

[seanc@FreeBSD.org: Re: cvs commit: ports/databases/postgresql-devel Makefile distinfo pkg-message pkg-plist]

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2003-10/0001.html>

From: Sean Chittenden (seanc_at_FreeBSD.org)

Date: 10/01/03

Date: Wed, 1 Oct 2003 00:46:25 -0700

To: database@FreeBSD.org

FWIW, I just updated postgresql-devel to the latest snapshot and as promised, I added the `_ability_` to change postgresql-devel's block sizes to 16K or 32K. The default block size still remains at 8K.

If you have hardware and testing time to burn, I'd be interested in anyone's results if someone decides to perform any kind of benchmarking with differing block sizes. Some have found the bigger block sizes to speed up some types of work loads anywhere from 10-25%, others have found no difference. Any data that people have on this would be of interest to me and I would greatly appreciate hearing about anyone's results. Info that's helpful include what version FreeBSD, file system info, UFS block sizes as well as PG block sizes, and basic info about your app that you used to test (50/50 read writes, 40/60, etc).

Please note that changing block sizes should be done with care and will result in the need to dump/initdb/reload, and adjustment of postgresql.conf values (ex: `effective_cache_size`) that depend on 8K block sizes. Playing with PG's block sizes will create incompatibilities between databases/postgresql-devel and databases/postgresql7 if the block sizes differ. You have been warned.

If you have any questions about this, please take up such discussions on the database@ list. -sc

PS Valid values for `WITH_PGBLOCKSIZE` are "16K" or "32K"

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Sean Chittenden

attached mail follows:

Date: Wed, 1 Oct 2003 00:26:31 -0700

To: ports-committers@FreeBSD.org, cvs-ports@FreeBSD.org, cvs-all@FreeBSD.org

> *seanc 2003/10/01 00:21:41 PDT*

>

> *FreeBSD ports repository*

>

> *Modified files:*

> *databases/postgresql-devel Makefile distinfo pkg-message*

> *pkg-plist*

> *Log:*

> *Update to the latest snapshot for 7.4beta3. Mostly bug fixes, but the*

> *most significant change is the ability to change PostgreSQL's block size*

> *with the nob: WITH_PGBLOCKSIZE=("16K"|"32K"). Release notes:*

>

> <http://developer.postgresql.org/docs/postgres/release.html#RELEASE-DEVEL>

For those with hardware and testing time to burn, I'm particularly interested in knowing if someone notices one of these sizes performs better form them or not. Some have found the bigger block sizes to speed up some types of work loads anywhere from 10-25%, others have found no difference. Any data that people have on this would be of interest to me and I would greatly appreciate hearing about anyones results. Please note that changing block sizes should be done with care and will result in the need to dump/initdb/reload and can create incompatibilities between databases/postgresql-devel and databases/postgresql7.

-sc

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Sean Chittenden

freebsd-performance@freebsd.org mailing list

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

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