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Subject: Re: [PATCH 2.6.18] e1000: fix initialization irqs  
Posted by [Mishin Dmitry](#) on Wed, 22 Nov 2006 16:43:52 GMT  
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On Wednesday 22 November 2006 19:19, Auke Kok wrote:

> Dmitry Mishin wrote:

> > In case of irqpoll boot option set, e1000 may oops due to:

> > 1) e1000 register it's handler with e1000\_request\_irq

> > 2) spurious interrupt happens

> > 3) kernel tries to handle this interrupt with all available descs

> > 4) e1000\_intr is called and oops due to not initialized clean\_rx handler,

> > because e1000\_up is not called yet.

> >

> > Solution is to initialize driver before handler registration.

>

> I'm not so sure of that. even if we request our irq's to be routed it does not mean that

> we told the NIC to send them. It would suggest that you might be haunted by the MSI

> interrupts not working 100% correctly on some non-intel platform.

>

> Now you're telling the NIC to send interrupts before we routed them I think.

>

> If we \_up() before we even have an interrupt, even more bad things could happen.

>

> What is the reason you wrote this workaround?

The reason is simple, we've got this oops due to misrouted interrupts,  
misrouted\_irq() function. This workaround helps us, please, advice how to fix  
it or fix it yourself.

>

> Auke

>

> >

> > Signed-off-by: Dmitry Mishin <dim@openvz.org>

> > Signed-off-by: Pavel Emelianov <xemul@openvz.org>

> >

> > ---

> > e1000\_main.c | 9 +++++----

> > 1 file changed, 5 insertions(+), 4 deletions(-)

> >

> > ---

> > --- ./drivers/net/e1000/e1000\_main.c.e1000 2006-09-20 07:42:06.000000000 +0400

> > +++ ./drivers/net/e1000/e1000\_main.c 2006-11-22 14:08:15.000000000 +0300

> > @@ -1206,14 +1206,15 @@ e1000\_open(struct net\_device \*netdev)

> > if ((err = e1000\_setup\_all\_rx\_resources(adapter)))

> > goto err\_setup\_rx;

> >

> > - err = e1000\_request\_irq(adapter);

> > - if (err)

```
> > - goto err_up;
> > -
> > e1000_power_up_phy(adapter);
> >
> > if ((err = e1000_up(adapter)))
> >     goto err_up;
> > +
> > + err = e1000_request_irq(adapter);
> > + if (err)
> > +     goto err_up;
> > +
> > adapter->mng_vlan_id = E1000_MNG_VLAN_NONE;
> > if ((adapter->hw.mng_cookie.status &
> >     E1000_MNG_DHCP_COOKIE_STATUS_VLAN_SUPPORT)) {
> > -
> > To unsubscribe from this list: send the line "unsubscribe netdev" in
> > the body of a message to majordomo@vger.kernel.org
> > More majordomo info at http://vger.kernel.org/majordomo-info.html
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>
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Thanks,  
Dmitry.

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