
Subject: Java heap problem on Centos 5.2

Posted by [anthony sales](#) on Thu, 09 Oct 2008 16:14:52 GMT

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I know people have been getting this error before. I solved it by setting the privvmpages higher and higher until i reached the same amount of memory as my host machine. But then, even with guest having the same amount of memory as my host, I still get the same error. This is what i get when trying to run my app

```
[root@VE102 ]# bin/javaapp
```

```
Error occurred during initialization of VM
```

```
Could not reserve enough space for object heap
```

```
*** glibc detected *** /usr/local/jdk1.6.0_07/bin/java: free(): invalid pointer: 0xb7dea290 ***
```

```
===== Backtrace: =====
```

```
/lib/libc.so.6[0xb7e7bb16]
```

```
/lib/libc.so.6(cfree+0x90)[0xb7e7f070]
```

```
/usr/local/jdk1.6.0_07/jre/lib/i386/client/libjvm.so[0x63d3c 23]
```

```
/usr/local/jdk1.6.0_07/jre/lib/i386/client/libjvm.so[0x63902 60]
```

```
/usr/local/jdk1.6.0_07/jre/lib/i386/client/libjvm.so[0x6391e 9d]
```

```
/usr/local/jdk1.6.0_07/jre/lib/i386/client/libjvm.so[0x63953 19]
```

```
/usr/local/jdk1.6.0_07/jre/lib/i386/client/libjvm.so(JNI_CreateJavaVM+0x53)[0x6245543]
```

```
/usr/local/jdk1.6.0_07/bin/java[0x804afcc]
```

```
/usr/local/jdk1.6.0_07/bin/java(JavaMain+0x72)[0x8049942]
```

```
/lib/libpthread.so.0[0xb7f6846b]
```

```
/lib/libc.so.6(clone+0x5e)[0xb7ee3dbe]
```

```
===== Memory map: =====
```

```
06000000-0641b000 r-xp 00000000 fd:03 6547287
```

```
/usr/local/jdk1.6.0_07/jre/lib/i386/client/libjvm.so
```

```
0641b000-06435000 rwxp 0041a000 fd:03 6547287
```

```
/usr/local/jdk1.6.0_07/jre/lib/i386/client/libjvm.so
```

```
06435000-06855000 rwxp 06435000 00:00 0
```

```
08048000-08052000 r-xp 00000000 fd:03 6548277 /usr/local/jdk1.6.0_07/bin/java
```

```
08052000-08053000 rwxp 00009000 fd:03 6548277 /usr/local/jdk1.6.0_07/bin/java
```

```
09eb7000-09ed8000 rwxp 09eb7000 00:00 0 [heap]
```

```
b5b00000-b5b21000 rwxp b5b00000 00:00 0
```

```
b5b21000-b5c00000 ---p b5b21000 00:00 0
```

```
b5c8d000-b5c98000 r-xp 00000000 fd:03 6091137 /lib/libgcc_s-4.1.2-20080102.so.1
```

```
b5c98000-b5c99000 rwxp 0000a000 fd:03 6091137 /lib/libgcc_s-4.1.2-20080102.so.1
```

```
b5c99000-b5c9a000 rwxp b5c99000 00:00 0
```

```
b5c9a000-b5d19000 rwxp b5c9a000 00:00 0
```

```
b5d19000-b5d41000 rwxp b5d19000 00:00 0
```

```
b5d41000-b7d19000 rwxp b5d41000 00:00 0
```

```
b7d19000-b7d28000 r-xp 00000000 fd:03 6547298 /usr/local/jdk1.6.0_07/jre/lib/i386/libzip.so
```

```
b7d28000-b7d2a000 rwxp 0000e000 fd:03 6547298 /usr/local/jdk1.6.0_07/jre/lib/i386/libzip.so
```

```
b7d2a000-b7d4d000 r-xp 00000000 fd:03 6547294 /usr/local/jdk1.6.0_07/jre/lib/i386/libjava.so
```

```
b7d4d000-b7d4f000 rwxp 00023000 fd:03 6547294 /usr/local/jdk1.6.0_07/jre/lib/i386/libjava.so
```

```
b7d4f000-b7d5a000 r-xp 00000000 fd:03 6547293 /usr/local/jdk1.6.0_07/jre/lib/i386/libverify.so
```

```
b7d5a000-b7d5b000 rwxp 0000b000 fd:03 6547293 /usr/local/jdk1.6.0_07/jre/lib/i386/libverify.so
```

```

b7d5b000-b7d63000 rwx 00000000 fd:03 6842506 (deleted) /tmp/hsperfdata_root/16129
b7d63000-b7d6c000 r-xp 00000000 fd:03 6089620 /lib/libnss_files-2.5.so
b7d6c000-b7d6d000 r-xp 00008000 fd:03 6089620 /lib/libnss_files-2.5.so
b7d6d000-b7d6e000 rwxp 00009000 fd:03 6089620 /lib/libnss_files-2.5.so
b7d6e000-b7d81000 r-xp 00000000 fd:03 6089671 /lib/libnsl-2.5.so
b7d81000-b7d82000 r-xp 00012000 fd:03 6089671 /lib/libnsl-2.5.so
b7d82000-b7d83000 rwxp 00013000 fd:03 6089671 /lib/libnsl-2.5.so
b7d83000-b7d85000 rwxp b7d83000 00:00 0
b7d8a000-b7d90000 r-xp 00000000 fd:03 6547280
/usr/local/jdk1.6.0_07/jre/lib/i386/native_threads/libhpi.so
b7d90000-b7d91000 rwxp 00006000 fd:03 6547280
/usr/local/jdk1.6.0_07/jre/lib/i386/native_threads/libhpi.so
b7d91000-b7d98000 r-xp 00000000 fd:03 6089651 /lib/librt-2.5.so
b7d98000-b7d99000 r-xp 00006000 fd:03 6089651 /lib/librt-2.5.so
b7d99000-b7d9a000 rwxp 00007000 fd:03 6089651 /lib/librt-2.5.so
b7d9a000-b7d9d000 ---p b7d9a000 00:00 0
b7d9d000-b7deb000 rwxp b7d9d000 00:00 0
b7deb000-b7e10000 r-xp 00000000 fd:03 6089624 /lib/libm-2.5.so
b7e10000-b7e11000 r-xp 00024000 fd:03 6089624 /lib/libm-2.5.so
b7e11000-b7e12000 rwxp 00025000 fd:03 6089624 /lib/libm-2.5.so
b7e12000-b7e13000 rwxp b7e12000 00:00 0
b7e13000-b7f50000 r-xp 00000000 fd:03 6089511 /lib/libc-2.5.so
b7f50000-b7f52000 r-xp 0013c000 fd:03 6089511 /lib/libc-2.5.so
b7f52000-b7f53000 rwxp 0013e000 fd:03 6089511 /lib/libc-2.5.so
b7f53000-b7f56000 rwxp b7f53000 00:00 0
b7f56000-b7f58000 r-xp 00000000 fd:03 6089672 /lib/libdl-2.5.so
b7f58000-b7f59000 r-xp 00001000 fd:03 6089672 /lib/libdl-2.5.so
b7f59000-b7f5a000 rwxp 00002000 fd:03 6089672 /lib/libdl-2.5.so
b7f5a000-b7f61000 r-xp 00000000 fd:03 6547296 /usr/local/jdk1.6.0_07/jre/lib/i386/jli/libjli.so
b7f61000-b7f63000 rwxp 00006000 fd:03 6547296 /usr/local/jdk1.6.0_07/jre/lib/i386/jli/libjli.so
b7f63000-b7f76000 r-xp 00000000 fd:03 6089495 /lib/libpthread-2.5.so
b7f76000-b7f77000 r-xp 00012000 fd:03 6089495 /lib/libpthread-2.5.so
b7f77000-b7f78000 rwxp 00013000 fd:03 6089495 /lib/libpthread-2.5.so
b7f78000-b7f7b000 rwxp b7f78000 00:00 0
b7f7e000-b7f7f000 rwxp b7f7e000 00:00 0
b7f7f000-b7f80000 r-xp b7f7f000 00:00 0
b7f80000-b7f81000 r-xp b7f80000 00:00 0 [vdso]
b7f81000-b7f9b000 r-xp 00000000 fd:03 6089635 /lib/ld-2.5.so
b7f9b000-b7f9c000 r-xp 00019000 fd:03 6089635 /lib/ld-2.5.so
b7f9c000-b7f9d000 rwxp 0001a000 fd:03 6089635 /lib/ld-2.5.so
bfc4d000-bfc84000 rwxp bfc4d000 00:00 0 [stack]
Aborted

```

I've tried running the same amount of apps on a weaker machine, and I get to run all the apps with no problems at all. My current host is running on 2 Xeon 5160 procs with 4gb of ram. My weaker machine is a Sempron 2800+ with only 1GB of ram. I'm getting confused as to why my Sempron outperforms my 2 Xeons.. any suggestions?

I'm currently using the following vz packages on CentOS 5.2:

```
vzquota-3.0.11-1
vzctl-lib-3.0.22-1
vzpkg-2.7.0-18
ovzkernel-PAE-devel-2.6.18-92.1.1.el5.028stab057.2
vzyum-2.4.0-11
vzctl-3.0.22-1
vzdump-1.0-2
ovzkernel-PAE-2.6.18-92.1.1.el5.028stab057.2
```

my CentOS 5.2 container has the following settings:

```
102:  kmemsize      9827674 16880967 21080363 21080363      0
      lockedpages 0        0      256      256      0
      privvmpages 448820   767858 1048576 1048576 1390
      shmpages    2605    12221  21504   21504    0
      dummy       0        0        0        0        0
      numproc     215     320    720     720      0
      physpages   31718   55164  384000  384000    0
      vmguarpages 0        0  524288  524288    0
      oomguarpages 31718   55164  524288  524288    0
      numtcpsock  63      83    3200    3200      0
      numflock    6       15    188     206      0
      numpty      6       12    30      30        0
      numsiginfo  0       242   256     256      0
      tcpsndbuf   214408  273588 1720320 2703360    0
      tcprcvbuf   210316 1157372 1720320 2703360    0
      othersockbuf 15224   58408 1126080 2097152    0
      dgramrcvbuf 0       8380  262144  262144    0
      numothersock 54      136   3200    3200      0
      dcachesize  0        0  3409920 3624960    0
      numfile     3900    6450  15000   15000     0
      dummy       0        0        0        0        0
      dummy       0        0        0        0        0
      dummy       0        0        0        0        0
      numiptent   14      14    128     128      0
```

as you can see, i only get failcounts on privvmpages. any suggestions? thanks in advance for the replies!

Subject: Re: Java heap problem on Centos 5.2

Posted by [azagzin](#) on Fri, 17 Oct 2008 08:31:53 GMT

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hello,
try to increase PRIVVMPAGES
