
Subject: kmemsize not found

Posted by [heber](#) on Mon, 16 Apr 2007 14:31:07 GMT

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Hello all.

I'm interested in using OpenVZ to virtualize some services of development projects in a production server.

I choose OpenVZ because it has less overhead than others (Xen, Vmware) and OS virtualization is enough for my needs.

I'm using a Ubuntu 6.06, kernel 2.6.15 vanilla with OpenVZ patches patch-025stab014-combined.

The installation (kernel compilation + user tools + creating a ubuntu_minimum vm) was fine (no errors), but I'm getting a strange issue when I execute vzcalc and vzmemcheck, it follows below:

```
root@TestOpenVZ:~# vzcalc 1001
Error: parameter KMEMSIZE not found
```

```
root@TestOpenVZ:~# vzmemcheck
Output values in %
LowMem LowMem  RAM MemSwap MemSwap  Alloc  Alloc  Alloc
util  commit  util  util  commit  util  commit  limit
Error: parameter kmemsize not found
Error: parameter kmemsize not found
  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
```

I didn't change any parameters, they still are the defaults.

Anyone can give me a clue about this problem? Any idea?

My kernel configuration is:

```
# OpenVZ
#
CONFIG_VE=y
CONFIG_VE_CALLS=m
CONFIG_VE_SYSFS=y
CONFIG_VE_NETDEV=m
CONFIG_VE_IPTABLES=y
CONFIG_VZ_WDOG=m

# User resources
#
CONFIG_USER_RESOURCE=y
CONFIG_USER_RSS_ACCOUNTING=y
CONFIG_USER_SWAP_ACCOUNTING=y
```

```
CONFIG_USER_RESOURCE_PROC=y
CONFIG_UBC_DEBUG=y
CONFIG_UBC_DEBUG_KMEM=y
CONFIG_UBC_KEEP_UNUSED=y
CONFIG_UBC_DEBUG_ITEMS=y
CONFIG_UBC_UNLIMITED=y
CONFIG_GENERIC_HARDIRQS=y
CONFIG_GENERIC_IRQ_PROBE=y
CONFIG_GENERIC_PENDING_IRQ=y
CONFIG_X86_SMP=y
CONFIG_X86_HT=y
CONFIG_X86_BIOS_REBOOT=y
CONFIG_X86_TRAMPOLINE=y
```

File systems

#

--

```
CONFIG_SIM_FS=m
CONFIG_VZ_QUOTA=m
CONFIG_VZ_QUOTA_UNLOAD=y
```

Sorry my poor english.

Thanks a lot

Subject: Re: kmemsize not found
Posted by [Vasily Tarasov](#) on Tue, 17 Apr 2007 05:36:57 GMT
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Hello, seems to be not kernel issue, but vzctl package... What vzctl version do you use? Have you managed to create/start any VEs?

Thank you,
Vasily.

Subject: Re: kmemsize not found
Posted by [Vasily Tarasov](#) on Tue, 17 Apr 2007 05:39:32 GMT
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BTW, I don't recomend you to use 2.6.15-025stab14.1 kernel: it's too old. It's better to use 2.6.18, or 2.6.18-el based kernels. This is not relayted to your current issue, I just wanted to inform you.

Thank you,
Vasily.

Subject: Re: kmemsize not found
Posted by [heber](#) on Tue, 17 Apr 2007 12:49:52 GMT
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Hello Vasily,

The vzctl version is 3.0.16-1dso2~sarge0. I've also tried the 3.0.13, which I compiled from sources.

Both gave me the same error.

I've already created the ve:
vzctl create 1001 --ostemplate ubuntu-6.06-i386-minimal

It starts with no problems and works perfectly. At start, I get:

```
root@TestOpenVZ:~# vzctl start 1001
Starting VE ...
VE is mounted
Adding IP address(es): 10.77.0.111
Setting CPU units: 1000
Set hostname: vz1001
File resolv.conf was modified
VE start in progress...
```

Bellow is the conf file:

```
root@TestOpenVZ:~# cat /etc/vz/conf/1001.conf
ONBOOT="no"

# UBC parameters (in form of barrier:limit)
# Primary parameters
AVNUMPROC="40:40"
NUMPROC="65:65"
NUMTCPSOCK="80:80"
NUMOTHERSOCK="80:80"
VMGUARPAGES="6144:2147483647"
# Secondary parameters
KMEMSIZE="2752512:2936012"
TCPSNDBUF="319488:524288"
TCPRCVBUF="319488:524288"
OTHERSOCKBUF="132096:336896"
DGRAMRCVBUF="132096:132096"
OOMGUARPAGES="6144:2147483647"
# Auxiliary parameters
LOCKEDPAGES="32:32"
SHMPAGES="8192:8192"
PRIVVMPAGES="49152:53575"
```

```
NUMFILE="2048:2048"  
NUMFLOCK="100:110"  
NUMPTY="16:16"  
NUMSIGINFO="256:256"  
DCACHESIZE="1048576:1097728"
```

```
PHYSPAGES="0:2147483647"  
NUMIPTENT="128:128"
```

```
# Disk quota parameters (in form of softlimit:hardlimit)  
DISKSPACE="1048576:1153434"  
DISKINODES="200000:220000"  
QUOTATIME="0"
```

```
# CPU fair sheduler parameter  
CPUUNITS="1000"  
VE_ROOT="/var/lib/vz/root/$VEID"  
VE_PRIVATE="/var/lib/vz/private/$VEID"  
OSTEMPLATE="ubuntu-6.06-i386-minimal"  
ORIGIN_SAMPLE="vps.basic"  
IP_ADDRESS="10.77.0.111"  
HOSTNAME="vz1001"  
NAMESERVER="a.b.c.d"
```

Any idea?

Thanks a lot for the answer.

Subject: Re: kmemsize not found
Posted by [heber](#) on Tue, 17 Apr 2007 12:59:08 GMT
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Yes, I know.

But I'll have to put OpenVZ in a RHEL 4 production server with RH support, and I'm afraid to lose the support if I change the kernel version to an unofficial.

In this server I'm planning to install the supported kernel which is 2.6.9.x, what is older than 2.6.15, but what could I do?

I'm trying to use 2.6.15 kernel in a test Ubuntu machine, just to test OpenVZ before installing in the production server.

Thanks a lot

Subject: Re: kmemsize not found
Posted by [heber](#) on Tue, 17 Apr 2007 20:53:30 GMT
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All,

It's working !

I compiled the kernel again changing the following parameters:

FROM:
CONFIG_UBC_KEEP_UNUSED=y
CONFIG_UBC_DEBUG_ITEMS=y
CONFIG_UBC_UNLIMITED=y

TO:
CONFIG_UBC_KEEP_UNUSED is not set
CONFIG_UBC_DEBUG_ITEMS is not set
CONFIG_UBC_UNLIMITED is not set

Anyone can explain to me why vzcalc doesn't work if I change this values?

For what are these parameters used?

Thanks a lot

Subject: Re: kmemsize not found
Posted by [Vasily Tarasov](#) on Wed, 18 Apr 2007 06:15:01 GMT
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Hello,

Thank you for investigating the issue, now I can explain you what's the problem.

When CONFIG_UBC_KEEP_UNUSED is on, all VEs (even stopped) still have entries in /proc/user_beancounters. Held field in this file for stopped VEs equals 0 in this case. vzcalc/vzmemcheck use /proc/user_beancounters to get required values and they go crazy if held value is 0!

I consider such situation as a bug, so, please, fill the report in bugzilla.

Thank you once again,
Vasily.

Subject: Re: kmemsize not found
Posted by [heber](#) on Mon, 23 Apr 2007 17:14:03 GMT
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Hi,

I've already reported as a bug

http://bugzilla.openvz.org/show_bug.cgi?id=548

BTW, where can I find descriptions about all the OpenVZ's kernel config options?

Thanks

Subject: Re: kmemsize not found
Posted by [Vasily Tarasov](#) on Mon, 23 Apr 2007 17:41:33 GMT
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Thanks for filling bug.

Do you mean CONFIG_VE, CONFIG_UBC, etc? Well, the only source of information I know is Kconfig files in kernel source tree: when you do `make menuconfig` you can choose <Help> button for any highlighted config option.

Vasily.
