

Re: Bug: 2.6.24-smp: Eeek! page_mapcount(page) went negative! (-1)

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Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-02/msg02704.html>

- *From:* kerndev@xxxxxxxxxxxxxxxx
 - *Date:* Wed, 6 Feb 2008 12:21:44 -0800 (PST)
-

On Wed, 6 Feb 2008, Hugh Dickins wrote:

Date: Wed, 6 Feb 2008 19:55:36 +0000 (GMT)
From: Hugh Dickins <hugh@xxxxxxxxxxxx>
To: John Heil <kerndev@xxxxxxxxxxxxxxxx>
Cc: linux-kernel@xxxxxxxxxxxxxxxx
Subject: Re: Bug: 2.6.24-smp: Eeek! page_mapcount(page) went negative! (-1)

On Wed, 6 Feb 2008, kerndev@xxxxxxxxxxxxxxxx wrote:

Before digging into this myself (don't really have enough time),
I thought I'd submit it here...

Thanks for the report.

Feb 6 09:09:47 sc-software kernel: Eeek! page_mapcount(page) went
negative!

These very often turn out to be due to bad RAM or some such:
worth running memtest86+ overnight when you can, though its
success wouldn't be conclusive.

(-1)
Feb 6 09:09:47 sc-software kernel: page pfn = 12b1b1
Feb 6 09:09:47 sc-software kernel: page->flags = 80080014
Feb 6 09:09:47 sc-software kernel: page->count = 0

That's a free page which shouldn't have appeared in the pagetable.
It could be that there's a bit error somewhere in that pfn of 12b1b1.

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Feb 6 09:09:47 sc-software kernel: page->mapping = 00000000
Feb 6 09:09:47 sc-software kernel: vma->vm_ops = 0x0
Feb 6 09:09:47 sc-software kernel: -----[ cut here
]-----
Feb 6 09:09:47 sc-software kernel: kernel BUG at mm/rmap.c:631!
Feb 6 09:09:47 sc-software kernel: invalid opcode: 0000 [#2] PREEMPT
SMP
Feb 6 09:09:47 sc-software kernel: Modules linked in: shpchp pci_hotplug
ohci1394 ieee1394
Feb 6 09:09:47 sc-software kernel:
Feb 6 09:09:47 sc-software kernel: Pid: 3710, comm: X Tainted: G D
```

But that [#2] and that D taint both say there was already a problem before this: anything showing in the log for that?

Hugh

From reboot after last hang on 02/03/08, I found this...

```
Feb 5 23:26:26 sc-software kernel: -----[ cut here ]-----
Feb 5 23:26:26 sc-software kernel: kernel BUG at mm/slab.c:591!
Feb 5 23:26:26 sc-software kernel: invalid opcode: 0000 [#1] PREEMPT SMP
Feb 5 23:26:26 sc-software kernel: Modules linked in: shpchp pci_hotplug ohci1394 ieee1394
Feb 5 23:26:26 sc-software kernel:
Feb 5 23:26:26 sc-software kernel: Pid: 6040, comm: modprobe Not tainted (2.6.24 #1)
Feb 5 23:26:26 sc-software kernel: EIP: 0060:[<c017960f>] EFLAGS: 00010046 CPU: 1
Feb 5 23:26:26 sc-software kernel: EIP is at kfree+0x8f/0xa0
Feb 5 23:26:26 sc-software kernel: EAX: 40000000 EBX: f5915380 ECX: c1bb4498 EDX: c1bb4498
Feb 5 23:26:26 sc-software kernel: ESI: eff354a0 EDI: f5815280 EBP: f0067e78 ESP: f0067e68
Feb 5 23:26:26 sc-software kernel: DS: 007b ES: 007b FS: 00d8 GS: 0000 SS: 0068
Feb 5 23:26:26 sc-software kernel: Process modprobe (pid: 6040, ti=f0066000 task=f00b5550
task.ti=f0066000)
Feb 5 23:26:26 sc-software kernel: Stack: 00000282 f5915380 eff354a0 b7fb87b0 f0067f1c c01ac9ac
00000003 00001812
Feb 5 23:26:26 sc-software kernel: f0067e98 0805ba64 00000418 0805ba64 f0067eb4 0805ba64 00001812
00000000
Feb 5 23:26:26 sc-software kernel: f5815280 00000001 00000000 0805be7c 0805ba64 0805aa64 08048000
00000000
Feb 5 23:26:26 sc-software kernel: Call Trace:
Feb 5 23:26:26 sc-software kernel: [<c0103e5a>] show_trace_log_lvl+0x1a/0x30
Feb 5 23:26:26 sc-software kernel: [<c0103f2a>] show_stack_log_lvl+0x9a/0xc0
Feb 5 23:26:26 sc-software kernel: [<c01040d7>] show_registers+0xc7/0x250
Feb 5 23:26:26 sc-software kernel: [<c010441f>] die+0x11f/0x220
Feb 5 23:26:26 sc-software kernel: [<c01045b1>] do_trap+0x91/0xd0
Feb 5 23:26:26 sc-software kernel: [<c0104859>] do_invalid_op+0x89/0xa0
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Feb 5 23:26:26 sc-software kernel: [<c0657c22>] error_code+0x72/0x78
Feb 5 23:26:26 sc-software kernel: [<c01ac9ac>] load_elf_binary+0x8cc/0xcf0
Feb 5 23:26:26 sc-software kernel: [<c0181864>] search_binary_handler+0xc4/0x250
Feb 5 23:26:26 sc-software kernel: [<c0181b35>] do_execve+0x145/0x190
Feb 5 23:26:26 sc-software kernel: [<c0101c82>] sys_execve+0x32/0xa0
Feb 5 23:26:26 sc-software kernel: [<c0103102>] syscall_call+0x7/0xb
Feb 5 23:26:26 sc-software kernel: =====
Feb 5 23:26:26 sc-software kernel: Code: 47 1d 00 8b 1c 86 8b 03 3b 43 04 73 11 89 7c 83 30 40 89 03 ff 75
f0 9d 58 5b 5e 5f 5d c3 89 f0 89 da e8 65 fc ff ff 8b 03 eb e2 <0f> 0b eb fe 8b 51 0c eb b7 8b 4a 0c
eb a2 8d 76 00 55 89 e5 5d
Feb 5 23:26:26 sc-software kernel: EIP: [<c017960f>] kfree+0x8f/0xa0 SS:ESP 0068:f0067e68
Feb 5 23:26:26 sc-software kernel: ----[ end trace 791c1b0a2eb87d50 ]----
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