

Re: bad pmd filemap.c, oops; 2.4.30 and 2.4.32

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-01/msg02926.html>

- *From:* Willy Tarreau <willy@xxxxxxxxxx>
 - *Date:* Sun, 8 Jan 2006 10:45:08 +0100
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Hi Chris,

On Fri, Jan 06, 2006 at 01:54:45PM -0800, Chris Stromsoe wrote:

> On Thu, 5 Jan 2006, Willy Tarreau wrote:

>> On Wed, Jan 04, 2006 at 07:52:36PM -0800, Chris Stromsoe wrote:

>>>

>>> I booted 2.4.32 with the `aic7xxx` patch you pointed me at last week.

>>> It's been up for a few hours. I'll let it run for at least a week or

>>> two and will report back positive or negative results. After that,

>>> I'll try 2.4.32 with `nosmp` and `acpi=off`.

>>>

>>> Thanks for your continued feedback, Chris. Your reports are very

>>> helpful, they tend to prove that your hardware is OK and that there's a

>>> bug in mainline 2.4.32 with `SMP+ACPI+aic7xxx` enabled. That's already a

>>> good piece of information.

>>>

>>> After a little more than one day up with 2.4.32 `SMP+ACP+aic7xxx`, I got

>>> another bad pmd and an oops this morning at 4:23am. I'm going to boot

>>> vanilla 2.4.32 with `nosmp` and `acpi=off`.

Well, I'm puzzled. On the one hand, your oopses don't all look the same, so we could think it's a hardware problem. On the other hand, your hardware tests did not find anything and 2.6.14 runs fine. BTW, I also have other machines running in production with an adaptec 29160 like yours and I don't encounter this. It looks like some memory corruption, but finding what causes it seems very hard. In fact, it somewhat reminds me the problems encountered by Stephan von Krawczynski 2.5 years ago. He encountered data corruption when saving large amounts of data to a DLT connected to an AIC7xxx, and often had freezes, and sometimes an oops. IIRC, changing the board for something else fixed his problem.

I've compared the driver between 2.4 and 2.6, and the core has not changed much, but its interface to the OS has changed a lot, so it's not easy to identify a potential fix.

Eventhough I don't like this, I would join Roberto's advice to upgrade to 2.6 and stick to it. If you finally encounter the same problem on 2.6 after a very long time, then it would be

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an indication that the problem is well in your hardware.

> -Chris

Thanks for all your investigations,
Willy

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- *Follow-Ups:*

- ◆ **[Re: bad pmd filemap.c, oops; 2.4.30 and 2.4.32](#)**
◇ From: Chris Stromsoe

- *References:*

- ◆ **[Re: bad pmd filemap.c, oops; 2.4.30 and 2.4.32](#)**
◇ From: Chris Stromsoe
- ◆ **[Re: bad pmd filemap.c, oops; 2.4.30 and 2.4.32](#)**
◇ From: Willy Tarreau
- ◆ **[Re: bad pmd filemap.c, oops; 2.4.30 and 2.4.32](#)**
◇ From: Chris Stromsoe

- Prev by Date: **[Re: \[WI\]: Remove incorrect MODULE ALIAS](#)**
- Next by Date: **[Re: PowerPC fastpaths for mutex subsystem](#)**
- Previous by thread: **[Re: bad pmd filemap.c, oops; 2.4.30 and 2.4.32](#)**
- Next by thread: **[Re: bad pmd filemap.c, oops; 2.4.30 and 2.4.32](#)**
- Index(es):
 - ◆ **[Date](#)**
 - ◆ **[Thread](#)**