Hi,

when I test the built-in pool, I found a database crash appearance:

1.pool setting

```
session_pool_size=2
session_pool_ports=1
```

2.start-up two identical backend

sessionA:

sessionB

3.If I disconnection sessionA

4.subsequently, I try to connection other database

```
postgres@ubuntu:/home/hk/builtinpool/bin$ ./psql -d temp1 -p 5433
psql: FATAL: Failed to open session (dbname=temp1 user=postgres) in backend 42710 (dbname=temp user=postgres)
postgres@ubuntu:/home/hk/builtinpool/bin$
```

5.the log information, system was recovery, the pool crash

```
2018-07-28 21:24:59.144 PDT postgres temp1 [local] 5b5d4022.a6d6 5 [42710] FATAL: Failed to
open session (dbname=temp1 user=postgres) in backend 42710 (dbname=temp user=postgres)
2018-07-28 21:24:59.145 PDT 5b5d4011.a6cc 8 LOG: server process (PID 42710) exited with exit
code 1
2018-07-28 21:24:59.145 PDT 5b5d4011.a6cc 9 DETAIL: Failed process was running: select
pg backend pid();
2018-07-28 21:24:59.145 PDT 5b5d4011.a6cc 10 LOG: terminating any other active server
processes
2018-07-28 21:24:59.145 PDT postgres temp [local] 5b5d4058.a6dc 4 [42716] WARNING: terminating
connection because of crash of another server process
2018-07-28 21:24:59.145 PDT postgres temp [local] 5b5d4058.a6dc 5 [42716] DETAIL: The
postmaster has commanded this server process to roll back the current transaction and exit,
because another server process exited abnormally and possibly corrupted shared memory.
2018-07-28 21:24:59.145 PDT postgres temp [local] 5b5d4058.a6dc 6 [42716] HINT: In a moment
you should be able to reconnect to the database and repeat your command.
2018-07-28 21:24:59.149 PDT 5b5d4012.a6d2 1 WARNING: terminating connection because of crash
of another server process
2018-07-28 21:24:59.149 PDT 5b5d4012.a6d2 2 DETAIL: The postmaster has commanded this server
process to roll back the current transaction and exit, because another server process exited
abnormally and possibly corrupted shared memory.
2018-07-28 21:24:59.149 PDT
                             5b5d4012.a6d2 3 HINT: In a moment you should be able to
reconnect to the database and repeat your command.
2018-07-28 21:24:59.150 PDT 5b5d4011.a6cc 11 LOG: all server processes terminated;
reinitializing
2018-07-28 21:24:59.188 PDT 5b5d419b.a6ef 1 LOG: database system was interrupted; last known
up at 2018-07-28 21:18:26 PDT
2018-07-28 21:24:59.218 PDT 5b5d419b.a6ef 2 LOG: database system was not properly shut down;
```

```
automatic recovery in progress

2018-07-28 21:24:59.220 PDT 5b5d419b.a6ef 3 LOG: redo starts at 0/161C700

2018-07-28 21:24:59.220 PDT 5b5d419b.a6ef 4 LOG: invalid record length at 0/161C738: wanted

24, got 0

2018-07-28 21:24:59.220 PDT 5b5d419b.a6ef 5 LOG: redo done at 0/161C700

2018-07-28 21:24:59.229 PDT 5b5d4011.a6cc 12 LOG: database system is ready to accept connections

2018-07-28 21:26:36.766 PDT [unknown] [unknown] [local] 5b5d41fc.a6f9 1 [42745] LOG: connection received: host=[local]

2018-07-28 21:26:36.767 PDT postgres temp [local] 5b5d41fc.a6f9 2 [42745] LOG: connection authorized: user=postgres database=temp
```

6.I made some small attempts ,May conflict with your idea it's limited to the pool is full and the backend inside is identical