Subject: Is a BUG in SUSE10 kernel?
Posted by smsprog on Wed, 12 Apr 2006 01:53:46 GMT
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Apr 11 19:20:01 virt /usr/sbin/cron[21204]: (root) CMD (/etc/sysconfig/vz-scripts/vpsnetclean)
Apr 11 19:20:01 virt /usr/sbin/cron[21206]: (root) CMD (/etc/sysconfig/vz-scripts/vpsreboot)
Apr 11 19:20:01 virt kernel: ------------[cut here]------------
Apr 11 19:20:01 virt kernel: kernel BUG at kernel/ub/ub_mem.c:329!
Apr 11 19:20:01 virt kernel: invalid opcode: 0000 [#1]
Apr 11 19:20:01 virt kernel: SMP
Apr 11 19:20:01 virt kernel: last sysfs file:
Apr 11 19:20:01 virt kernel: Modules linked in: vznetdev vzmon af_packet cpufreq_ondemand cpufreq_userspace cpufreq_powersa
ve acpi_cpufreq speedstep_lib freq_table simfs vzdquota vzdev edd xt_length ipt_ttl xt_tcpmss ipt_TCPMSS ipv6 iptable_mangl
e iptable_filter ipt_multiport xt_limit ipt_tos ipt_REJECT ip_tables x_tables button battery ac ide_cd cdrom tg3 i8xx_tco g
eneric i2c_i801 i2c_core ehci_hcd uhci_hcd usbcore shpchp pci_hotplug parport_pc lp parport aacraid dm_mod reiserfs raid1 f
an thermal processor ata_piix sg ahci libata piix sd_mod scsi_mod ide_disk ide_core
Apr 11 19:20:01 virt kernel: CPU: 1
Apr 11 19:20:01 virt kernel: EIP: 0060:[<c01372ee>]   Not tainted VLI
Apr 11 19:20:01 virt kernel: EFLAGS: 00010282   (2.6.16-026test007-15-smp #1)
Apr 11 19:20:01 virt kernel: EIP is at ub_page_charge+0x66/0x9a
Apr 11 19:20:01 virt kernel: eax: c100a4f4   ebx: 00000000   ecx: 000200d2   edx: 000200d2
Apr 11 19:20:01 virt kernel: esi: c0311728   edi: c100a4f4   ebp: 00000000   esp: cc65fe8c
Apr 11 19:20:01 virt kernel: ds: 007b   es: 007b   ss: 0068
Apr 11 19:20:01 virt kernel: Process vpsreboot (pid: 21211, veid=0, threadinfo=cc65e000 task=e870c090)
Apr 11 19:20:01 virt kernel: Stack: <0>c100a4f4 c0311728 c0311728 000200d2 c014defe 00000000 000200d2 00000010
Apr 11 19:20:01 virt kernel: e870c090 e34bfae0 0000650e c01598f9 c0db8b40 00000000 c0db8b40 c101edec
Apr 11 19:20:01 virt kernel: c101fe30 c0154061 00000001 b7ed002c cce00ad4 dec27780 00000001 c1b44800
Apr 11 19:20:01 virt kernel: Call Trace:
Apr 11 19:20:01 virt kernel: [<c014defe>] __alloc_pages+0x364/0x37e
Apr 11 19:20:01 virt kernel: [<c01598f9>] anon_vma_prepare+0x1e/0xb4
Apr 11 19:20:03 virt kernel: [<c0154061>] do_wp_page+0x118/0x302
Apr 11 19:20:03 virt kernel: [<c0155355>] __handle_mm_fault+0x932/0x985
Apr 11 19:20:03 virt kernel: [<c0133bfb>] remove_wait_queue+0xc/0x34
Apr 11 19:20:03 virt kernel: [<c02a1ffb>] do_page_fault+0x171/0x4ec
Apr 11 19:20:03 virt kernel: [<c02a1e8a>] do_page_fault+0x0/0x4ec
Apr 11 19:20:03 virt kernel: [<c0104e0f>] error_code+0x4f/0x60
Apr 11 19:20:03 virt kernel: Code: 89 d8 31 d2 e8 a2 f4 ff ff 5a 85 c0 75 2f 8b 56 10 b0 01 c1 e2 07 89 e9 d3 e0 01 84 1a 0
8 05 00 00 eb 02 31 db 83 7f 20 00 74 0b <0f> 0b 66 b8 49 01 b8 71 e3 2c c0 31 c0 89 5f 20 eb 1d 83 7f 20

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by dev on Wed, 12 Apr 2006 08:49:55 GMT
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is it reproducable on your configuration?
I will ask someone to check it.

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by dim on Wed, 12 Apr 2006 10:27:46 GMT
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Which kernel version do you use?

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by smsprog on Thu, 13 Apr 2006 01:42:23 GMT
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virt:~ # uname -a
Linux virt 2.6.16-026test007-15-smp #1 SMP Tue Apr 4 17:47:08 MSD 2006 i686 i686 i386 GNU/Linux

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by smsprog on Thu, 13 Apr 2006 01:50:09 GMT
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Afrer server rebooting all is clear. But if there are some VPSs under loading (8 in my case against Apache benchmark testing) this problem appears in dmesg.
If it is one VPS overriding allocated resourses (I check it in /proc/user_beancounters) then a very big problem appears. VPS is hang, I cannot stop it (timeout is out), I cannot stop /etc/init.d/vz - the same reason, I cannot properly reboot the server - I think the same => the whole server is hang .

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by dev on Thu, 13 Apr 2006 06:31:48 GMT
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which resource hit leads to this? any or some specific?

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by smsprog on Thu, 13 Apr 2006 07:27:53 GMT
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- kmemsize when I started Apache on basic VPS;
- privvmpages when ntpd on light VPS.

In both cases I used default configuration first. It's not valid from vzcfgvalidate view => changing it upto success validate solved the problem in first case, it seems.

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by xemul on Thu, 13 Apr 2006 07:35:24 GMT
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smsprog, can you build the kernel yoursef? If you do, I can provide you with debugging patch to clarify what's going on.

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by smsprog on Thu, 13 Apr 2006 07:37:43 GMT
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Yes, I can.

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by xemul on Thu, 13 Apr 2006 08:01:02 GMT
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OK. Patch is ready. How can I send it to you? PM, e-mail?

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by smsprog on Thu, 13 Apr 2006 08:28:49 GMT
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smsprog@xiag.ch
What is PM?

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by xemul on Thu, 13 Apr 2006 08:53:18 GMT
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PM - private message.

I've sent a patch. There may not be BUG, but "Bad page on..." message in dmesg. Don't miss it

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by smsprog on Fri, 14 Apr 2006 01:47:25 GMT
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in dmesg after >12 hours testing of 8 VPSs
...
Bad page on 0 path: c03cb680
Magic: 62756275
UB 0 is not unset
Fixing up from OOPs/BUG, but a memleak is possible<6>VPS: 101: stopped
...

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by xemul on Fri, 14 Apr 2006 07:51:48 GMT
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I've made a patch. Please, try it, but don't remove my debuggind patch.

You may see the patch here:
http://git.openvz.org/?p=linux-2.6-openvz;a=commitdiff;h=287
b9a41a85772a69ddc353afef2c448d6ed8ce3;hp=7bd802cb2daca45a6d4
90e4718f0e292e28c5285
or download a plain one here:
http://git.openvz.org/?p=linux-2.6-openvz;a=commitdiff_plain
;h=287b9a41a85772a69ddc353afef2c448d6ed8ce3;hp=7bd802cb2daca
45a6d490e4718f0e292e28c5285

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by smsprog on Tue, 18 Apr 2006 08:25:16 GMT
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There weren't any like problems in dmesg after weekends. But I got another one.
I had 8 VPS with Apache+Postgres+php site. There was a disk quotas overriding by internal reason: about 60'000 short files on each VPS. I stoped all VPS, /etc/init.d/vz and tried to remove all these files (by mc). First 2 VPS were success. At third I got a server hanging .
Last messages in log are:
Apr 16 16:11:14 virt kernel: ReiserFS: md1: warning: vs-5355: reiserfs_delete_solid_item: [59953
64236 0x0 SD] not found
Apr 16 16:11:15 virt kernel: ReiserFS: md1: warning: PAP-5660: reiserfs_do_truncate: wrong
result -1 of search for [59953 6
4241 0xffffffffffffff DIRECT]
Apr 16 16:11:23 virt kernel: ReiserFS: md1: warning: vs-5355: reiserfs_delete_solid_item: [59953

64243 0x0 SD] not found
Apr 16 16:11:36 virt kernel: ReiserFS: md1: warning: PAP-5660: reiserfs_do_truncate: wrong result -1 of search for [59953 6
4240 0xffffffffffffff DIRECT]
Apr 16 16:11:42 virt kernel: ReiserFS: md1: warning: PAP-5660: reiserfs_do_truncate: wrong result -1 of search for [59953 6
4237 0xffffffffffffff DIRECT]

After rebooting I found errors on /dev/md1.

Then I have a very strange things with time (it seems 2 hours in past during kernel boot??):
virt:~ # last
root pts/0 XXXXXXXXXXXXXXXX Tue Apr 18 10:16 still logged in
reboot system boot 2.6.16-026test00 Tue Apr 18 12:16 (-1:-54)
root pts/1 XXXXXXXXXXXXXXXX Tue Apr 18 10:02 - 10:14 (00:11)
root pts/1 XXXXXXXXXXXXXXXX Tue Apr 18 09:19 - 09:33 (00:14)
...

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by dev on Tue, 18 Apr 2006 08:33:45 GMT
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smsprog,

1. I personally don't recommend using reiserfs :/ We had enough "fun" supporting this But if you use it, don't forget to report problems to Linux Kernel Mailing List (LKML), to make people aware of it's bugs (as we are very unlikely to be able to help with reiser).

2. about time. Do you have AMD or Intel? Can you check if time is going fast/slow during the day? If it is noticable, try booting with 'noapic' or 'clock=pmtmr'.

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by smsprog on Tue, 18 Apr 2006 10:35:55 GMT
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virt:~ # vzcpucheck
Can't read /proc/fairsched: Permission denied

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by dev on Tue, 18 Apr 2006 10:38:42 GMT
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it's ok. fairsched is not in 2.6.16 yet.

the only feature. will be added soon.

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by smsprog on Tue, 18 Apr 2006 15:02:44 GMT
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Subject: Re: Is a BUG in SUSE10 kernel?
Posted by smsprog on Tue, 30 May 2006 05:17:13 GMT
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Now I again have big problem. The server was hanging after web benchmarking. There is nothing in logs after reseting.
The uptime before was about 1 month.
Now I have a way to install new kernel realeased on 19 May (the day of hanging by the way).
I have 3 questions:
1. Is OpenVZ kernel for SUSE10 stable enough or it's beta?
2. Is OpenVZ kernel for Fedora more stable than for SUSE10?
3. What is to do for kernel troubleshooting? I've read all Guides - there are nothing useful for me.

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by dev on Tue, 30 May 2006 08:46:31 GMT
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I would recommend stock 2.6.16 or 2.6.8.
Was there anything on the screen or you have no access to it?
Can you install serial on net console? This will help us to get kernel messages if something fails.
Check this HOWTO: http://wiki.openvz.org/Troubleshooting

Subject: Re: Is a BUG in SUSE10 kernel?
Posted by smsprog on Tue, 30 May 2006 09:30:27 GMT
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Quote:I would recommend stock 2.6.16 or 2.6.8.
virt:~/Soft # uname -a
Linux virt 2.6.16-026test007-15-smp #3 SMP Fri Apr 14 10:10:10 CEST 2006 i686 i686 i386 GNU/Linux
I'd like to install next release.

Quote:Was there anything on the screen or you have no access to it? Can you install serial on net

console? This will help us to get kernel messages if something fails.
Check this HOWTO: http://wiki.openvz.org/Troubleshooting

There are no messages on screen. Login: only.