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Subject: Re: PostgreSQL can't allocate shared memory

Posted by [dev](#) on Mon, 16 Apr 2007 07:37:42 GMT

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Gregor Mosheh wrote:

> Hi, all.

> First: OpenVZ; nice. A slick alternative to VMWare, less overhead. Nice.

> But, a hitch in my first experiments...

>

> I have PostgreSQL 8.1 in a VE (Fedora Core 6, for what it's worth), and I

> cannot set `shared_buffers` higher than 3700 (about 30 MB) and have it

> start. Anything higher and it complains that it can't allocate the shared

> memory.

>

> In the UBC, I verified that I set `shmpages` to 32000, which should be 128

> MB at 4k apiece (or 256 MB if it's 8k pages; I'm not sure which it is for

> shared memory pages) and therefore more than enough for PgSQL's request. I

> have tried raising `shmpages`, but it doesn't change anything. The

> `privvmpages` is 262144 (1 GB) so this should also be plenty.

>

> The UBC is showing 0 failcount across the board.

>

> And the HN's `kernel.shmmax` is set to 1 GB. (Is that relevant in a VE?)

check the same in VE please.

AFAICS, by default kernel sets:

```
#define SHMMAX 0x2000000
```

which is 32Mb.

So you have to increase it in VE `/etc/sysctl.conf` file or in `/proc`.

> I'd be very appreciative of any help. And thanks for the software!

You are welcome!

Thanks,

Kirill

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