
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
```
