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Subject: Out-of-memory question

Posted by [Douglas Phillips](#) on Thu, 04 Jan 2007 02:24:39 GMT

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I'm hitting a strange error, and I wanted to get the input of the list on it. When I try to execute java on the VE, I get this error:

```
[iguana@charade ~]$ /usr/local/java/bin/java -version
Error occurred during initialization of VM
Could not reserve enough space for object heap
Could not create the Java virtual machine.
```

If I run java from the HN, no problems, it reports the version information as expected.

Any ideas?

Information to (hopefully) help figure out what's going on:

System:

512MB RAM, 700MHz Athlon Processor  
RedHat FC 4 (latest updates applied)  
kernel-2.6.18-ovz028test007.1

VE: CentOS 4.4

VZ package versions:

vzquota-3.0.9-1  
vzctl-lib-3.0.13-1  
vzctl-3.0.13-1

Output of "free" (with VE mounted and running):

		total	used	free	
shared	buffers	cached			
Mem:		513596	491788	21808	0
57224	385296				
-/+ buffers/cache:		49268	464328		
Swap:		819192	84	819108	

Output of vzmemcheck:

Output values in %

LowMem	LowMem	RAM	MemSwap	MemSwap	Alloc	Alloc	Alloc
util	commit	util	util	commit	util	commit	limit
0.54	2.12	4.77	1.84	2.17	8.96	2.17	16.41

These are the processes that are running (including in the VE):

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1	0.0	0.1	1740	548	?	Ss	2006	0:00	init [3]

```

root      2 0.0 0.0    0 0 ?      S   2006  0:00
[migration/0/0]
root      3 0.0 0.0    0 0 ?      SN  2006  0:00
[ksoftirqd/0]
root      4 0.0 0.0    0 0 ?      S<  2006  0:00 [events/0]
root      5 0.0 0.0    0 0 ?      S<  2006  0:00 [khelper]
root      6 0.0 0.0    0 0 ?      S<  2006  0:00 [kthread]
root     13 0.0 0.0    0 0 ?      S<  2006  0:00 [kblockd/0]
root     14 0.0 0.0    0 0 ?      S<  2006  0:00 [kacpid]
root    174 0.0 0.0    0 0 ?      S<  2006  0:00 [kseriod]
root    237 0.0 0.0    0 0 ?      S   2006  0:00 [ubstatd]
root    241 0.0 0.0    0 0 ?      S<  2006  0:02 [kswapd0]
root    242 0.0 0.0    0 0 ?      S<  2006  0:00 [aio/0]
root    887 0.0 0.0    0 0 ?      S<  2006  0:00 [ata/0]
root    888 0.0 0.0    0 0 ?      S<  2006  0:00 [ata_aux]
root    908 0.0 0.0    0 0 ?      S<  2006  0:00 [kpsmoused]
root    911 0.0 0.0    0 0 ?      S<  2006  0:00 [kcryptd/0]
root    912 0.0 0.0    0 0 ?      S<  2006  0:00 [kmpathd/0]
root    913 0.0 0.0    0 0 ?      S<  2006  0:00 [kmirrord]
root    927 0.0 0.0    0 0 ?      S<  2006  0:08 [kjournald]
root   1007 0.0 0.0    0 0 ?      S<  2006  0:00 [khubd]
root   2153 0.0 0.0  1648 420 ?    S<S  2006  0:00 udevd -d
root   2794 0.0 0.0    0 0 ?      S<  2006  0:00 [kjournald]
root   4115 0.0 0.0    0 0 ?      S   2006  0:00 [vzmond]
root   4146 0.0 0.1  1608 556 ?    Ss   2006  0:01 syslogd
-m 0
root   4148 0.0 0.0  1560 412 ?    Ss   2006  0:00 klogd -x
rpcuser 4179 0.0 0.1  1740 716 ?    Ss   2006  0:00 rpc.statd
root   4220 0.0 0.1  4372 568 ?    Ss   2006  0:00 rpc.idmapd
root   4388 0.0 0.2  4400 1064 ?   Ss   2006  0:00
/usr/sbin/sshd
root   4426 0.0 0.1  4568 936 ?    Ss   2006  0:00 crond
root   4440 0.0 0.0  1804 428 ?    Ss   2006  0:00
/usr/sbin/atd
dbus    4554 0.0 0.1  2548 996 ?    Ss   2006  0:00
dbus-daemon --system
nobody  4573 0.0 0.1  2208 664 ?    S   2006  0:00
/usr/sbin/dnsmasq -s sbslocal
root   4581 0.0 0.0  1544 452 tty3   Ss+  2006  0:00
/sbin/mingetty tty3
root   4582 0.0 0.0  1548 456 tty4   Ss+  2006  0:00
/sbin/mingetty tty4
root   4583 0.0 0.0  1548 452 tty5   Ss+  2006  0:00
/sbin/mingetty tty5
root   4584 0.0 0.0  1544 452 tty6   Ss+  2006  0:00
/sbin/mingetty tty6
root  30876 0.0 0.0    0 0 ?      S   2006  0:01 [pdflush]
root  30879 0.0 0.0    0 0 ?      S   2006  0:00 [pdflush]

```

```

root    349 0.0 0.2 2420 1272 ?    Ss  2006  0:00 login
-- iguana
iguana  358 0.0 0.2 4380 1408 tty1  Ss+ 2006  0:00 -bash
root    2237 0.0 0.0 1548 424 tty2  Ss+ Jan01  0:00
/sbin/mingetty tty2
root    27263 0.0 0.4 7276 2260 ?    Ss  18:50  0:00 sshd:
iguana [priv]
iguana  27269 0.0 0.3 7436 1724 ?    S  18:50  0:00 sshd:
iguana@pts/0
iguana  27274 0.0 0.2 4380 1436 pts/0  Ss  18:50  0:00 -bash
root    29557 0.0 0.1 1696 600 ?    Ss  19:42  0:00 init [3]
root    29558 0.0 0.0 0 0 ?    S<  19:42  0:00
[migration/101/0]
root    30944 0.0 0.1 1596 544 ?    Ss  19:42  0:00 syslogd
-m 0
root    30954 0.0 0.2 4080 1128 ?    Ss  19:42  0:00
/usr/sbin/sshd
root    30967 0.0 0.1 2148 792 ?    Ss  19:42  0:00 xinetd
-stayalive -pidfile /v
root    30978 0.0 0.2 2216 1124 ?    S  19:42  0:00 /bin/sh
/usr/bin/mysqld_safe
100     31002 0.0 2.7 100432 14260 ?    SI  19:42  0:00
/usr/sbin/mysqld --basedir=/
root    31030 0.0 0.3 7380 1848 ?    Ss  19:42  0:00
sendmail: accepting connectio
smmsp   31038 0.0 0.3 6480 1628 ?    Ss  19:43  0:00
sendmail: Queue runner@01:00:
root    31064 0.0 0.4 7660 2400 ?    Ss  19:43  0:00
/usr/sbin/httpd
48      31065 0.0 0.3 7660 1760 ?    S  19:43  0:00
/usr/sbin/httpd
48      31066 0.0 0.3 7660 1760 ?    S  19:43  0:00
/usr/sbin/httpd
48      31067 0.0 0.3 7660 1760 ?    S  19:43  0:00
/usr/sbin/httpd
48      31068 0.0 0.3 7660 1760 ?    S  19:43  0:00
/usr/sbin/httpd
48      31073 0.0 0.3 7660 1760 ?    S  19:43  0:00
/usr/sbin/httpd
48      31074 0.0 0.3 7660 1760 ?    S  19:43  0:00
/usr/sbin/httpd
48      31075 0.0 0.3 7660 1760 ?    S  19:43  0:00
/usr/sbin/httpd
48      31076 0.0 0.3 7660 1760 ?    S  19:43  0:00
/usr/sbin/httpd
root    31081 0.0 0.1 2476 912 ?    Ss  19:43  0:00 crond
root    31242 0.0 0.4 6920 2196 ?    Ss  19:59  0:00 sshd:
iguana [priv]

```

```
iguana 31244 0.0 0.3 6920 1604 ? S 19:59 0:00 sshd:
iguana@pts/0
iguana 31245 0.0 0.2 2224 1284 /vz/root/101/dev/pts/0 Ss+ 19:59
0:00 -bash
iguana 31467 0.0 0.1 4484 928 pts/0 R+ 20:07 0:00 ps aux
```

From within the VE, the following programs are running:

```
xinetd
sendmail
httpd
sshd
crond
syslogd
mysql
```

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Subject: Re: Out-of-memory question  
Posted by [Ulf Volmer](#) on Thu, 04 Jan 2007 10:34:42 GMT  
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On Wed, Jan 03, 2007 at 08:24:39PM -0600, Douglas G. Phillips wrote:

```
> I'm hitting a strange error, and I wanted to get the input of the list
> on it. When I try to execute java on the VE, I get this error:
>
> [iguana@charade ~]$ /usr/local/java/bin/java -version
> Error occurred during initialization of VM
> Could not reserve enough space for object heap
```

Any fail- counters in /proc/user\_beancounters?

```
cu
ulf
```

```
--
Ulf Volmer
u.volmer@u-v.de
www.u-v.de
```

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Subject: Re: Out-of-memory question  
Posted by [kir](#) on Thu, 04 Jan 2007 15:20:27 GMT  
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See [http://wiki.openvz.org/Resource\\_shortage](http://wiki.openvz.org/Resource_shortage)

Douglas G. Phillips wrote:

```

> I'm hitting a strange error, and I wanted to get the input of the list
> on it. When I try to execute java on the VE, I get this error:
>
> [iguana@charade ~]$ /usr/local/java/bin/java -version
> Error occurred during initialization of VM
> Could not reserve enough space for object heap
> Could not create the Java virtual machine.
>
> If I run java from the HN, no problems, it reports the version
> information as expected.
>
> Any ideas?
>
> Information to (hopefully) help figure out what's going on:
>
> System:
> 512MB RAM, 700MHz Athlon Processor
> RedHat FC 4 (latest updates applied)
> kernel-2.6.18-ovz028test007.1
>
> VE: CentOS 4.4
>
> VZ package versions:
> vzquota-3.0.9-1
> vzctl-lib-3.0.13-1
> vzctl-3.0.13-1
>
> Output of "free" (with VE mounted and running):
>
>              total      used
> free    shared  buffers  cached
> Mem:           513596  491788  21808        0
> 57224   385296
> -/+ buffers/cache:    49268   464328
> Swap:           819192   84      819108
>
> Output of vzmemcheck:
> Output values in %
> LowMem LowMem  RAM MemSwap MemSwap Alloc Alloc Alloc
> util commit util  util commit  util commit limit
> 0.54  2.12  4.77  1.84  2.17  8.96  2.17  16.41
>
> These are the processes that are running (including in the VE):
> USER      PID %CPU %MEM  VSZ  RSS TTY   STAT START  TIME COMMAND
> root       1 0.0 0.1 1740 548 ?    Ss   2006  0:00 init [3]
> root       2 0.0 0.0    0  0 ?    S    2006  0:00
> [migration/0/0]
> root       3 0.0 0.0    0  0 ?    SN   2006  0:00
> [ksoftirqd/0]

```

```

> root      4 0.0 0.0    0 0 ?    S<  2006  0:00
> [events/0]
> root      5 0.0 0.0    0 0 ?    S<  2006  0:00
> [khelper]
> root      6 0.0 0.0    0 0 ?    S<  2006  0:00
> [kthread]
> root     13 0.0 0.0    0 0 ?    S<  2006  0:00
> [kblockd/0]
> root     14 0.0 0.0    0 0 ?    S<  2006  0:00 [kacpid]
> root    174 0.0 0.0    0 0 ?    S<  2006  0:00
> [kseriod]
> root    237 0.0 0.0    0 0 ?    S   2006  0:00
> [ubstatd]
> root    241 0.0 0.0    0 0 ?    S<  2006  0:02
> [kswapd0]
> root    242 0.0 0.0    0 0 ?    S<  2006  0:00 [aio/0]
> root    887 0.0 0.0    0 0 ?    S<  2006  0:00 [ata/0]
> root    888 0.0 0.0    0 0 ?    S<  2006  0:00
> [ata_aux]
> root    908 0.0 0.0    0 0 ?    S<  2006  0:00
> [kpsmoused]
> root    911 0.0 0.0    0 0 ?    S<  2006  0:00
> [kcryptd/0]
> root    912 0.0 0.0    0 0 ?    S<  2006  0:00
> [kmpathd/0]
> root    913 0.0 0.0    0 0 ?    S<  2006  0:00
> [kmirrord]
> root    927 0.0 0.0    0 0 ?    S<  2006  0:08
> [kjournald]
> root   1007 0.0 0.0    0 0 ?    S<  2006  0:00 [khubd]
> root   2153 0.0 0.0  1648 420 ?    S<s 2006  0:00 udevd -d
> root   2794 0.0 0.0    0 0 ?    S<  2006  0:00
> [kjournald]
> root   4115 0.0 0.0    0 0 ?    S   2006  0:00 [vzmond]
> root   4146 0.0 0.1  1608 556 ?    Ss  2006  0:01
> syslogd -m 0
> root   4148 0.0 0.0  1560 412 ?    Ss  2006  0:00 klogd -x
> rpcuser  4179 0.0 0.1  1740 716 ?    Ss  2006  0:00
> rpc.statd
> root   4220 0.0 0.1  4372 568 ?    Ss  2006  0:00
> rpc.idmapd
> root   4388 0.0 0.2  4400 1064 ?    Ss  2006  0:00
> /usr/sbin/sshd
> root   4426 0.0 0.1  4568 936 ?    Ss  2006  0:00 crond
> root   4440 0.0 0.0  1804 428 ?    Ss  2006  0:00
> /usr/sbin/atd
> dbus    4554 0.0 0.1  2548 996 ?    Ss  2006  0:00
> dbus-daemon --system

```

```

> nobody 4573 0.0 0.1 2208 664 ? S 2006 0:00
> /usr/sbin/dnsmasq -s sbslocal
> root 4581 0.0 0.0 1544 452 tty3 Ss+ 2006 0:00
> /sbin/mingetty tty3
> root 4582 0.0 0.0 1548 456 tty4 Ss+ 2006 0:00
> /sbin/mingetty tty4
> root 4583 0.0 0.0 1548 452 tty5 Ss+ 2006 0:00
> /sbin/mingetty tty5
> root 4584 0.0 0.0 1544 452 tty6 Ss+ 2006 0:00
> /sbin/mingetty tty6
> root 30876 0.0 0.0 0 0 ? S 2006 0:01
> [pdflush]
> root 30879 0.0 0.0 0 0 ? S 2006 0:00
> [pdflush]
> root 349 0.0 0.2 2420 1272 ? Ss 2006 0:00 login
> -- iguana
> iguana 358 0.0 0.2 4380 1408 tty1 Ss+ 2006 0:00 -bash
> root 2237 0.0 0.0 1548 424 tty2 Ss+ Jan01 0:00
> /sbin/mingetty tty2
> root 27263 0.0 0.4 7276 2260 ? Ss 18:50 0:00 sshd:
> iguana [priv]
> iguana 27269 0.0 0.3 7436 1724 ? S 18:50 0:00 sshd:
> iguana@pts/0
> iguana 27274 0.0 0.2 4380 1436 pts/0 Ss 18:50 0:00 -bash
> root 29557 0.0 0.1 1696 600 ? Ss 19:42 0:00 init [3]
> root 29558 0.0 0.0 0 0 ? S< 19:42 0:00
> [migration/101/0]
> root 30944 0.0 0.1 1596 544 ? Ss 19:42 0:00
> syslogd -m 0
> root 30954 0.0 0.2 4080 1128 ? Ss 19:42 0:00
> /usr/sbin/sshd
> root 30967 0.0 0.1 2148 792 ? Ss 19:42 0:00
> xinetd -stayalive -pidfile /v
> root 30978 0.0 0.2 2216 1124 ? S 19:42 0:00
> /bin/sh /usr/bin/mysqld_safe
> 100 31002 0.0 2.7 100432 14260 ? SI 19:42 0:00
> /usr/sbin/mysqld --basedir=/
> root 31030 0.0 0.3 7380 1848 ? Ss 19:42 0:00
> sendmail: accepting connectio
> smmsp 31038 0.0 0.3 6480 1628 ? Ss 19:43 0:00
> sendmail: Queue runner@01:00:
> root 31064 0.0 0.4 7660 2400 ? Ss 19:43 0:00
> /usr/sbin/httpd
> 48 31065 0.0 0.3 7660 1760 ? S 19:43 0:00
> /usr/sbin/httpd
> 48 31066 0.0 0.3 7660 1760 ? S 19:43 0:00
> /usr/sbin/httpd
> 48 31067 0.0 0.3 7660 1760 ? S 19:43 0:00

```

```

> /usr/sbin/httpd
> 48      31068 0.0 0.3 7660 1760 ?      S   19:43  0:00
> /usr/sbin/httpd
> 48      31073 0.0 0.3 7660 1760 ?      S   19:43  0:00
> /usr/sbin/httpd
> 48      31074 0.0 0.3 7660 1760 ?      S   19:43  0:00
> /usr/sbin/httpd
> 48      31075 0.0 0.3 7660 1760 ?      S   19:43  0:00
> /usr/sbin/httpd
> 48      31076 0.0 0.3 7660 1760 ?      S   19:43  0:00
> /usr/sbin/httpd
> root    31081 0.0 0.1 2476  912 ?      Ss  19:43  0:00 crond
> root    31242 0.0 0.4 6920 2196 ?      Ss  19:59  0:00 sshd:
> iguana [priv]
> iguana  31244 0.0 0.3 6920 1604 ?      S   19:59  0:00 sshd:
> iguana@pts/0
> iguana  31245 0.0 0.2 2224 1284 /vz/root/101/dev/pts/0 Ss+
> 19:59  0:00 -bash
> iguana  31467 0.0 0.1 4484  928 pts/0   R+   20:07  0:00 ps aux
>
> From within the VE, the following programs are running:
>
> xinetd
> sendmail
> httpd
> sshd
> crond
> syslogd
> mysql

```

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**Subject: SOLVED: Out-of-memory question**  
 Posted by [Douglas Phillips](#) on Fri, 05 Jan 2007 05:53:18 GMT  
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Ulf Volmer wrote:

```

> On Wed, Jan 03, 2007 at 08:24:39PM -0600, Douglas G. Phillips wrote:
>
>> I'm hitting a strange error, and I wanted to get the input of the list
>> on it. When I try to execute java on the VE, I get this error:
>>
>> [iguana@charade ~]$ /usr/local/java/bin/java -version
>> Error occurred during initialization of VM
>> Could not reserve enough space for object heap
>>
>
> Any fail- counters in /proc/user_beancounters?
>

```



Two counters had failures. First was the privvmpages counter, which I increased, and second was the numprocs which hit a limit at 65 after I increased the privvmpages counter. Everything works as expected now. Thanks a lot for the suggestions and help.

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