

[PATCH] net: cxgb3: add error handling for sysfs_create_group

5 messages

David Miller <davem@davemloft.net>

Thu, Jun 14, 2018 at 9:56 AM

Cc: Zhouyang Jia <jiazhouyang09@gmail.com>, Santosh Raspatur <santosh@chelsio.com>, "David S. Miller" <davem@davemloft.net>, netdev@vger.kernel.org, linux-kernel@vger.kernel.org

When sysfs_create_group fails, the lack of error-handling code may cause unexpected results.

This patch adds error-handling code after calling sysfs_create_group.

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

```
---
drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c | 4 +++
1 file changed, 4 insertions(+)
```

```
diff --git a/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c b/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c
index 2edfbd..73d6aa9 100644
--- a/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c
+++ b/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c
@@ -3362,6 +3362,10 @@ static int init_one(struct pci_dev *pdev, const struct pci_device_id *ent)

    err = sysfs_create_group(&adapter->port[0]->dev.kobj,
                           &cxgb3_attr_group);
+    if (err) {
+        dev_err(&pdev->dev, "cannot create sysfs group\n");
+        goto out_free_dev;
+    }

    print_port_info(adapter, ai);
    return 0;
--
2.7.4
```

David Miller <davem@davemloft.net>

Thu, Jun 14, 2018 at 10:00 PM

To: jiazhouyang09@gmail.com

Cc: santosh@chelsio.com, netdev@vger.kernel.org, linux-kernel@vger.kernel.org

From: Zhouyang Jia <jiazhouyang09@gmail.com>

Date: Thu, 14 Jun 2018 21:56:11 +0800

```
> diff --git a/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c b/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c
> index 2edfbd..73d6aa9 100644
> --- a/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c
> +++ b/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c
> @@ -3362,6 +3362,10 @@ static int init_one(struct pci_dev *pdev, const struct pci_device_id *ent)
> >
>     err = sysfs_create_group(&adapter->port[0]->dev.kobj,
>                             &cxgb3_attr_group);
> +    if (err) {
> +        dev_err(&pdev->dev, "cannot create sysfs group\n");
> +        goto out_free_dev;
> +    }
> +
```

You have to do more than this to cleanup. For example, you have to change the LED state back, as it has just been set to indicate that the interface is operational.

Zhouyang Jia <jiazhouyang09@gmail.com>

Thu, Jun 14, 2018 at 11:04 PM

To: David Miller <davem@davemloft.net>

Cc: Santosh Raspatur <santosh@chelsio.com>, netdev@vger.kernel.org, Linux Kernel Mailing List <linux-kernel@vger.kernel.org>

Hi,

I try to change the LED state back by reading the code, since I have limited domain knowledge here. I'm sorry I can't help further.

Thanks for your kind reply.

Best,
Zhouyang
[Quoted text hidden]

Zhouyang Jia <jiazhouyang09@gmail.com>

Thu, Jun 14, 2018 at 11:06 PM

Cc: Zhouyang Jia <jiazhouyang09@gmail.com>, Santosh Raspatur <santosh@chelsio.com>, "David S. Miller" <davem@davemloft.net>, netdev@vger.kernel.org, linux-kernel@vger.kernel.org

When sysfs_create_group fails, the lack of error-handling code may cause unexpected results.

This patch adds error-handling code after calling sysfs_create_group.

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

```
---
v1->v2:
- Turn off led when sysfs_create_group fails
---
drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c | 7 +++++++
1 file changed, 7 insertions(+)
```

```
diff --git a/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c b/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c
index 2edfbd..7b795ed 100644
--- a/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c
+++ b/drivers/net/ethernet/chelsio/cxgb3/cxgb3_main.c
@@ -3362,10 +3362,17 @@ static int init_one(struct pci_dev *pdev, const struct pci_device_id *ent)

    err = sysfs_create_group(&adapter->port[0]->dev.kobj,
                           &cxgb3_attr_group);
+    if (err) {
+        dev_err(&pdev->dev, "cannot create sysfs group\n");
+        goto out_close_led;
+    }

    print_port_info(adapter, ai);
    return 0;

+out_close_led:
+    t3_set_reg_field(adapter, A_T3DBG_GPIO_EN, F_GPIO0_OUT_VAL, 0);
+
out_free_dev:
    iounmap(adapter->regs);
    for (i = ai->nports0 + ai->nports1 - 1; i >= 0; --i)
--
2.7.4
```

David Miller <davem@davemloft.net>

Fri, Jun 15, 2018 at 12:15 PM

To: jiazhouyang09@gmail.com

Cc: santosh@chelsio.com, netdev@vger.kernel.org, linux-kernel@vger.kernel.org

From: Zhouyang Jia <jiazhouyang09@gmail.com>

Date: Fri, 15 Jun 2018 11:06:17 +0800

```
> When sysfs_create_group fails, the lack of error-handling code may
> cause unexpected results.
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> This patch adds error-handling code after calling sysfs_create_group.
>
> Signed-off-by: Zhouyang Jia <jiazhouyang09@gmail.com>
> ---
> v1->v2:
> - Turn off led when sysfs_create_group fails
```

Applied, thank you.