Subject: Application is being killed by kernel with signal 11
Posted by iziz on Tue, 31 Oct 2006 16:44:51 GMT
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Hello,

I use PostgreSQL server inside OpenVZ VE. From time to time it falls saying that one of the backends exited abnormally (after 11 signal) and possibly corrupted shared memory. This leads to whole server restart which is highly undesirable in my setup.

I checked your wiki and adjusted UBC accordingly to 4GB of RAM I have on physical machine (I set up beancounters to have some free resources for future but also big enough to have PostgreSQL stable working as I thought). Here is my /proc/user_beancounters file:

```
uid resource       held     maxheld     barrier       limit failcnt
98076:
kmemsize       21901424    36869261    70451200    71000000 0
lockedpages           0           0          64          64 0
privvmpages      279568      299439     1560000     1572864 0
shmpages         243748      243764      327680      327680 0
dummy                 0           0           0           0 0
numproc              33          45         650         650 0
physspages       266354      275590           0  2147483647 0
vmguarpages           0           0      524288  2147483647 0
oomguarpages      267917      277186      524288  2147483647 0
numtcpsock           20          34         800         800 0
numflock              2           5         400         440 0
numpty                2           2          16          16 0
numsiginfo            0           3         256         256 0
tcpsndbuf          6684      204976     3194880     5242880 0
tcprcvbuf             0       19900     3194880     5242880 0
othersockbuf     122540      498476     1320960     4000000 0
dgramrcvbuf           0      185856     1320960     1320960 0
numothersock         81          90        1000        1000 0
dcachesize       256004      327754     4915200    54067200 0
numfile            1660        2781       12800       12800 0
dummy                 0           0           0           0 0
dummy                 0           0           0           0 0
dummy                 0           0           0           0 0
numiptent            19          19         128         128 0
```

So the questions are:

1. Why does kernel kill PostgreSQL with SIGSEGV?
2. Why don't I see increments in fail counters?
3. How is that possible to understand what resource limit (if I'm right in my assumption that kernel kills PostgreSQL because of resource limits excess) PostgreSQL tried to exceed given all maxheld values?

4. What's wrong with these UBC?

Forgot to tell:

[root@pg1 ~]# uname -r
2.6.8-022stab078.21.ipsec.1-enterprise

Hope that someone can help me.