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"
PHYSPAGES="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