

Re: Tuning for PostgreSQL Database

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2003-07/0085.html>

From: Christopher Weimann (cweimann_at_k12hq.com)

Date: 07/25/03

Date: Fri, 25 Jul 2003 12:26:01 -0400

To: Tom Samplonius <tom@sdf.com>

On Fri 07/25/2003-12:03:32AM -0700, Tom Samplonius wrote:

>
> *Maybe you should continue to worry. PostgreSQL isn't MySQL (or a
> typical server application). It reads all database pages into its shared
> memory area. It is wasteful for the DBMS and the OS to both cache this
> data. You'll want the PostgreSQL shared memory size to be around 75% the
> size of RAM (on a dedicated DBMS server). In fact, many commercial DBMS
> systems will use raw writes to bypass the OS cache!*
>

I was concerned about the disk cache because of this link

<http://www.varlena.com/varlena/GeneralBits/Tidbits/perf.html#shbuf>

which says...

PostgreSQL counts a lot on the OS to cache data files and hence does not bother with duplicating its file caching effort. The shared buffers parameter assumes that OS is going to cache a lot of files and hence it is generally very low compared with system RAM. Even for a dataset in excess of 20GB, a setting of 128MB may be too much, if you have only 1GB RAM and an aggressive-at-caching OS like Linux.

But now that I have looked a bit more I see that this link

http://www.postgresql.org/docs/aw_pgsql_book/hw_performance/node6.html

which says...

Ideally, the POSTGRESQL shared buffer cache will be:

- * Large enough to hold most commonly-accessed tables
- * Small enough to avoid swap pagein activity

So I have conflicting documentation.

freebsd-performance: Re: Tuning for PostGreSQL Database

I have machine with 4Gig of ram. What is the maximum value of SHMMAX on FreeBSD?

freebsd-performance@freebsd.org mailing list

<http://lists.freebsd.org/mailman/listinfo/freebsd-performance>

To unsubscribe, send any mail to "freebsd-performance-unsubscribe@freebsd.org"