

[Bug 2219] New: kernel BUG at mm/rmap.c:306

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-02/7653.html>

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To: linux-kernel <linux-kernel@vger.kernel.org>, linux-mm mailing list <linux-mm@kvack.org>

http://bugme.osdl.org/show_bug.cgi?id=2219

Summary: kernel BUG at mm/rmap.c:306

Kernel Version: 2.6.3

Status: NEW

Severity: high

Owner: akpm@digeo.com

Submitter: castetm@ensimag.imag.fr

Distribution: gentoo

Hardware Environment: pentium-3/512 Mo RAM

I have try overcommit-accounting with strict overcommit, but when i launch a program like [1], there was a kernel bug [2]

[1]

```
int main()
{
    while(fork() != -1) {}
    while(malloc(1024)) {}
    while(1) {}
}
```

[2]

Out of Memory: Killed process 8289 (a.out).

Out of Memory: Killed process 8297 (a.out).

swap_free: Bad swap offset entry 001c2790

-----[cut here]-----

kernel BUG at mm/rmap.c:306!

invalid operand: 0000 [#1]

CPU: 0

EIP: 0060:[<c014baf0>] Not tainted

EFLAGS: 00010246

EIP is at try_to_unmap_one+0x1e0/0x1f0

eax: 00000000 ebx: 000c0000 ecx: 00000009 edx: c1000000

esi: c14662e8 edi: df55e300 ebp: c14662e8 esp: dfa99d48

ds: 007b es: 007b ss: 0068

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Process kswapd0 (pid: 8, threadinfo=dfa98000 task=dfa9eca0)

Stack: df55e300 00000009 1c279005 00000000 00000000 00000004 c14662e8 da675ac0
00000000 c014bbab d4a5d440 00000004 00000000 da675ac0 00000000 c14662e8
00000001 dfa98000 c0142554 c1416c20 dfa99db8 c036a6f4 dfa98000 00000028

Call Trace:

[<c014bbab>] try_to_unmap+0xab/0x160
[<c0142554>] shrink_list+0x224/0x560
[<c0142a30>] shrink_cache+0x1a0/0x320
[<c0143243>] shrink_zone+0x83/0xb0
[<c014365a>] balance_pgdat+0x19a/0x220
[<c01437f5>] kswapd+0x115/0x130
[<c011d7e0>] autoremove_wake_function+0x0/0x50
[<c0109302>] ret_from_fork+0x6/0x14
[<c011d7e0>] autoremove_wake_function+0x0/0x50
[<c01436e0>] kswapd+0x0/0x130
[<c01072a5>] kernel_thread_helper+0x5/0x10

Code: 0f 0b 32 01 13 c0 32 c0 e9 78 fe ff ff 8d 76 00 55 57 56 89

<6>note: kswapd0[8] exited with preempt_count 2

Out of Memory: Killed process 12353 (a.out).

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