
Subject: Odd errors from the kernel

Posted by [Steve Hodges](#) on Wed, 01 Aug 2007 05:42:43 GMT

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I get this during the running of a script that creates a VE.

The relevant part of the script goes like this:

```
-----  
vzctl create ${VM_NO} --ostemplate debian-4.0-local --config vps.basic  
|| { echo "Error creating VM"; exit 1; }  
  
vzctl set ${VM_NO} --privmpages 32767:65535 --save  
vzctl set ${VM_NO} --name ${VM_NAME} --save  
vzctl set ${VM_NO} --onboot yes --save  
-----
```

I think the error happens during the create or the setting of privmpages, otherwise I'd see more (or less) output.

The server is a very bog standard Debian Etch (minimal system plus sudo, ssh, ntp, less, dnsutils, locale, vzctl, vzquota, vzprocps, vzdump, and vzctl-ostmpl-debian. I have made minor changes to the template (changing /etc/apt/sources.txt, modifying resolv.conf with a search and ndots clause, and setting a few environment variables in /etc/profile). I have updated the kernel from debian.systs.org (i'm using ovzkernel-2.6.18)

here's the error:

```
vs1:~# mk-svn 101 /root/svn-dump.gz  
Creating VE private area (debian-4.0-local)
```

```
Message from syslogd@vs1 at Wed Aug  1 13:21:40 2007 ...  
vs1 kernel: -----[ cut here ]-----
```

```
Message from syslogd@vs1 at Wed Aug  1 13:21:40 2007 ...  
vs1 kernel: kernel BUG at kernel/ub/ub_mem.c:387!
```

```
Message from syslogd@vs1 at Wed Aug  1 13:21:40 2007 ...  
vs1 kernel: invalid opcode: 0000 [#1]
```

```
Message from syslogd@vs1 at Wed Aug  1 13:21:40 2007 ...  
vs1 kernel: esi: 00000202  edi: c10a0500  ebp: 00000080  esp: d3cbfea8
```

```
Message from syslogd@vs1 at Wed Aug  1 13:21:40 2007 ...  
vs1 kernel: ds: 007b  es: 007b  ss: 0068
```

```
Message from syslogd@vs1 at Wed Aug  1 13:21:40 2007 ...
```

vs1 kernel: Process gzip (pid: 4931, veid: 0, ti=d3cbf000 task=d752e660 task.ti=d3cbf000)

Message from syslogd@vs1 at Wed Aug 1 13:21:40 2007 ...
vs1 kernel: Stack: c10a0500 c050a068 d752e660 000600d2 c050a068 c01505ec c10a0500 00000000

Message from syslogd@vs1 at Wed Aug 1 13:21:40 2007 ...
vs1 kernel: 000600d2 d7f7ea00 000600d2 00000000 00000010 c10a0500 c01785ae 094896ed

Message from syslogd@vs1 at Wed Aug 1 13:21:40 2007 ...
vs1 kernel: 00000000 00001000 00000001 cecdec00 00000000 00000000 c0178c09 d6b57000

Message from syslogd@vs1 at Wed Aug 1 13:21:40 2007 ...
vs1 kernel: Call Trace:

Message from syslogd@vs1 at Wed Aug 1 13:21:40 2007 ...
vs1 kernel: Code: 5c 24 04 8b 74 24 08 8b 7c 24 0c 8b 6c 24 10 83 c4 14 c3 56 9d 8b 77 20 85 f6 75 1c 89 1c 24 e8 49 e5 ff ff b8 f4 ff ff ff eb d4 <0f> 0b 66 b8 83 01 b8 1d 54 49 c0 eb c2 0f 0b 66 b8 89 01 b8 1d

Message from syslogd@vs1 at Wed Aug 1 13:21:40 2007 ...
vs1 kernel: EIP: [<c013866e>] ub_page_charge+0xae/0xd0 SS:ESP 0068:d3cbfea8

Message from syslogd@vs1 at Wed Aug 1 13:21:40 2007 ...
vs1 kernel: CPU: 0, VCPU: 0.0

Message from syslogd@vs1 at Wed Aug 1 13:21:40 2007 ...
vs1 kernel: EIP is at ub_page_charge+0xae/0xd0

Message from syslogd@vs1 at Wed Aug 1 13:21:40 2007 ...
vs1 kernel: eax: 00000001 ebx: c05ec480 ecx: 00000000 edx: c05ed360

Steve

Subject: Re: Odd errors from the kernel
Posted by [Steve Hodges](#) on Wed, 01 Aug 2007 05:51:31 GMT
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On 1/08/2007 1:42 PM, Steve Hodges wrote:
> I get this during the running of a script that creates a VE.
>

I probably should add that I don't see it very often. This may be the third time. And I've used that same script to create hundreds of VEs

(mostly to test the script).

Steve

Subject: Re: Odd errors from the kernel
Posted by [kir](#) on Wed, 01 Aug 2007 07:13:45 GMT
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Steve Hodges wrote:

> On 1/08/2007 1:42 PM, Steve Hodges wrote:
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>>
>
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> (mostly to test the script).

What kernel version is it?

Subject: Re: Odd errors from the kernel
Posted by [dev](#) on Wed, 01 Aug 2007 07:53:35 GMT
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Steve,

it very much looks like a hardware memory corruption :/
Though I have no your exact vmlinux at hands, I suppose ub is loaded in %esi
and is compared to 0. In your case esi==0x202, which is a 2 bit change.

Plz check your memory with memtest86 (http://wiki.openvz.org/Hardware_testing)

Thanks,
Kirill

Steve Hodges wrote:

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>
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>
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> vzctl create \${VM_NO} --ostemplate debian-4.0-local --config vps.basic
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>
> vzctl set \${VM_NO} --privvmpages 32767:65535 --save
> vzctl set \${VM_NO} --name \${VM_NAME} --save

```

> vzctl set ${VM_NO} --onboot yes --save
> -----
>
> I think the error happens during the create or the setting of
> privvmpages, otherwise I'd see more (or less) output.
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> The server is a very bog standard Debian Etch (minimal system plus sudo,
> ssh, ntp, less, dnsutils, locale, vzctl, vzquota, vzprocps, vzdump, and
> vzctl-ostmpl-debian. I have made minor changes to the template
> (changing /etc/apt/sources.txt, modifying resolv.conf with a search and
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> vs1:~# mk-svn 101 /root/svn-dump.gz
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> vs1 kernel: -----[ cut here ]-----
>
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> vs1 kernel: kernel BUG at kernel/ub/ub_mem.c:387!
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> vs1 kernel:      000600d2 d7f7ea00 000600d2 00000000 00000010 c10a0500
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>
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> vs1 kernel:      00000000 00001000 00000001 cecdec00 00000000 00000000
> c0178c09 d6b57000

```

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> c3 56 9d 8b 77 20 85 f6 75 1c 89 1c 24 e8 49 e5 ff ff b8 f4 ff ff eb
> d4 <0f> 0b 66 b8 83 01 b8 1d 54 49 c0 eb c2 0f 0b 66 b8 89 01 b8 1d
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> vs1 kernel: eax: 00000001 ebx: c05ec480 ecx: 00000000 edx: c05ed360
>
> Steve
