Re: Let's make PostgreSQL multi-threaded

From:	Tom Lane <tgl(at)sss(dot)pgh(dot)pa(dot)us>
To:	Heikki Linnakangas <hlinnaka(at)iki(dot)fi>
Cc:	pgsql-hackers <pgsql-hackers(at)postgresql(dot)org>
Subject:	Re: Let's make PostgreSQL multi-threaded
Date:	2023-06-05 15:18:27
Message-ID:	4178104.1685978307@sss.pgh.pa.us
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Thread:	2023-06-05 15:18:27 from Tom Lane <tgl(at)sss(dot)pgh(dot)pa(dot)us>
Lists:	pgsql-hackers

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Heikki Linnakangas <hlinnaka(at)iki(dot)fi> writes:
> I spoke with some folks at PGCon about making PostgreSQL multi-threaded,
> so that the whole server runs in a single process, with multiple
> threads. It has been discussed many times in the past, last thread on
> pgsql-hackers was back in 2017 when Konstantin made some experiments [0].

> I feel that there is now pretty strong consensus that it would be a good
> thing, more so than before. Lots of work to get there, and lots of
> details to be hashed out, but no objections to the idea at a high level.

> The purpose of this email is to make that silent consensus explicit. If
> you have objections to switching from the current multi-process
> architecture to a single-process, multi-threaded architecture, please
> speak up.

For the record, I think this will be a disaster.  There is far too much
code that will get broken, largely silently, and much of it is not
under our control.

                        regards, tom lane
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In response to

- Let's make PostgreSQL multi-threaded at 2023-06-05 14:51:57 from Heikki Linnakangas

Responses

- Re: Let's make PostgreSQL multi-threaded at 2023-06-05 15:33:57 from Heikki Linnakangas
- Re: Let's make PostgreSQL multi-threaded at 2023-06-05 18:51:50 from Andrew Dunstan
- Re: Let's make PostgreSQL multi-threaded at 2023-06-05 21:07:52 from Jonah H. Harris
- Re: Let's make PostgreSQL multi-threaded at 2023-06-08 17:07:48 from Hannu Krosing

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	From	Date	Subject
Next Message	Kirk Wolak	2023-06-05 15:18:54	Re: [BUG] pg_dump does not properly deal with BEGIN ATOMIC function
Previous Message	Tom Lane	2023-06-05 15:15:59	Re: QUAL Pushdown causes ERROR on syntactically and semantically correct SQL Query