
Subject: Re: max number of VE
Posted by [yahbluez](#) on Tue, 28 Aug 2007 12:31:52 GMT
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Same Problem.

I put together all informations:

Dell PE2950, 16GB RAM, 750GB HD, dual E5310
Debian ETCH AMD64 (aka x86_64)

The VE OS is a minimal debian etch.
I try to run 100 instances.

The conf file:

```
# Primary parameters
AVNUMPROC="40:50"
NUMPROC="80:80"
NUMTCPSOCK="60:80"
NUMOTHERSOCK="60:80"
VMGUARPAGES="1725:9223372036854775807"

# Secondary parameters
KMEMSIZE="524288:589824"
TCPSNDBUF="32768:65536"
TCPRCVBUF="32768:65536"
OTHERSOCKBUF="32768:65536"
DGRAMRCVBUF="32768:32768"
OOMGUARPAGES="1725:9223372036854775807"

# Auxiliary parameters
LOCKEDPAGES="4:4"
SHMPAGES="1152:1152"
PRIVVMPAGES="20480:40960"
NUMFILE="512:512"
NUMFLOCK="50:60"
NUMPTY="4:4"
NUMSIGINFO="256:256"
DCACHESIZE="196608:202752"
PHYSPPAGES="0:9223372036854775807"
NUMIPTENT="16:16"

# Disk quota parameters (in form of softlimit:hardlimit)
DISKSPACE="204800:204800"
DISKINODES="80000:88000"
QUOTATIME="0"
```

```
# CPU fair sheduler parameter
CPUUNITS="4000"
```

```
ncl0:~/bin# vzmemcheck -v
Output values in %
veid      LowMem LowMem  RAM MemSwap MemSwap  Alloc  Alloc  Alloc
          util commit  util  util commit  util commit limit
148       0.00 0.01 0.00 0.00 0.02 0.00 0.02 0.50
147       0.00 0.01 0.00 0.00 0.02 0.00 0.02 0.50
```

% and so on all the same

```
103       0.00 0.01 0.00 0.00 0.02 0.00 0.02 0.50
102       0.00 0.01 0.00 0.00 0.02 0.00 0.02 0.50
101       0.00 0.01 0.00 0.00 0.02 0.00 0.02 0.50
100       0.00 0.01 0.00 0.00 0.02 0.00 0.02 0.50
```

```
-----
Summary:  0.10 0.60 0.25 0.12 1.14 0.16 1.14 24.31
```

```
user_beans:
  0: kmemsize          15036287          16002019 9223372036854775807
9223372036854775807    0
  lockedpages          0          5205 9223372036854775807
9223372036854775807    0
  privvmpages          4387          14309 9223372036854775807
9223372036854775807    0
  shmpages             1292          1308 9223372036854775807
9223372036854775807    0
  dummy                0          0 9223372036854775807 9223372036854775807
  0
  numproc              474          483 9223372036854775807
9223372036854775807    0
  physpages            2076          3635 9223372036854775807
9223372036854775807    0
  vmguarpages          0          0 9223372036854775807
9223372036854775807    0
  oomguarpages         2076          3635 9223372036854775807
9223372036854775807    0
  numtcpsock           3          4 9223372036854775807
9223372036854775807    0
  numflock             1          5 9223372036854775807 9223372036854775807
  0
  numpty               2          2 9223372036854775807 9223372036854775807
  0
  numsiginfo           0          3 9223372036854775807 9223372036854775807
```

0		
tcpsndbuf	89776	89776 9223372036854775807
9223372036854775807	0	
tcprcvbuf	49152	0 9223372036854775807
9223372036854775807	0	
othersockbuf	9248	17536 9223372036854775807
9223372036854775807	0	
dgramrcvbuf	0	8456 9223372036854775807
9223372036854775807	0	
numothersock	31	37 9223372036854775807
9223372036854775807	0	
dcachesize	0	0 9223372036854775807 9223372036854775807
0		
numfile	7730	7881 9223372036854775807
9223372036854775807	0	
dummy	0	0 9223372036854775807 9223372036854775807
0		
dummy	0	0 9223372036854775807 9223372036854775807
0		
dummy	0	0 9223372036854775807 9223372036854775807
0		
numiptent	10	10 9223372036854775807
9223372036854775807	0	

look this:

```
ncl0:~/bin# cat /proc/user_beancounters |grep kmemsize
```

148: kmemsize	120682	585476	524288	589824
295				
147: kmemsize	115675	585510	524288	589824
193				
146: kmemsize	128874	581253	524288	589824
354				
145: kmemsize	129785	584720	524288	589824
228				
144: kmemsize	125069	583757	524288	589824
174				
143: kmemsize	119771	585504	524288	589824
288				
142: kmemsize	116586	583821	524288	589824
229				
141: kmemsize	117497	579133	524288	589824
233				
140: kmemsize	127052	584584	524288	589824
220				
139: kmemsize	128874	580862	524288	589824

199				
138: kmemsize	112490	584841	524288	589824
219				
137: kmemsize	124778	582395	524288	589824
213				
136: kmemsize	124778	583811	524288	589824
204				
135: kmemsize	127884	583898	524288	589824
159				
134: kmemsize	129165	584182	524288	589824
191				
133: kmemsize	125689	583081	524288	589824
206				
132: kmemsize	115675	585694	524288	589824
266				
131: kmemsize	128874	579133	524288	589824
219				
130: kmemsize	120682	583053	524288	589824
188				
129: kmemsize	134172	583344	524288	589824
205				
128: kmemsize	111579	585079	524288	589824
253				
127: kmemsize	129785	585966	524288	589824
327				
126: kmemsize	123247	584126	524288	589824
150				
125: kmemsize	124778	585504	524288	589824
224				
124: kmemsize	122956	582856	524288	589824
188				
123: kmemsize	124778	585712	524288	589824
226				
122: kmemsize	129785	579400	524288	589824
185				
121: kmemsize	120682	584060	524288	589824
222				
120: kmemsize	124778	583717	524288	589824
440				
119: kmemsize	121757	585031	524288	589824
226				
118: kmemsize	119771	579178	524288	589824
219				
117: kmemsize	123867	581009	524288	589824
185				
116: kmemsize	123867	584153	524288	589824
209				
115: kmemsize	128874	584850	524288	589824

253				
114: kmemsize	116586	578780	524288	589824
275				
113: kmemsize	120973	578253	524288	589824
197				
112: kmemsize	127963	582059	524288	589824
198				
111: kmemsize	121593	580768	524288	589824
188				
110: kmemsize	212967	585631	524288	589824
341				
109: kmemsize	120973	582570	524288	589824
210				
108: kmemsize	121593	580015	524288	589824
327				
107: kmemsize	204781	584593	524288	589824
766				
106: kmemsize	317829	584358	524288	589824
933				
105: kmemsize	223235	584286	524288	589824
384				
104: kmemsize	124796	584969	524288	589824
640				
103: kmemsize	128874	584806	524288	589824
210				
102: kmemsize	128874	584355	524288	589824
182				
101: kmemsize	118860	584659	524288	589824
228				
100: kmemsize	132970	578085	524288	589824
186				
0: kmemsize	15131641	16243985	9223372036854775807	
9223372036854775807	0			

I've no idea who eats all the kmem.

thc
yahbluez