

## vanilla-2.6.9: Problems with oom-killer again

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-10/10304.html>

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**Date:** 10/31/04

Date: Sun, 31 Oct 2004 16:26:28 +0100  
To: [linux-kernel@vger.kernel.org](mailto:linux-kernel@vger.kernel.org)

Hello!

Last night, several applications have been killed by the kernel, something I'm now having for the first time. I know, this problem has been discussed before, but I couldn't find an answer, yet. Sorry for asking the same, again. I can give you the following information, if you anything else, please contact me, I'll deliver soon.

System configuration:

MSI K7 Pro  
164 MB RAM (3 sticks from different firms)  
Athlon 650 Mhz CPU  
2 swap partitions: /dev/hda5 with approx. 200MB  
                  /dev/hde1 with approx. 250MB  
vanilla-2.6.9 (configuration can be obtained from me on a request)

now real load on the system at this time, only a virusscan running. Those problems didn't occur on a vanilla-2.6.7

The following was written into the .log:

```
root@linux:/var/log > less messages
Oct 31 05:51:48 linux antivir[4523]: AntiVir WARNING:
/export/MP3/mldonkey/temp/6C6AABC2AB6E08188EE42DC5CF4E7D46 not
complet
Oct 31 05:55:52 linux kernel: oom-killer: gfp_mask=0xd2
Oct 31 05:56:22 linux kernel: DMA per-cpu:
Oct 31 05:56:22 linux kernel: cpu 0 hot: low 2, high 6, batch 1
Oct 31 05:56:22 linux kernel: cpu 0 cold: low 0, high 2, batch 1
Oct 31 05:56:22 linux kernel: Normal per-cpu:
Oct 31 05:56:22 linux kernel: cpu 0 hot: low 16, high 48, batch 8
Oct 31 05:56:22 linux kernel: cpu 0 cold: low 0, high 16, batch 8
Oct 31 05:56:22 linux kernel: HighMem per-cpu: empty
Oct 31 05:56:22 linux kernel:
Oct 31 05:56:22 linux kernel: Free pages: 536kB (0kB HighMem)
```

## Linux-Kernel: vanilla-2.6.9: Problems with oom-killer again

Oct 31 05:56:22 linux kernel: Active:34523 inactive:801 dirty:13 writeback:1 unstable:0 free:134 slab:2467 mapped:34283  
paget  
Oct 31 05:56:22 linux kernel: DMA free:80kB min:40kB low:80kB high:120kB active:10648kB inactive:164kB present:16384kB  
Oct 31 05:56:22 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:24 linux kernel: Normal free:456kB min:360kB low:720kB high:1080kB active:127444kB inactive:3040kB present:14739  
Oct 31 05:56:24 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:24 linux kernel: HighMem free:0kB min:128kB low:256kB high:384kB active:0kB inactive:0kB present:0kB  
Oct 31 05:56:24 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:24 linux kernel: DMA: 8\*4kB 2\*8kB 0\*16kB 1\*32kB 0\*64kB 0\*128kB 0\*256kB 0\*512kB 0\*1024kB 0\*2048kB 0\*4096kB = 80kB  
Oct 31 05:56:24 linux kernel: Normal: 4\*4kB 11\*8kB 0\*16kB 1\*32kB 1\*64kB 0\*128kB 1\*256kB 0\*512kB 0\*1024kB 0\*2048kB 0\*4096kB =  
Oct 31 05:56:24 linux kernel: HighMem: empty  
Oct 31 05:56:24 linux kernel: Swap cache: add 620095, delete 605069, find 148168/211121, race 2+8  
Oct 31 05:56:24 linux kernel: Out of Memory: Killed process 4846 (mysqld).  
Oct 31 05:56:24 linux kernel: Out of Memory: Killed process 4848 (mysqld).  
Oct 31 05:56:24 linux kernel: Out of Memory: Killed process 4849 (mysqld).  
Oct 31 05:56:24 linux kernel: Out of Memory: Killed process 4850 (mysqld).  
Oct 31 05:56:24 linux kernel: Out of Memory: Killed process 4851 (mysqld).  
Oct 31 05:56:24 linux kernel: Out of Memory: Killed process 4852 (mysqld).  
Oct 31 05:56:24 linux kernel: Out of Memory: Killed process 4853 (mysqld).  
Oct 31 05:56:24 linux kernel: Out of Memory: Killed process 4854 (mysqld).  
Oct 31 05:56:24 linux kernel: Out of Memory: Killed process 4855 (mysqld).  
Oct 31 05:56:24 linux kernel: Out of Memory: Killed process 4856 (mysqld).  
Oct 31 05:56:24 linux kernel: oom-killer: gfp\_mask=0xd2  
Oct 31 05:56:24 linux kernel: DMA per-cpu:  
Oct 31 05:56:24 linux kernel: cpu 0 hot: low 2, high 6, batch 1  
Oct 31 05:56:24 linux kernel: cpu 0 cold: low 0, high 2, batch 1  
Oct 31 05:56:24 linux kernel: Normal per-cpu:  
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 16, high 48, batch 8  
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 16, batch 8  
Oct 31 05:56:25 linux kernel: HighMem per-cpu: empty  
Oct 31 05:56:25 linux kernel:  
Oct 31 05:56:25 linux kernel: Free pages: 760kB (0kB HighMem)  
Oct 31 05:56:25 linux kernel: Active:27579 inactive:7647 dirty:0 writeback:0 unstable:0 free:190 slab:2464 mapped:34239  
paget  
Oct 31 05:56:25 linux kernel: DMA free:80kB min:40kB low:80kB high:120kB active:8136kB inactive:2696kB present:16384kB  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: Normal free:680kB min:360kB low:720kB high:1080kB active:102180kB inactive:27892kB present:1473  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: HighMem free:0kB min:128kB low:256kB high:384kB active:0kB

## Linux-Kernel: vanilla-2.6.9: Problems with oom-killer again

inactive:0kB present:0kB  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: DMA: 8\*4kB 2\*8kB 0\*16kB 1\*32kB 0\*64kB 0\*128kB 0\*256kB 0\*512kB  
0\*1024kB 0\*2048kB 0\*4096kB =  
80kB  
Oct 31 05:56:25 linux kernel: Normal: 58\*4kB 12\*8kB 0\*16kB 1\*32kB 1\*64kB 0\*128kB 1\*256kB 0\*512kB  
0\*1024kB 0\*2048kB 0\*4096kB  
Oct 31 05:56:25 linux kernel: HighMem: empty  
Oct 31 05:56:25 linux kernel: Swap cache: add 623595, delete 608251, find 148695/212212, race 2+8  
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 4523 (antivir).  
Oct 31 05:56:25 linux kernel: oom-killer: gfp\_mask=0x1d2  
Oct 31 05:56:25 linux kernel: DMA per-cpu:  
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 2, high 6, batch 1  
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 2, batch 1  
Oct 31 05:56:25 linux kernel: Normal per-cpu:  
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 16, high 48, batch 8  
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 16, batch 8  
Oct 31 05:56:25 linux kernel: HighMem per-cpu: empty  
Oct 31 05:56:25 linux kernel:  
Oct 31 05:56:25 linux kernel: Free pages: 656kB (0kB HighMem)  
Oct 31 05:56:25 linux kernel: Active:35091 inactive:20 dirty:0 writeback:0 unstable:0 free:164 slab:2462  
mapped:34329  
pagetab  
Oct 31 05:56:25 linux kernel: DMA free:40kB min:40kB low:80kB high:120kB active:10572kB  
inactive:68kB present:16384kB  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: Normal free:616kB min:360kB low:720kB high:1080kB active:129792kB  
inactive:12kB  
present:147392k  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: HighMem free:0kB min:128kB low:256kB high:384kB active:0kB  
inactive:0kB present:0kB  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: DMA: 0\*4kB 1\*8kB 0\*16kB 1\*32kB 0\*64kB 0\*128kB 0\*256kB 0\*512kB  
0\*1024kB 0\*2048kB 0\*4096kB =  
40kB  
Oct 31 05:56:25 linux kernel: Normal: 70\*4kB 8\*8kB 1\*16kB 2\*32kB 1\*64kB 1\*128kB 0\*256kB 0\*512kB  
0\*1024kB 0\*2048kB 0\*4096kB =  
Oct 31 05:56:25 linux kernel: HighMem: empty  
Oct 31 05:56:25 linux kernel: Swap cache: add 625072, delete 609586, find 148887/212674, race 2+8  
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3044 (nscd).  
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3046 (nscd).  
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3047 (nscd).  
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3048 (nscd).  
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3049 (nscd).  
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3050 (nscd).  
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3051 (nscd).  
Oct 31 05:56:25 linux kernel: oom-killer: gfp\_mask=0x1d2  
Oct 31 05:56:25 linux kernel: DMA per-cpu:  
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 2, high 6, batch 1  
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 2, batch 1

## Linux-Kernel: vanilla-2.6.9: Problems with oom-killer again

```
Oct 31 05:56:25 linux kernel: Normal per-cpu:
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 16, high 48, batch 8
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 16, batch 8
Oct 31 05:56:25 linux kernel: HighMem per-cpu: empty
Oct 31 05:56:25 linux kernel:
Oct 31 05:56:25 linux kernel: Free pages: 504kB (0kB HighMem)
Oct 31 05:56:25 linux kernel: Active:34635 inactive:560 dirty:8 writeback:0 unstable:0 free:126 slab:2460
mapped:34368
pageta
Oct 31 05:56:25 linux kernel: DMA free:48kB min:40kB low:80kB high:120kB active:10576kB
inactive:116kB present:16384kB
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
Oct 31 05:56:25 linux kernel: Normal free:456kB min:360kB low:720kB high:1080kB active:127964kB
inactive:2124kB
present:14739
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
Oct 31 05:56:25 linux kernel: HighMem free:0kB min:128kB low:256kB high:384kB active:0kB
inactive:0kB present:0kB
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
Oct 31 05:56:25 linux kernel: DMA: 2*4kB 1*8kB 0*16kB 1*32kB 0*64kB 0*128kB 0*256kB 0*512kB
0*1024kB 0*2048kB 0*4096kB =
48kB
Oct 31 05:56:25 linux kernel: Normal: 26*4kB 6*8kB 1*16kB 3*32kB 1*64kB 1*128kB 0*256kB 0*512kB
0*1024kB 0*2048kB 0*4096kB =
Oct 31 05:56:25 linux kernel: HighMem: empty
Oct 31 05:56:25 linux kernel: Swap cache: add 626012, delete 610481, find 148921/212935, race 2+9
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 4891 (pickup).
Oct 31 05:56:25 linux kernel: oom-killer: gfp_mask=0x1d2
Oct 31 05:56:25 linux kernel: DMA per-cpu:
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 2, high 6, batch 1
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 2, batch 1
Oct 31 05:56:25 linux kernel: Normal per-cpu:
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 16, high 48, batch 8
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 16, batch 8
Oct 31 05:56:25 linux kernel: HighMem per-cpu: empty
Oct 31 05:56:25 linux kernel:
Oct 31 05:56:25 linux kernel: Free pages: 476kB (0kB HighMem)
Oct 31 05:56:25 linux kernel: Active:34493 inactive:771 dirty:0 writeback:0 unstable:0 free:119 slab:2457
mapped:34406
pageta
Oct 31 05:56:25 linux kernel: DMA free:52kB min:40kB low:80kB high:120kB active:10584kB
inactive:196kB present:16384kB
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
Oct 31 05:56:25 linux kernel: Normal free:424kB min:360kB low:720kB high:1080kB active:127388kB
inactive:2888kB
present:14739
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
Oct 31 05:56:25 linux kernel: HighMem free:0kB min:128kB low:256kB high:384kB active:0kB
inactive:0kB present:0kB
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
Oct 31 05:56:25 linux kernel: DMA: 3*4kB 1*8kB 0*16kB 1*32kB 0*64kB 0*128kB 0*256kB 0*512kB
```

## Linux-Kernel: vanilla-2.6.9: Problems with oom-killer again

```
0*1024kB 0*2048kB 0*4096kB =
52kB
Oct 31 05:56:25 linux kernel: Normal: 30*4kB 2*8kB 0*16kB 3*32kB 1*64kB 1*128kB 0*256kB 0*512kB
0*1024kB 0*2048kB 0*4096kB =
Oct 31 05:56:25 linux kernel: HighMem: empty
Oct 31 05:56:25 linux kernel: Swap cache: add 626596, delete 611037, find 148947/213117, race 2+9
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3158 (c2faxrecv).
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3189 (c2faxrecv).
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3190 (c2faxrecv).
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3191 (c2faxrecv).
Oct 31 05:56:25 linux kernel: oom-killer: gfp_mask=0x1d2
Oct 31 05:56:25 linux kernel: DMA per-cpu:
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 2, high 6, batch 1
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 2, batch 1
Oct 31 05:56:25 linux kernel: Normal per-cpu:
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 16, high 48, batch 8
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 16, batch 8
Oct 31 05:56:25 linux kernel: HighMem per-cpu: empty
Oct 31 05:56:25 linux kernel:
Oct 31 05:56:25 linux kernel: Free pages: 400kB (0kB HighMem)
Oct 31 05:56:25 linux kernel: Active:34573 inactive:736 dirty:0 writeback:0 unstable:0 free:100 slab:2450
mapped:34497
pageta
Oct 31 05:56:25 linux kernel: DMA free:40kB min:40kB low:80kB high:120kB active:10664kB inactive:0kB
present:16384kB
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
Oct 31 05:56:25 linux kernel: Normal free:360kB min:360kB low:720kB high:1080kB active:127628kB
inactive:2944kB
present:14739
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
Oct 31 05:56:25 linux kernel: HighMem free:0kB min:128kB low:256kB high:384kB active:0kB
inactive:0kB present:0kB
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
Oct 31 05:56:25 linux kernel: DMA: 0*4kB 1*8kB 0*16kB 1*32kB 0*64kB 0*128kB 0*256kB 0*512kB
0*1024kB 0*2048kB 0*4096kB =
40kB
Oct 31 05:56:25 linux kernel: Normal: 22*4kB 6*8kB 0*16kB 1*32kB 1*64kB 1*128kB 0*256kB 0*512kB
0*1024kB 0*2048kB 0*4096kB =
Oct 31 05:56:25 linux kernel: HighMem: empty
Oct 31 05:56:25 linux kernel: Swap cache: add 626933, delete 611280, find 149017/213284, race 2+9
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 2585 (qmgr).
Oct 31 05:56:25 linux kernel: oom-killer: gfp_mask=0x1d2
Oct 31 05:56:25 linux kernel: DMA per-cpu:
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 2, high 6, batch 1
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 2, batch 1
Oct 31 05:56:25 linux kernel: Normal per-cpu:
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 16, high 48, batch 8
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 16, batch 8
Oct 31 05:56:25 linux kernel: HighMem per-cpu: empty
Oct 31 05:56:25 linux kernel:
Oct 31 05:56:25 linux kernel: Free pages: 272kB (0kB HighMem)
```

## Linux–Kernel: vanilla–2.6.9: Problems with oom–killer again

Oct 31 05:56:25 linux kernel: Active:34565 inactive:779 dirty:0 writeback:0 unstable:0 free:68 slab:2443 mapped:34533  
pagetab  
Oct 31 05:56:25 linux kernel: DMA free:40kB min:40kB low:80kB high:120kB active:10600kB inactive:64kB present:16384kB  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: Normal free:232kB min:360kB low:720kB high:1080kB active:127660kB inactive:3052kB present:14739  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: HighMem free:0kB min:128kB low:256kB high:384kB active:0kB inactive:0kB present:0kB  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: DMA: 0\*4kB 1\*8kB 0\*16kB 1\*32kB 0\*64kB 0\*128kB 0\*256kB 0\*512kB 0\*1024kB 0\*2048kB 0\*4096kB = 40kB  
Oct 31 05:56:25 linux kernel: Normal: 4\*4kB 9\*8kB 1\*16kB 0\*32kB 0\*64kB 1\*128kB 0\*256kB 0\*512kB 0\*1024kB 0\*2048kB 0\*4096kB =  
Oct 31 05:56:25 linux kernel: HighMem: empty  
Oct 31 05:56:25 linux kernel: Swap cache: add 627044, delete 611356, find 149037/213319, race 2+9  
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 3471 (smbd).  
Oct 31 05:56:25 linux kernel: oom–killer: gfp\_mask=0x1d2  
Oct 31 05:56:25 linux kernel: DMA per–cpu:  
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 2, high 6, batch 1  
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 2, batch 1  
Oct 31 05:56:25 linux kernel: Normal per–cpu:  
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 16, high 48, batch 8  
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 16, batch 8  
Oct 31 05:56:25 linux kernel: HighMem per–cpu: empty  
Oct 31 05:56:25 linux kernel:  
Oct 31 05:56:25 linux kernel: Free pages: 192kB (0kB HighMem)  
Oct 31 05:56:25 linux kernel: Active:34638 inactive:765 dirty:0 writeback:0 unstable:0 free:48 slab:2438 mapped:34558  
pagetab  
Oct 31 05:56:25 linux kernel: DMA free:32kB min:40kB low:80kB high:120kB active:10664kB inactive:0kB present:16384kB  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: Normal free:160kB min:360kB low:720kB high:1080kB active:127888kB inactive:3060kB present:14739  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: HighMem free:0kB min:128kB low:256kB high:384kB active:0kB inactive:0kB present:0kB  
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0  
Oct 31 05:56:25 linux kernel: DMA: 0\*4kB 0\*8kB 0\*16kB 1\*32kB 0\*64kB 0\*128kB 0\*256kB 0\*512kB 0\*1024kB 0\*2048kB 0\*4096kB = 32kB  
Oct 31 05:56:25 linux kernel: Normal: 8\*4kB 10\*8kB 1\*16kB 1\*32kB 0\*64kB 0\*128kB 0\*256kB 0\*512kB 0\*1024kB 0\*2048kB 0\*4096kB =  
Oct 31 05:56:25 linux kernel: HighMem: empty  
Oct 31 05:56:25 linux kernel: Swap cache: add 627228, delete 611513, find 149048/213360, race 2+9

## Linux-Kernel: vanilla-2.6.9: Problems with oom-killer again

```
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 1502 (httpd).
Oct 31 05:56:25 linux kernel: httpd: page allocation failure. order:0, mode:0x1d2
Oct 31 05:56:25 linux kernel: [__alloc_pages+745/784] __alloc_pages+0x2e9/0x310
Oct 31 05:56:25 linux kernel: [do_page_cache_readahead+182/304] do_page_cache_readahead+0xb6/0x130
Oct 31 05:56:25 linux kernel: [filemap_nopage+302/816] filemap_nopage+0x12e/0x330
Oct 31 05:56:25 linux kernel: [do_no_page+153/720] do_no_page+0x99/0x2d0
Oct 31 05:56:25 linux kernel: [handle_mm_fault+106/256] handle_mm_fault+0x6a/0x100
Oct 31 05:56:25 linux kernel: [do_page_fault+423/1312] do_page_fault+0x1a7/0x520
Oct 31 05:56:25 linux kernel: [do_page_fault+0/1312] do_page_fault+0x0/0x520
Oct 31 05:56:25 linux kernel: [pipe_read+41/48] pipe_read+0x29/0x30
Oct 31 05:56:25 linux kernel: [copy_from_user+48/96] copy_from_user+0x30/0x60
Oct 31 05:56:25 linux kernel: [sys_socketcall+179/512] sys_socketcall+0xb3/0x200
Oct 31 05:56:25 linux kernel: [do_notify_resume+45/64] do_notify_resume+0x2d/0x40
Oct 31 05:56:25 linux kernel: [error_code+45/56] error_code+0x2d/0x38
Oct 31 05:56:25 linux kernel: httpd: page allocation failure. order:0, mode:0x1d2
Oct 31 05:56:25 linux kernel: [__alloc_pages+745/784] __alloc_pages+0x2e9/0x310
Oct 31 05:56:25 linux kernel: [schedule+953/992] schedule+0x3b9/0x3e0
Oct 31 05:56:25 linux kernel: [do_page_cache_readahead+182/304] do_page_cache_readahead+0xb6/0x130
Oct 31 05:56:25 linux kernel: [filemap_nopage+302/816] filemap_nopage+0x12e/0x330
Oct 31 05:56:25 linux kernel: [do_no_page+153/720] do_no_page+0x99/0x2d0
Oct 31 05:56:25 linux kernel: [handle_mm_fault+106/256] handle_mm_fault+0x6a/0x100
Oct 31 05:56:25 linux kernel: [do_page_fault+423/1312] do_page_fault+0x1a7/0x520
Oct 31 05:56:25 linux kernel: [do_page_fault+0/1312] do_page_fault+0x0/0x520
Oct 31 05:56:25 linux kernel: [pipe_read+41/48] pipe_read+0x29/0x30
Oct 31 05:56:25 linux kernel: [copy_from_user+48/96] copy_from_user+0x30/0x60
Oct 31 05:56:25 linux kernel: [sys_socketcall+179/512] sys_socketcall+0xb3/0x200
Oct 31 05:56:25 linux kernel: [do_notify_resume+45/64] do_notify_resume+0x2d/0x40
Oct 31 05:56:25 linux kernel: [error_code+45/56] error_code+0x2d/0x38
Oct 31 05:56:25 linux kernel: oom-killer: gfp_mask=0xd2
Oct 31 05:56:25 linux kernel: DMA per-cpu:
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 2, high 6, batch 1
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 2, batch 1
Oct 31 05:56:25 linux kernel: Normal per-cpu:
Oct 31 05:56:25 linux kernel: cpu 0 hot: low 16, high 48, batch 8
Oct 31 05:56:25 linux kernel: cpu 0 cold: low 0, high 16, batch 8
Oct 31 05:56:25 linux kernel: HighMem per-cpu: empty
Oct 31 05:56:25 linux kernel:
Oct 31 05:56:25 linux kernel: Free pages: 164kB (0kB HighMem)
Oct 31 05:56:25 linux kernel: Active:34874 inactive:570 dirty:0 writeback:0 unstable:0 free:41 slab:2437
mapped:34566
pagetab
Oct 31 05:56:25 linux kernel: DMA free:36kB min:40kB low:80kB high:120kB active:10600kB
inactive:188kB present:16384kB
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
Oct 31 05:56:25 linux kernel: Normal free:128kB min:360kB low:720kB high:1080kB active:128896kB
inactive:2092kB
present:14739
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
Oct 31 05:56:25 linux kernel: HighMem free:0kB min:128kB low:256kB high:384kB active:0kB
inactive:0kB present:0kB
Oct 31 05:56:25 linux kernel: protections[]: 0 0 0
```

## Linux-Kernel: vanilla-2.6.9: Problems with oom-killer again

```
Oct 31 05:56:25 linux kernel: DMA: 1*4kB 0*8kB 0*16kB 1*32kB 0*64kB 0*128kB 0*256kB 0*512kB
0*1024kB 0*2048kB 0*4096kB =
36kB
Oct 31 05:56:25 linux kernel: Normal: 18*4kB 7*8kB 0*16kB 0*32kB 0*64kB 0*128kB 0*256kB 0*512kB
0*1024kB 0*2048kB 0*4096kB =
Oct 31 05:56:25 linux kernel: HighMem: empty
Oct 31 05:56:25 linux kernel: Swap cache: add 627380, delete 611657, find 149048/213388, race 2+9
Oct 31 05:56:25 linux kernel: Out of Memory: Killed process 1503 (httpd).
Oct 31 05:56:25 linux kernel: httpd: page allocation failure. order:0, mode:0x1d2
Oct 31 05:56:25 linux kernel: [__alloc_pages+745/784] __alloc_pages+0x2e9/0x310
Oct 31 05:56:25 linux kernel: [do_page_cache_readahead+182/304] do_page_cache_readahead+0xb6/0x130
Oct 31 05:56:25 linux kernel: [filemap_nopage+302/816] filemap_nopage+0x12e/0x330
Oct 31 05:56:25 linux kernel: [do_no_page+153/720] do_no_page+0x99/0x2d0
Oct 31 05:56:25 linux kernel: [handle_mm_fault+106/256] handle_mm_fault+0x6a/0x100
Oct 31 05:56:25 linux kernel: [do_page_fault+423/1312] do_page_fault+0x1a7/0x520
Oct 31 05:56:25 linux kernel: [do_page_fault+0/1312] do_page_fault+0x0/0x520
Oct 31 05:56:25 linux kernel: [do_brk+343/528] do_brk+0x157/0x210
Oct 31 05:56:25 linux kernel: [copy_from_user+48/96] copy_from_user+0x30/0x60
Oct 31 05:56:25 linux kernel: [sys_socketcall+179/512] sys_socketcall+0xb3/0x200
Oct 31 05:56:25 linux kernel: [do_notify_resume+45/64] do_notify_resume+0x2d/0x40
Oct 31 05:56:25 linux kernel: [error_code+45/56] error_code+0x2d/0x38
Oct 31 05:56:25 linux kernel: antivir: page allocation failure. order:0, mode:0xd2
Oct 31 05:56:25 linux kernel: [__alloc_pages+745/784] __alloc_pages+0x2e9/0x310
Oct 31 05:56:25 linux kernel: [generic_file_buffered_write+323/1424]
generic_file_buffered_write+0x143/0x590
Oct 31 05:56:25 linux kernel: [generic_file_aio_write_nolock+932/992]
generic_file_aio_write_nolock+0x3a4/0x3e0
Oct 31 05:56:25 linux kernel: [generic_file_write_nolock+159/192] generic_file_write_nolock+0x9f/0xc0
Oct 31 05:56:25 linux kernel: [do_mmap_pgoff+976/1696] do_mmap_pgoff+0x3d0/0x6a0
Oct 31 05:56:25 linux kernel: [do_mmap_pgoff+1559/1696] do_mmap_pgoff+0x617/0x6a0
Oct 31 05:56:25 linux kernel: [autoremove_wake_function+0/64] autoremove_wake_function+0x0/0x40
Oct 31 05:56:25 linux kernel: [generic_file_write+70/192] generic_file_write+0x46/0xc0
Oct 31 05:56:25 linux kernel: [old_mmap+205/272] old_mmap+0xcd/0x110
Oct 31 05:56:25 linux kernel: [vfs_write+181/240] vfs_write+0xb5/0xf0
Oct 31 05:56:25 linux kernel: [sys_write+64/112] sys_write+0x40/0x70
Oct 31 05:56:25 linux kernel: [syscall_call+7/11] syscall_call+0x7/0xb
Oct 31 05:56:25 linux kernel: smbd: page allocation failure. order:0, mode:0x1d2
Oct 31 05:56:25 linux kernel: [__alloc_pages+745/784] __alloc_pages+0x2e9/0x310
Oct 31 05:56:25 linux kernel: [schedule+953/992] schedule+0x3b9/0x3e0
Oct 31 05:56:25 linux kernel: [do_page_cache_readahead+182/304] do_page_cache_readahead+0xb6/0x130
Oct 31 05:56:25 linux kernel: [filemap_nopage+302/816] filemap_nopage+0x12e/0x330
Oct 31 05:56:25 linux kernel: [do_no_page+153/720] do_no_page+0x99/0x2d0
Oct 31 05:56:25 linux kernel: [handle_mm_fault+106/256] handle_mm_fault+0x6a/0x100
Oct 31 05:56:25 linux kernel: [do_page_fault+423/1312] do_page_fault+0x1a7/0x520
Oct 31 05:56:25 linux kernel: [do_page_fault+0/1312] do_page_fault+0x0/0x520
Oct 31 05:56:25 linux kernel: [pipe_write+41/48] pipe_write+0x29/0x30
Oct 31 05:56:25 linux kernel: [vfs_write+181/240] vfs_write+0xb5/0xf0
Oct 31 05:56:25 linux kernel: [vfs_write+216/240] vfs_write+0xd8/0xf0
Oct 31 05:56:25 linux kernel: [sys_sigreturn+130/176] sys_sigreturn+0x82/0xb0
Oct 31 05:56:25 linux kernel: [error_code+45/56] error_code+0x2d/0x38
Oct 31 05:56:25 linux kernel: smbd: page allocation failure. order:0, mode:0x1d2
```

## Linux-Kernel: vanilla-2.6.9: Problems with oom-killer again

```
Oct 31 05:56:25 linux kernel: [__alloc_pages+745/784] __alloc_pages+0x2e9/0x310
Oct 31 05:56:25 linux kernel: [page_cache_read+44/224] page_cache_read+0x2c/0xe0
Oct 31 05:56:25 linux kernel: [filemap_nopage+409/816] filemap_nopage+0x199/0x330
Oct 31 05:56:25 linux kernel: [do_no_page+153/720] do_no_page+0x99/0x2d0
Oct 31 05:56:25 linux kernel: [handle_mm_fault+106/256] handle_mm_fault+0x6a/0x100
Oct 31 05:56:25 linux kernel: [do_page_fault+423/1312] do_page_fault+0x1a7/0x520
Oct 31 05:56:25 linux kernel: [do_page_fault+0/1312] do_page_fault+0x0/0x520
Oct 31 05:56:25 linux kernel: [pipe_write+41/48] pipe_write+0x29/0x30
Oct 31 05:56:25 linux kernel: [vfs_write+181/240] vfs_write+0xb5/0xf0
Oct 31 05:56:25 linux kernel: [vfs_write+216/240] vfs_write+0xd8/0xf0
Oct 31 05:56:25 linux kernel: [sys_sigreturn+130/176] sys_sigreturn+0x82/0xb0
Oct 31 05:56:25 linux kernel: [error_code+45/56] error_code+0x2d/0x38
Oct 31 05:56:25 linux kernel: VM: killing process smbd
```

```
root@debian:~ > ls -l /proc/sys/vm/
block_dump
dirty_background_ratio
dirty_expire_centisecs
dirty_ratio
dirty_writeback_centisecs
laptop_mode
legacy_va_layout
lower_zone_protection
max_map_count
min_free_kbytes
nr_pdflush_threads
overcommit_memory
overcommit_ratio
page-cluster
swappiness
vfs_cache_pressure
root@debian:~ > cat /proc/sys/vm/overcommit_memory
0
root@debian:~ >
```

Thanks for advice.

Stefan, Germany

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