

Re: [PATCH] Fix SMP support on 3c527 net driver

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2003-08/8309.html>

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Date: 08/31/03

Date: Sun, 31 Aug 2003 13:50:30 -0300
To: Manfred Spraul <manfred@colorfullife.com>

Hi Manfred,

Manfred Spraul wrote:

- > *Additionally, you must replace the sleep_on calls with wait_event, or an*
- > *open-coded wait queue: sleep_on is racy, it only works with cli().*

Oh, I didn't no that..

- > *IMHO the right way to fix cli() is*
- > *- add a single spinlock to the driver or the device structure. Do not*
- > *forget the spin_lock_init().*
- > *- replace cli/sti with spin_lock_irqsave/spin_unlock_irqsave.*

Yes.

- > *- Additionally acquire the spinlock in every interrupt handler (cli())*
- > *stops all interrupts, spinlocks only stop interrupt on the current cpu).*
- > *- check if there were recursive cli() calls. Fix them.*
- > *- replace all sleep_on calls with wait queue calls.*
- > *- check if there are any kmalloc or schedule calls in the area now under*
- > *the spinlock, and reorganize the code.*

But doesn't wait_queue call schedule()?

- > *And please add a changelog entry that code was converted without testing.*

Ok.

Thanks for your review, will work on those.

Felipe

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It's most certainly GNU/Linux, not Linux. Read more at
<http://www.gnu.org/gnu/why-gnu-linux.html>

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