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Subject: Weird VE/UBC problem

Posted by [dlzinc](#) on Fri, 27 Oct 2006 04:18:26 GMT

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I tried to SSH into one of my VPSes and it failed (connection reset). So I logged in to the HN and tried enter, that failed. Usually when that happens it's "cannot fork" due to inadequate resource, but this time...

```
[root@sakura ~]# vzctl enter 112
enter failed
```

I checked UBC just in case...

```
[root@sakura ~]# vzctl exec 112 cat /proc/user_beancounters
```

Version: 2.5

uid resource	held	maxheld	barrier	limit	failcnt	
112: kmemsize	2936930	4623186	16384000	18022400		0
lockedpages	0	0	32	32	0	
privvmpages	47892	245925	262144	288358		0
shmpages	140	812	8192	8192	0	
dummy	0	0	0	0	0	
numproc	52	80	100	100	0	
physpages	12146	27743	0	2147483647		0
vmguarpages	0	0	6144	2147483647		0
oomguarpages	12146	27743	6144	2147483647		0
numtcpsock	10	18	80	80	0	
numflock	6	12	100	110	0	
numpty	0	1	16	16	0	
numsiginfo	0	10	256	256	0	
tcpsndbuf	101728	291600	5365760	10485760		0
tcprcvbuf	214120	507292	5365760	10485760		0
othersockbuf	22360	45640	1503232	4063232		0
dgramrcvbuf	0	8380	2097152	2097152		0
numothersock	18	28	80	80	0	
dcachesize	0	0	1048576	1097728		0
numfile	1164	1706	2048	2048	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
dummy	0	0	0	0	0	
numiptent	10	10	128	128	0	

I tried restarting it, and it still had the same problem. I checked dmesg and noticed:

UBC: BUG: fixing bad page PBs for c1646fbc

flags: 0x20000070 mapping: ef9c43fd mapcount: 0 count: 1

```
PB is c2e56da0 magic 1651769345
[<c015f2ab>] pb_remove_ref+0x34b/0x460
[<c016b380>] find_get_page+0x50/0x130
[<c018133a>] zap_pte_range+0x18a/0x2e0
[<c015ec88>] pb_add_ref+0x1f8/0x4d0
[<c0181513>] zap_pmd_range+0x83/0xb0
[<c01816bf>] unmap_page_range+0x5f/0xf0
[<c0181870>] unmap_vmas+0x120/0x200
[<c0189105>] exit_mmap+0xa5/0x260
[<c012d0ce>] mmpu+0x7e/0x130
[<c01356ee>] do_exit+0x1be/0x860
[<c0135ece>] do_group_exit+0xbe/0x1d0
[<c0120c40>] do_page_fault+0x0/0x5dd
[<c057b61f>] syscall_call+0x7/0xb
Leak PB c2e56da0 for UB f6af0580
removed 1 PBs from hash
VPS: 112: stopped
VPS: 112: started
Registered tone zone 0 (United States / North America)
```

The stopped/started was me trying to restart it. It runs asterisk with ztdummy.

1. What does that UBC BUG mean?
  2. Would ztdummy have something to do with it?
- I have never had this issue before.

Off-topic:

Is there a specific reason why ipt\_owner isn't built into the OVZ stab kernel? Is it because it needs to be virtualized to work properly?

```
[root@sakura ~]# uname -ar
Linux sakura.seraphimnetworks.com 2.6.9-023stab032.1 #1 Fri Oct 20 02:48:36 MSD 2006 i686
i686 i386 GNU/Linux
```

About the only thing I haven't tried yet is restarting the HN (I kinda want to avoid doing that if possible...)

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Subject: Re: Weird VE/UBC problem  
Posted by [Vasily Tarasov](#) on Fri, 27 Oct 2006 07:01:00 GMT  
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Hello,

Quote:

## 1. What does that UBC BUG mean?

this is definitely openVZ kernel BUG. I filled the bug:

[http://bugzilla.openvz.org/show\\_bug.cgi?id=320](http://bugzilla.openvz.org/show_bug.cgi?id=320)

You can add your e-mail to CC to follow the progress on the bug.

BTW, if you've compiled the kernel by yourself, then, please, add your .config file to bug report. Thanks!

Quote:2. Would ztdummy have something to do with it?

I have never had this issue before.

ztdummy is a kernel module... And there is no such module in mainstream (vanilla kernel)... So you have compiled it yourself. Where have you got sources for ztdummy?

Quote:

Is there a specific reason why ipt\_owner isn't built into the OVZ stab kernel? Is it because it needs to be virtualized to work properly?

Ohhh!... ipt\_owner is virtualized, but we just forgot to turn appropriate option on! Thanks, will be fixed in the next kernel!

Good luck,  
vass.

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Subject: Re: Weird VE/UBC problem  
Posted by [dev](#) on Fri, 27 Oct 2006 07:54:44 GMT  
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check [http://bugzilla.openvz.org/show\\_bug.cgi?id=320](http://bugzilla.openvz.org/show_bug.cgi?id=320)  
it looks like memory corruption (1 bit modification).  
Please check your hardware according to [http://wiki.openvz.org/Hardware\\_testing](http://wiki.openvz.org/Hardware_testing)

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Subject: Re: Weird VE/UBC problem  
Posted by [dlzinc](#) on Fri, 27 Oct 2006 14:33:26 GMT  
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<http://ftp.digium.com/pub/zaptel/releases/zaptel-1.2.10.tar.gz> are the sources for ztdummy (yes I did compile it myself)

I'll check my hardware...

Subject: Re: Weird VE/UBC problem  
Posted by [curx](#) on Fri, 27 Oct 2006 14:43:46 GMT  
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Hi,

have you loaded the module zaptel, can you please show the "interrupts" in your VE0 (Hardware Node)

# cat /proc/interrupts

and dmesg entries of zaptel ...

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Subject: Re: Weird VE/UBC problem  
Posted by [dlzinc](#) on Fri, 27 Oct 2006 14:47:20 GMT  
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I didn't think zaptel was supposed to have anything in /proc/interrupts unless I had actual zaptel hardware (I don't), which is why I'm using ztdummy.

dmesg snip

Zapata Telephony Interface Registered on major 196  
Zaptel Version: 1.2.10 Echo Cancellor: KB1  
VPS: 109: started  
loop: loaded (max 8 devices)  
VPS: 112: started  
Registered tone zone 0 (United States / North America)  
UBC: BUG: fixing bad page PBs for c1646fbc  
  flags: 0x20000070 mapping: ef9c43fd mapcount: 0 count: 1  
  PB is c2e56da0 magic 1651769345  
[<c015f2ab>] pb\_remove\_ref+0x34b/0x460  
[<c016b380>] find\_get\_page+0x50/0x130  
[<c018133a>] zap\_pte\_range+0x18a/0x2e0  
[<c015ec88>] pb\_add\_ref+0x1f8/0x4d0  
[<c0181513>] zap\_pmd\_range+0x83/0xb0  
[<c01816bf>] unmap\_page\_range+0x5f/0xf0  
[<c0181870>] unmap\_vmas+0x120/0x200  
[<c0189105>] exit\_mmap+0xa5/0x260  
[<c012d0ce>] mmpu+0x7e/0x130  
[<c01356ee>] do\_exit+0x1be/0x860  
[<c0135ece>] do\_group\_exit+0xbe/0x1d0  
[<c0120c40>] do\_page\_fault+0x0/0x5dd

```
[<c057b61f>] syscall_call+0x7/0xb  
Leak PB c2e56da0 for UB f6af0580  
removed 1 PBs from hash  
VPS: 112: stopped  
VPS: 112: started  
Registered tone zone 0 (United States / North America)
```

```
[root@sakura ~]# cat /proc/interrupts  
CPU0  
0: 147306633 IO-APIC-edge timer  
8:      1 IO-APIC-edge rtc  
9:      0 IO-APIC-level acpi  
14: 454483 IO-APIC-edge ide0  
16:      0 IO-APIC-level uhci_hcd  
17:      0 IO-APIC-level uhci_hcd  
18:      0 IO-APIC-level uhci_hcd  
19:      0 IO-APIC-level ehci_hcd  
21: 3515053 IO-APIC-level eth0  
NMI: 147306628  
LOC: 147310762  
ERR:      0  
MIS:      0
```

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