
Subject: Memory Error in VE starting TurboGears Project

Posted by [guen](#) on Tue, 20 Nov 2007 23:48:31 GMT

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Hi,

I am trying to run a Python TurboGear Web-Project (including the TurboGear application server) in a VE, but I just get the error message "MemoryError". I am trying to get it run for days (I am new to openvz and debian) - so big thanks for help!!!

Server:

AMD Athlon 64 X2
5600+ Dual Core
2 GB DDR2 RAM
2 x 400 GB
SATA II
1 GBit OnBoard

Host:

uname -a

2.6.18-openvz-686 #1 SMP Tue Apr 10 20:28:40 CEST 2007 i686 GNU/Linux

VE:

uname -a

2.6.18-openvz-686 #1 SMP Tue Apr 10 20:28:40 CEST 2007 i686 GNU/Linux

free

| | total | used | free | shared | buffers | cached | |
|--------------------|---------|---------|---------|--------|---------|--------|--|
| Mem: | 2042324 | 1341492 | 700832 | 0 | 274236 | 960504 | |
| -/+ buffers/cache: | 106752 | 1935572 | | | | | |
| Swap: | 2104440 | 0 | 2104440 | | | | |

cat /proc/user_beancounters

Version: 2.5

| uid | resource | held | maxheld | barrier | limit | failcnt | |
|------|--------------|--------|---------|---------|------------|---------|---|
| 300: | kmemsize | 962067 | 1960462 | 2752512 | 2936012 | 0 | 0 |
| | lockedpages | 0 | 0 | 32 | 32 | 0 | |
| | privvmpages | 29803 | 51114 | 49152 | 53575 | 66 | |
| | shmpages | 0 | 1296 | 8192 | 8192 | 0 | |
| | dummy | 0 | 0 | 0 | 0 | 0 | |
| | numproc | 23 | 43 | 65 | 65 | 0 | |
| | physpages | 5091 | 18302 | 0 | 2147483647 | 0 | |
| | vmguarpages | 0 | 0 | 6144 | 2147483647 | 0 | |
| | oomguarpages | 5091 | 18302 | 6144 | 2147483647 | 0 | 0 |
| | numtcpsock | 2 | 17 | 80 | 80 | 0 | |

| | | | | | |
|--------------|------|--------|---------|---------|------|
| numflock | 4 | 10 | 100 | 110 | 0 |
| numpty | 1 | 3 | 16 | 16 | 0 |
| numsiginfo | 0 | 5 | 256 | 256 | 0 |
| tcpsndbuf | 0 | 321408 | 319488 | 524288 | 9236 |
| tcprcvbuf | 0 | 481320 | 319488 | 524288 | 2428 |
| othersockbuf | 4464 | 16864 | 132096 | 336896 | 0 |
| dgramrcvbuf | 0 | 8376 | 132096 | 132096 | 0 |
| numothersock | 4 | 13 | 80 | 80 | 0 |
| dcachesize | 0 | 0 | 1048576 | 1097728 | 0 |
| numfile | 493 | 852 | 2048 | 2048 | 0 |
| dummy | 0 | 0 | 0 | 0 | 0 |
| dummy | 0 | 0 | 0 | 0 | 0 |
| dummy | 0 | 0 | 0 | 0 | 0 |
| numiptent | 10 | 10 | 128 | 128 | 0 |

KMEMSIZE="2752512:2936012"
 LOCKEDPAGES="32:32"
 PRIVVMPAGES="49152:53575"
 SHMPAGES="8192:8192"
 NUMPROC="65:65"
 PHYSPAGES="0:2147483647"
 VMGUARPAGES="6144:2147483647"
 OOMGUARPAGES="6144:2147483647"
 NUMTCPSOCK="80:80"
 NUMFLOCK="100:110"
 NUMPTY="16:16"
 NUMSIGINFO="256:256"
 TCPSNDBUF="319488:524288"
 TCPRCVBUF="319488:524288"
 OTHERSOCKBUF="132096:336896"
 DGRAMRCVBUF="132096:132096"
 NUMOTHERSOCK="80:80"
 NUMFILE="2048:2048"
 DCACHESIZE="1048576:1097728"
 NUMIPTENT="128:128"
 AVNUMPROC="40:40"
 CPUUNITS="1000"
 ONBOOT="no"
 ORIGIN_SAMPLE="vps.basic"
 DISKSPACE="1048576:1153434"
 DISKINODES="200000:220000"
 QUOTATIME="0"
 ATIME="0"
 OSTEMPLATE=debian-4.0
 IP_ADDRESS="x.x.x.x"
 NAMESERVER="x.x.x.x"

Subject: Re: Memory Error in VE starting TurboGears Project
Posted by [Gregor Mosheh](#) on Wed, 21 Nov 2007 00:37:21 GMT
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guen wrote:

> I am trying to run a Python TurboGear Web-Project (including the
> TurboGear application server) in a VE, but I just get the error message
> "MemoryError".

MemoryError - That's a clue.

So are these fail counts:

```
>privvmpages    66
>tcpsndbuf      9236
>tcprcvbuf      2428
```

Up those limits and you should be A-OK.

That limit is about 260 MB, and I notice that the limit in your conf file is about 200. If I recall, TurboGears can be a bit of a memory hog, and you'd be best increasing the limit until things run smoothly, before trying to lower the limits.

--

Gregor Mosheh / Greg Allensworth
System Administrator, HostGIS cartographic development & hosting services
<http://www.HostGIS.com/>

"Remember that no one cares if you can back up,
only if you can restore." - AMANDA

Subject: Re: Memory Error in VE starting TurboGears Project
Posted by [efball](#) on Wed, 21 Nov 2007 00:41:59 GMT
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On Wed, Nov 21, 2007 at 12:48:31AM +0100, guen wrote:

```
> Hi,
>
> I am trying to run a Python TurboGear Web-Project (including the TurboGear
> application server) in a VE, but I just get the error message
> "MemoryError". I am trying to get it run for days (I am new to openvz and
> debian) - so big thanks for help!!!
>
> # cat /proc/user_beancounters
> Version: 2.5
>   uid resource      held  maxheld  barrier  limit  failcnt
>   privvmpages      29803  51114   49152   53575    66
>   tcpsndbuf         0  321408  319488  524288  9236
```

```
> tcprcvbuf      0  481320  319488  524288  2428
```

Your settings for privvmpages, tcpsndbuf, and tcprcvbuf are too small. Failcounts should all be zeros, or you've got a problem.

How did you configure your config file settings? I recommend starting with the vzsplit command (see "man vzsplit"), and making adjustments from there if you need to.

--

E Frank Ball efball@efball.com
