel.org" <linux-kernel@vger.kernel.org>

Thu, Jun 14, 2018 at 10:27 AM

- > When i2c_new_dummy fails, the lack of error-handling code may cause unexpected results.
- >
- > This patch adds error-handling code after calling i2c_new_dummy
- >
- > Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com>

Patch applied for non-critical fixes.

Yours,
Linus Walleij

To: Linus Walleij <linus.walleij@linaro.org>
Cc: Zhouyang Jia <jiazhouyang09@gmail.com>, "open list:GPIO SUBSYSTEM" <linux-gpio@vger.kernel.org>, "linux-kernel@vger.kernel.org" <linux-kernel@vger.kernel.org>

Fri, Jun 15, 2018 at 5:01 AM

```
On Thu, Jun 14, 2018 at 5:27 PM, Linus Walleij <linus.walleij@linaro.org> wrote:
> On Tue, Jun 12, 2018 at 5:28 AM, Zhouyang Jia <jiazhouyang09@gmail.com> wrote:
> >
> >> When I2c_new_dummy fails, the lack of error-handling code may
> >> cause unexpected results.
> >>
> >> This patch adds error-handling code after calling i2c_new_dummy.
> >>
> >> Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com>
> >
> > Patch applied for non-critical fixes.
```

It might potentially be a regression if the driver used to work when dummy device creation failed.

>
> Yours,
> Linus Walleij
[Quoted text hidden]

Cc: Linus Walleij <linus.walleij@linaro.org>, linux-gpio@vger.kernel.org

Thu, Jun 21, 2018 at 4:07 AM

```

drivers/gpio/gpio-max732x.c
651 switch (client->addr & 0x70) {
652     case 0x60:
653         chip->client_group_a = client;
654         if (nr_port > 8) {
655             c = i2c_new_dummy(client->adapter, addr_b);
656             if (!c)
657                 dev_err(&client->dev,
658                     "Failed to allocate I2C device\n");
659             ret = -ENODEV;
660             goto out_failed;
661         }
662         chip->client_group_b = chip->client_dummy = c;
663     }
664     break;
665     case 0x50:
666         chip->client_group_b = client;
667         if (nr_port > 8) {
668             c = i2c_new_dummy(client->adapter, addr_a);
669             if (!c) {

```

```

670         dev_err(&client->dev,
671                 "Failed to allocate I2C device\n");

```

```
672         ret = -ENODEV;
673         goto out_failed;
674     }
675     chip->client_group_a = chip->client_dummy = c;
676 }
677 break;
678 default:
679     dev_err(&client->dev, "invalid I2C address specified %02x\n",
680             client->addr);
681     ret = -EINVAL;
682     goto out_failed;
683 }
684
685 if (nr_port > 8 && !chip->client_dummy) {
        ^^^^^^^^^^^^^^^^^^^^^
```

But we actually added a check for that already in 2014.

```
686     dev_err(&client->dev,
687             "Failed to allocate second group I2C device\n");
688     ret = -ENODEV;
689     goto out_failed;
        ^^^^^^^^^^^^^^^^^
```

This is a no-op. We could just do a direct return instead if we wanted.

```
690 }
```

regards,
dan carpenter