

Re: PROBLEM: network driver causes kernel panic

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-06/1270.html>

From: Mikael Pettersson (*mikpe_at_csd.uu.se*)

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Date: Sat, 5 Jun 2004 14:15:04 +0200 (MEST)

To: jgarzik@pobox.com

On Fri, 04 Jun 2004 16:47:13 -0400, Jeff Garzik wrote:

>Mikael Pettersson wrote:

>> This confirms that eth1 is a 21041 driven by the de2104x driver.

>>

>> I've seen something very similar to Casey's problem, on a PowerMac

>> with a built-in 21041. Booting it with no network cable connected

>> causes a timer to hit a BUG() in de2104x about a second after

>> the device is ifup:d.

>>

>> The 2.4 kernel's tulip driver works just fine.

>>

>> I reported this last year, but nothing happened.

>

>

>Well, I'm very interested in debugging it. There were a flurry of

>de2104x patches in the past year, I thought that took care of the issues.

>

>Please email details to netdev@oss.sgi.com and jgarzik@pobox.com...

Booting 2.6.7-rc1 with the de2104x driver built-in and eth0 disconnected from the LAN leads to the following oops about a second after INIT tried to ifup eth0:

eth0: timeout expired stopping DMA

kernel BUG in de_set_media at drivers/net/tulip/de2104x.c:919!

<register dump omitted>

Call trace:

de21041_media_timer

run_timer_softirq

__do_softirq

do_softirq

timer_interrupt

ret_from_except

ppc6xx_idle

cpu_idle

rest_init

start_kernel

Linux-Kernel: Re: PROBLEM: network driver causes kernel panic

The PowerPC kernel decides to panic() after a brief delay at this point, so I can't capture the oops text except by typing it down manually. Besides, I doubt the ppc register dump would be useful; we know which BUG() was hit.

/Mikael

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