Subject: *SOLVED* vzctl Got signal 4
Posted by jandenouden on Thu, 27 Apr 2006 11:45:25 GMT
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Hi,

I'm new to OpenVZ and having some trouble getting it going. I've downloaded kernel 2.6.16, and applied patch-026test009-combined.gz. I used kernel-2.6.16-026test009-i686.config, but changed the processor type to VIA C3.

Here's how I try to create a new VPS:

```
root@host2:~# vzctl create 1001 --ostemplate centos-4-i386-minimal
Creating VPS private area: /vz/private/1001
Performing postcreate actions
VPS private area was created
root@host2:~# vzctl set 1001 --ipadd 192.168.3.4 --save
Saved parameters for VPS 1001
root@host2:~# vzctl start 1001
Starting VPS ...
VPS is mounted
Adding IP address(es): 192.168.3.4
Got signal 4
Setting CPU units: 1000
VPS start in progress...
root@host2:~# vzctl exec 1001 ps ax
Got signal 4
root@host2:~#
```

Some additional info:

```
root@host2:~# cat /proc/cpuinfo
processor       : 0
vendor_id       : CentaurHauls
cpu family      : 6
model           : 7
model name      : VIA Samuel 2
stepping        : 3
cpu MHz         : 533.455
cache size      : 64 KB
fdiv_bug        : no
hlt_bug         : no
f00f_bug        : no
coma_bug        : no
fpu             : yes
fpu_exception   : yes
cpuid level     : 1
wp              : yes
```

flags : fpu de tsc msr cx8 mtrr pge mmx 3dnow
bogomips : 1068.27

and

```
root@host2:~# lsmod
Module                  Size  Used by
simfs                  3644  3
vznetdev               12256  4
vzdquota               35540  3 [permanent]
vzmon                  41120  4 vznetdev
vzdev                  2276  3 vznetdev,vzdquota,vzmon
af_packet              16648  0
xt_length              1888  6
ipt_ttl                1760  3
xt_tcpmss              2336  6
ipt_TCPMSS             3744  3
iptable_mangle         3680  3
iptable_filter         3360  3
ipt_multiport          2432  6
xt_limit               2272  6
ipt_tos                1504  3
ipt_REJECT             4160  3
ip_tables              12184  2 iptable_mangle,iptable_filter
x_tables               12704  9   xt_length,ipt_ttl,xt_tcpmss,ipt_TCPMSS,ipt_multiport,xt_limi
t,ipt_tos,ipt_REJECT,ip_tables
ohci_hcd               18244  0
ehci_hcd               26888  0
shpchp                 37664  0
parport_pc             25284  0
parport                19360  1 parport_pc
uhci_hcd               28496  0
usbcore                109028  4 ohci_hcd,ehci_hcd,uhci_hcd
i2c_viapro             7316  0
i2c_core               16624  1 i2c_viapro
ide_scsi               13348  0
```

Anyone have idea idea why it doesn't work?

Thanks,
Jan

Subject: Re: vzctl Got signal 4
Posted by dev on Fri, 28 Apr 2006 04:21:58 GMT

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Signal 4 == SIGILL.
i.e. vzctl (or some other bindary inside template?) contains illegal instructions for your CPU.
Have you recompiled vzctl and vzquota as well?

Also your try:

root@host2:~# vzctl exec 1001 ps ax
Got signal 4

makes me believe, that centos4 binaries are compiled with flags incompatible with Via C3 processor.

Subject: Re: vzctl Got signal 4
Posted by jandenouden on Thu, 04 May 2006 12:29:13 GMT
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Thanks for your response.

The Centos template is centos-4-i386-minimal.tar.gz, so it should run on the C3 processor (which is not fully i686 compatible).

I've compiled vzctl and vzquota from source with an i486 target.

Xen won't run on this processor due to, I believe, the processor using a different pagesize than standard. Could this also be the problem with OpenVZ?

Thanks,
Jan

Subject: Re: vzctl Got signal 4
Posted by dev on Fri, 05 May 2006 17:26:56 GMT
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It should not be a problem for OpenVZ itself as it can work on any arch where std linux works.
You need to strace vzctl and find which binary and why crashes.
I still think that some binaries are built with inappropriate options for your CPU.

Subject: Re: vzctl Got signal 4
Posted by jandenouden on Tue, 30 May 2006 14:29:46 GMT

You're right, even though an image has 'i386' in the name, it might very well contain i686 code. For example, Fedora Core will install some i686 rpms if it detects an i686 compatible processor. Which will break things if you then copy this image to a non-i686 processor.

Thanks for your help.

Jan