
Subject: Re: [PATCH 5/5] fixing errors handling during pci_driver resume stage [serial]

Posted by [Dmitriy Monakhov](#) on Tue, 09 Jan 2007 15:02:44 GMT

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Russell King <rmk+lkml@arm.linux.org.uk> writes:

> On Tue, Jan 09, 2007 at 12:01:58PM +0300, Dmitriy Monakhov wrote:
>> serial pci drivers have to return correct error code during resume stage in
>> case of errors.

>

> Sigh. *hate* *hate* *hate*.

>

>> diff --git a/drivers/serial/8250_pci.c b/drivers/serial/8250_pci.c

>> index 52e2e64..e26e4a6 100644

>> --- a/drivers/serial/8250_pci.c

>> +++ b/drivers/serial/8250_pci.c

>> @@ -1805,6 +1805,7 @@ static int pciserial_suspend_one(struct

>> static int pciserial_resume_one(struct pci_dev *dev)

>> {

>> struct serial_private *priv = pci_get_drvdata(dev);

>> + int err;

>>

>> pci_set_power_state(dev, PCI_D0);

>> pci_restore_state(dev);

>> @@ -1813,7 +1814,12 @@ static int pciserial_resume_one(struct p

>> /*

>> * The device may have been disabled. Re-enable it.

>> */

>> - pci_enable_device(dev);

>> + err = pci_enable_device(dev);

>> + if (err) {

>> + dev_err(&dev->dev, "Cannot enable PCI device, "

>> + "aborting.\n");

>> + return err;

>> + }

>>

>> pciserial_resume_ports(priv);

>> }

>

> So if pci_enable_device() fails, what do we do with the still suspended
> serial port? Does it clean up that state? Probably not.

>

> Look, merely going around bunging this stupid "oh lets propagate the

> error" crap into the kernel doesn't actually fix _anything_. In fact

> it potentially _hides_ the warnings produced by __must_check which

> give a hint that _something_ needs to be done to _properly_ fix the

> problem.

>
> And by "properly", I mean not just merely propagating the error.
>
> In this particular case, the above may result in resources not being
> freed.
Yep 100% true. But the question is _HOW_? We want shutdown not enabled device.
Is it safe just call pciserial_remove_ports() for this device?
>
> --
> Russell King
> Linux kernel 2.6 ARM Linux - <http://www.arm.linux.org.uk/>
> maintainer of:
> -
> To unsubscribe from this list: send the line "unsubscribe linux-kernel" in
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