

如何参与 PostgreSQL 贡献

李建平

japinli@hotmail.com

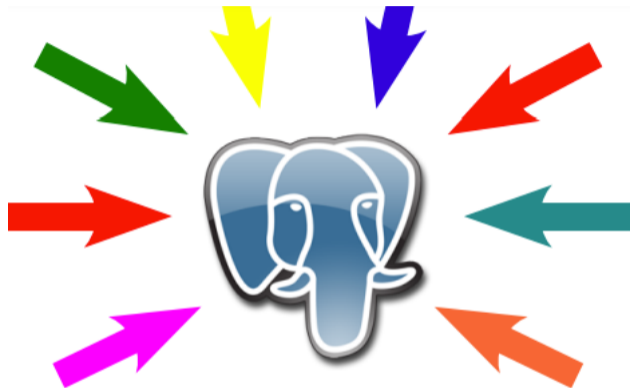
2022.10.22

- 1 为什么参与贡献
- 2 如何参与贡献
- 3 提交 Bugs
- 4 代码审查
- 5 代码贡献

为什么参与贡献

- 1 熟悉 PostgreSQL
- 2 了解内部原理
- 3 自我提升





Josh Berkus 提供了 50 种方法

https://jberkus.github.io/pdf_presos/50_ways.pdf

- 捐献
- 翻译
- 编写文档
- 提交 BUGs
- 代码审查
- 代码贡献

Donate

PostgreSQL Project assets

The PostgreSQL Community Association of Canada (PGCAC) is a special-purpose NPO setup at the request of the PostgreSQL Core Team to manage and protect key project assets such as domain names and trademarks.

Donate to PGCAC

General PostgreSQL efforts

PostgreSQL is an affiliated project of **Software in the Public Interest**. Funds donated to PostgreSQL are used to sponsor general PostgreSQL efforts. These funds are managed by the Fund raising group.

Donate to PostgreSQL

PostgreSQL Europe (PgEU)

PostgreSQL Europe is a European region non profit focusing on the support of other PostgreSQL groups in Europe.

Donate to PgEU

PostgreSQL United States (PgUS)

PostgreSQL United States is a non profit for PostgreSQL in the United States. It focuses on Education, User Groups, and Advocacy.

<https://www.postgresql.org/about/donate/>

常见的贡献方法

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- 翻译
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Servers

The servers that power the services of www.postgresql.org are provided by different companies and organisations around the world.

Name	Provider	Dedicated	Specs	OS	Location	Usage
aws	Amazon Web Services	No	Dynamic	Proprietary	Global	Limited VM hosting
baku	conova communications GmbH	Yes	6 core, 32Gb	Debian GNU/Linux 10	Salzburg, Austria	internal use
barzan	conova communications GmbH	Yes	8 core, 64Gb	Debian GNU/Linux 10	Salzburg, Austria	internal use
poseidon	EDB	Yes	8 core, 384GB	CentOS release 7.x	Wantage, Oxfordshire, UK	RPM build server
postgresql02	EDB	Yes	4 core, 8GB	Red Hat Enterprise Linux Server	St. Louis, Missouri, United States	Virtual machine host, independent of the pginfra platform
ranza	Rackspace	Yes	12 core, 32Gb	Debian GNU/Linux 10	United States	Virtual machine host
regula	Redpill Linpro	Yes	48 core, 256Gb	Debian GNU/Linux 10	Oslo, Norway	Virtual machine host
reiva	Rackspace	Yes	12 core, 32Gb	Debian GNU/Linux 10	United States	Virtual machine host
rigel	Rackspace	Yes	12 core, 32Gb	Debian GNU/Linux 10	United States	Virtual machine host
risa	Rackspace	Yes	12 core, 32Gb	Debian GNU/Linux 10	United States	Virtual machine host
thallon	conova communications GmbH	Yes	32 core, 256Gb	Debian GNU/Linux 10	Salzburg, Austria	Virtual machine host
triona	conova communications GmbH	Yes	16 core, 128Gb	Debian GNU/Linux 10	Salzburg, Austria	Virtual machine host

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• 编写文档

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NLS Status Tables

The tables below shows which areas of the PostgreSQL source are prepared for translation, and the progress of those translations. The numbers are percents of translated messages. By following the links, you can download freshly baked PO files that are merged up against the latest program sources. No PostgreSQL source tree is needed for translation work.

The **highlighted** boxes are the files that have a sufficient fraction of strings translated to be considered for release. Files that are **100%** translated are specially highlighted. All other files will not be part of the PostgreSQL release.

The grey numbers are translations that do not exist yet, but where this web site has initialized the translations files for you with data from the existing translations for the same language.

You can work in several branches. Please see the status information below and follow the announcements on the [mailing list](#) ([subscribe](#)) about when a branch is about to be released.

- [15 branch](#) — complete this now
- [14 branch](#) — maintenance
- [13 branch](#) — maintenance
- [12 branch](#) — maintenance
- [11 branch](#) — maintenance
- [10 branch](#) — maintenance

Other information: [contributor/translator information \(wiki\)](#)

15 branch

Last update: Thu Oct 13 2022 08:22:03 GMT+0800 (China Standard Time)

	af	cs	de	el	es	fa	fr	he	hr	hu	id	it	ja	ka	ko	nb	nl	pl	pt_BR	ro	ru	sk	sl	sv	ta	tr	uk	vi	zh_CN	zh_TW	30
ecpgt (131 strings)		93	100	93	100		100	3	3	1	10	90	100	100	93	2	1	87	100	8	100	11	5	100	2	90	100	90	96	83	18 (95)
ecpglib (32 strings)		100	100	100	100		100						100	100	100			100	100		100			100		100	100	100	100		17 (100)
initdb (198 strings)		79	100	81	100		100	37	5	1	17	38	100	100	79	5	6	37	100	24	100	14	18	100	20	75	100	38	81	24	23 (67)
libpq (265 strings)	19	83	100	92	100		100	63	17	1	3	72	100	100	83	16		60	60	1	100	19	27	100	38	73	99	1	92	66	24 (69)
pg_amcheck (97 strings)		20	100	30	100	1	100	12	2	1	4	15	100	100	22	5		15	28	8	100	9	7	100	2	19	100	4	99	11	10 (98)
pg_archivecleanup (27 strings)		16	100	16	100		100	7			7	22	100	100	57	11	3	37	100	11	100	14	14	100	7	81	100	37	16	14	16 (87)
pg_basebackup (351 strings)		74	100	74	100		100	15	1	1	6	20	100	100	74	3	2	16	14	2	100	6	5	100	1	20	96	20	74	7	19 (65)
pg_checksums (39 strings)		77	100	79	100		100	8	3		10	20	100	100	77	6	1	20	100	15	100	10	10	100	6	66	100	6	79	16	14 (91)
pg_config (43 strings)		97	100	100	100	2	100	83	6	4	18	83	100	100	97	69	9	83	100	29	100	11	32	100	72	83	100	83	100	79	23 (88)
pg_controldata (92 strings)	1	98	100	98	100	21	100	8	3	20	8	83	100	100	98	21	5	77	100	44	100	23	25	100	34	83	100	78	98	44	25 (73)
pg_ctl (100 strings)		98	100	98	100	1	100	78	1	1	8	87	100	100	98	6	5	77	100	27	100	1	26	100	43	87	100	15	99	86	22 (80)

<https://babel.postgresql.org>

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By submitting a bug through this form you agree that all contents of the bug report, including your personal information as listed, will be posted to the **public** [pgsql-bugs](#) mailing list, and archived in the **public** list archives.

Name:

Email:

PostgreSQL version:

Operating system:

Short description:

<https://www.postgresql.org/account/submitbug/>

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Commitfest 2022-11

Search/Filter Shortcuts - New patch

Status summary: Needs review: 131, Waiting on Author: 68, Ready for Committer: 23, Committed: 27, Returned with Feedback: 2, Withdrawn: 4, Rejected: 1, Total: 256.

Active patches

Patch	Status	Ver	Author	Reviewers	Committer	Num cfs	Latest activity	Latest mail
Bug Fixes								
pgbench: using prepared BEGIN statement in a pipeline could cause an error	Needs review	11	Yugo Nagata (yugo.nagata)	Kyotaro Horiguchi (horiguti), Fabien Coelho (calvin), Daniel Gustafsson (dige)		7	2022-10-12 08:10	2022-09-30 01:07
Error "initial slot snapshot too large" in create replication slot	Waiting on Author		Kyotaro Horiguchi (horiguti), Dilip Kumar (dilipkumar)			5	2022-10-12 05:10	2022-10-12 05:10
Fix checkpoint sync request queue problems	Waiting on Author		Thomas Munro (macdiced)			3	2022-10-12 06:11	2022-03-16 03:04
Nonreplayable XLog records by means of overflows and >MaxAllocSize lengths	Waiting on Author	stable	Matthias van de Meent (mmeent)	Michael Paquier (michael-kun)	michael-kun	3	2022-10-05 07:46	2022-10-05 07:46
Remove pgwin32_in_jection(), add lstat() for Windows	Waiting on Author		Thomas Munro (macdiced)			3	2022-10-12 08:11	2022-10-12 04:05
Fix disa_free() to re-bin segment	Needs review		Dongming Liu (inferyes)			3	2022-10-12 05:07	2022-04-06 07:10
Fix recovery conflict SKIUSR1 handling	Needs review		Thomas Munro (macdiced)	Michael Paquier (michael-kun)		3	2022-10-06 06:41	2022-07-26 23:22
Data is copied twice when specifying both child and parent table in publication	Waiting on Author		wei wang (wangwei), Yu Shi (shy.msc)	Amrit Kapila (amritkapila), Tsutomu Osami (tatsatapp), Hou Zhijie (houzj)		3	2022-10-12 05:11	2022-10-05 15:04
Fix assertion failure with barriers in parallel hash join	Ready for Committer	stable	Thomas Munro (macdiced), Melanie Plageman (melanieplageman)	David Geier (gedev)		3	2022-10-12 05:11	2022-06-06 15:01
pg_rewind: warn when checkpoint hasn't happened after promotion	Needs review		James Coleman (jcole1989)	Yogesh Sharma (sharmay)		3	2022-10-12 05:12	2022-07-06 02:38

<https://commitfest.postgresql.org/40/>

常见的贡献方法

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PostgreSQL BuildFarm

Home Status Failures Members Register Typedefns GitHub Email lists

PostgreSQL BuildFarm Status

Show here is the latest status of each farm member for each branch it has reported on in the last 30 days.

Use the farm member link for history of that member on the relevant branch.

Legend: = cassini = debug = gasapi = krbf5 = lvm = nls = openssl = pam = perl = python = tap-tests = tcl = thread-safety = vpath = xml

Alias	System	Branch	HEAD	Status	Flags
vulpes	fedora 27 gcc 7.3.1 ppc64le			00:42 ago OK [56c19f] Config	
morepork	OpenBSD OpenBSD 6.9 clang clang 10.0.1 x64			00:50 ago OK [56c19f] Config	
conchuela	DragonFly BSD DragonFly BSD 6.2.2 gcc gcc 8.3 x86_64			01:00 ago OK [56c19f] Config	
flaviventris	Debian Sid gcc snapshot x86_64			01:05 ago OK [56c19f] Config	
loach	FreeBSD FreeBSD 12.2 clang clang 10.0.1 x86_64			01:11 ago OK [56c19f] Config	
serinus	Debian Sid gcc snapshot x86_64			01:11 ago OK [56c19f] Config	
guilbasaurus	Debian GNU/Linux 11 (bullseye) gcc 10.2.1 x86_64			01:16 ago OK [56c19f] Config	
curculio	OpenBSD 5.9 gcc 4.2.1 x86_64			01:20 ago OK [56c19f] Config	
sidewinder	NetBSD NetBSD 9.2 gcc clang 12.0.1 x86_64			01:30 ago OK [56c19f] Config	
butterflyfish	Photon 2.0 Gcc 6.3.0 x86_64			01:36 ago OK [56c19f] Config	
myna	Photon 3.0 Gcc 6.3.0 x86_64			01:36 ago OK [56c19f] Config	
clam	RHEL 7.1 IBM Advance Toolchain GCC 5.2.1 ((Advance-Toolchain-at9.0) ppc64le			01:36 ago OK [56c19f] Config	
gombessa	OpenBSD 6.8 Clang 10.0.1 amd64			01:37 ago OK [56c19f] Config	
rhinoceros	CentOS Linux 7.1 gcc 4.8.3 20140911 [Red Hat 4.8.3-9] x86_64			01:44 ago OK [56c19f] Config	
plover	OpenBSD 6.9 clang 10.0.1 amd64			01:47 ago OK [56c19f] Config	
warbier	Freebsd 14 Current Clang 13.0.0 x86_64			02:02 ago OK [56c19f] Config	
jay	openSUSE openSUSE 15.3 clang clang 11 x86_64			02:03 ago OK [56c19f] Config	
mule	Debian 11.2 gcc 10.2.1 amd64			02:06 ago OK [56c19f] Config	
peripatus	FreeBSD HEAD clang 14.0.5 X86_64			02:16 ago OK [56c19f] Config	

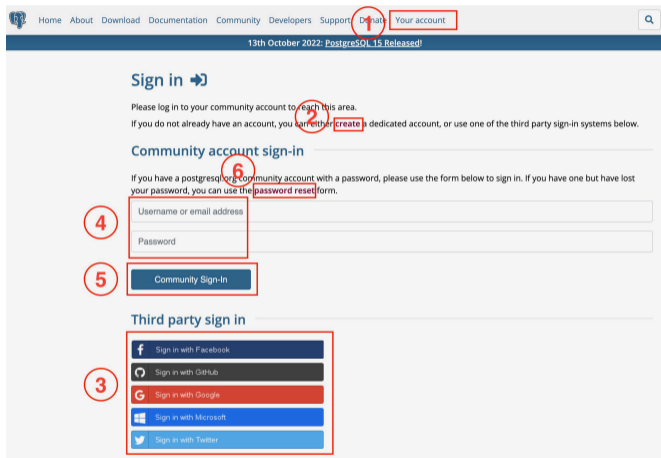
<https://buildfarm.postgresql.org>

- PostgreSQL 账号

- 账号管理

- 订阅邮件列表

- 邮件列表说明



<https://www.postgresql.org/account/>

- PostgreSQL 账号
- 账号管理
- 订阅邮件列表
- 邮件列表说明

New Account

To sign up for a free community account, enter your preferred userid and email address. Note that a community account is only needed if you want to submit information - all content is available for reading without an account. A confirmation email will be sent to the specified address, and once confirmed a password for the new account can be specified.

Username:

First name:

Last name:

Email:

Repeat email:

Captcha:

Sign up

<https://www.postgresql.org/account/signup/>

- PostgreSQL 账号

- 账号管理

- 订阅邮件列表

- 邮件列表说明

The screenshot shows the 'Edit User Profile' page for a PostgreSQL account. The page is divided into a 'Quick Links' sidebar and a main profile editing area. Red circles and boxes highlight specific elements:

- 1**: A red box around the 'Quick Links' sidebar, which includes links like 'Your account', 'Profile', 'Mailing List', 'Subscriptions', 'Submitted data', 'News Articles', 'Events', 'Products', 'Professional Services', 'Organisations', 'Change password', and 'Logout'.
- 2**: A red circle around the 'Primary Email Address' dropdown menu, which currently shows 'japinli@hotmail.com'.
- 3**: Red circles around the 'First Name' and 'Last Name' input fields, which contain 'Japin' and 'Li' respectively.
- 4**: A red circle around the 'SSH key' text area, which is currently empty.
- 5**: A red circle around the 'New email' and 'Repeat email' input fields, which are currently empty.

Other visible elements include the 'Username' field with 'japin', the 'Block OAuth login' checkbox, and the 'Secondary email addresses' section with an 'Add new email address' form.

<https://www.postgresql.org/account/profile/>

- PostgreSQL 账号

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The screenshot displays the PostgreSQL lists management interface. At the top, the PostgreSQL logo and tagline 'The world's most advanced open source database' are visible. The main content is divided into several sections:

- Your subscriptions:** A table showing the user's current subscriptions. The table has columns for the email address, mail delivery status, and actions. Three subscriptions are listed: 'pgsql-advocacy@lists.postgresql.org', 'pgsql-bugs@lists.postgresql.org', and 'pgsql-hackers@lists.postgresql.org', all with 'Enabled' mail delivery.
- Subscribe:** A section with two notes and a form. Note 1 asks to read the Archive Policy. Note 2 warns against using e-mail accounts protected by mail-back anti-spam systems. The form includes a 'List' dropdown (set to 'pgsql-admin'), an 'Address' dropdown (set to 'japinli@hotmail.com'), and a 'Subscribe' button.
- Manage email addresses:** A table showing the user's email addresses for the lists. One address, 'japinli@hotmail.com', is listed with a 'Confirmed' status and a 'Block' button in the 'Actions' column.
- Global configuration:** A section with a note and a checkbox. The checkbox is checked and labeled 'Don't receive an extra copy of mails when listed in To or CC fields'. Below it is a 'Save' button.
- Log out:** A section with a 'Log out' button.

<https://lists.postgresql.org/manage/>

- PostgreSQL 账号
- 账号管理
- 订阅邮件列表
- 邮件列表说明

- `pgsql-general`
- `pgsql-performance`
- `pgsql-sql`
- `pgsql-bugs`
- `pgsql-docs`
- `pgsql-hackers`
- `pgsql-translators`
- `pgsql-zh-general`

<https://www.postgresql.org/list/>

- 页面提交 (推荐)

- 安全相关 Bugs

- 邮件列表

Submit Bug Report 📄

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Name:

Email:

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Name:

Email:

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Short description:

Re: Added schema level support for publication.

From: Amit Kapila <amit@kapila16.atgmail(dot)com>
To: jlapin <jlapin@hotmail(dot)com>
Cc: Bharath Rupireddy <bharath(dot)rupireddyforpostgresql(at)gmail(dot)com>, vignesh C <vignesh21(at)gmail(dot)com>, PostgreSQL Hackers <pgsql-hackers(at)lists(dot)postgresql(dot)org>
Subject: Re: Added schema level support for publication.
Date: 2021-01-11 11:57:22
Message-ID: CAAtK1L5TqjNHCyP83GVuEriQw4xJ32Myv-h4CjKxLew@mail.gmail.com
Views: [Raw Message](#) | [Whole Thread](#) | [Download mbox](#) | [Resend email](#)
Thread: 2021-01-11 11:57:22 from Amit Kapila <amit@kapila16.atgmail(dot)com>
Lists: [pgsql-hackers](#)

On Mon, Jan 11, 2021 at 4:29 PM Li Japin <japinli(at)hotmail(dot)com> wrote:
>
>
> On Jan 11, 2021, at 5:06 PM, Bharath Rupireddy <bharath(dot)rupireddyforpostgresql(at)gmail(dot)com> wrote:
>
> On Mon, Jan 11, 2021 at 1:29 PM Japin <japinli(at)hotmail(dot)com> wrote:
>
> > sorry, I misunderstood. After the test (ce6a71fa530). I found that if we do not insert data
> > between step (5) and (6), it will not ship the new records, however, if we insert
> > data between step (5) and (6), it will ship the new records.
>
>
> > It might be a bug.
>
>
Can you check pg_publication_rel and pg_subscription_rel? Also, this is not related to the feature proposed in this thread, so it is better to start a new thread to conclude whether this is a bug or not.

--
With Regards,
Amit Kapila.

Logical Replication - behavior of ALTER PUBLICATION .. DROP TABLE and ALTER SUBSCRIPTION .. REFRESH PUBLICATION

From: Bharath Rupireddy <bharath(dot)rupireddyforpostgresql(at)gmail(dot)com>
To: PostgreSQL Hackers <pgsql-hackers(at)lists(dot)postgresql(dot)org>
Subject: Logical Replication - behavior of ALTER PUBLICATION .. DROP TABLE and ALTER SUBSCRIPTION .. REFRESH PUBLICATION
Date: 2021-01-11 13:21:15
Message-ID: CAJ1ACV-0URpc2ScrYgtpu489y0H1q40Zal.430U7qjHJ_xv@mail.gmail.com
Views: [Raw Message](#) | [Whole Thread](#) | [Download mbox](#) | [Resend email](#)
Thread: 2021-01-11 13:21:15 from Bharath Rupireddy <bharath(dot)rupireddyforpostgresql(at)gmail(dot)com>
Lists: [pgsql-hackers](#)

Hi,
While providing thoughts on the design in [1], I found a strange behaviour with the \$subjct. The use case is shown below as a sequence of steps that need to be run on publisher and subscriber to arrive at the strange behaviour. In step 5, the table is dropped from the publication and in step 6, the refresh publication is run on the subscriber, from here onwards, the expectation is that no further inserts into the publisher table have to be replicated on to the subscriber, but the opposite happens i.e. the inserts are still replicated to the subscriber. IOW as a bug. Let me know if I'm missing anything.
Thoughts?

● 页面提交 (推荐)

● 安全相关 Bugs

● 邮件列表

- 审查流程

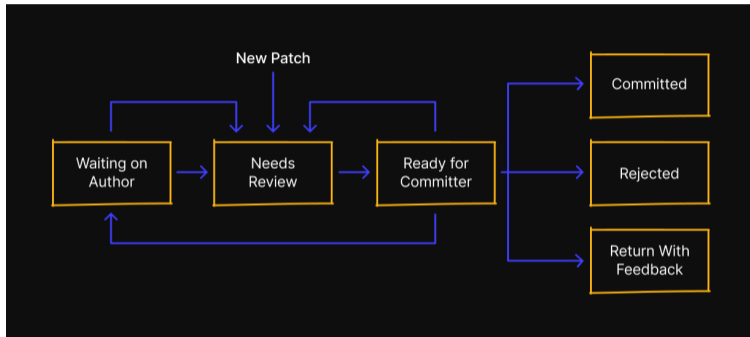
- 查找功能

- 代码审查

- 文档

- 功能

- 测试反馈



图片源自 State of PostgreSQL: How to Contribute to PostgreSQL and the Community

● 审查流程

● 查找功能

● 代码审查

● 文档

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Commitfest 2022-11

Search/Filter Shortcuts New patch

Status summary: Needs review: 129, Waiting on Author: 70, Ready for Committer: 23, Committed: 22, Withdrawn: 4, Rejected: 1, Returned with Feedback: 2, Total: 251.

Active patches

Patch	Status	Ver	Author	Reviewers	Committer	Num cls	Latest activity	Latest mail
Bug Fixes								
pgbench: using prepared BEGIN statement in a pipeline could cause an error	Needs review	02	Yugo Nagata (yugo.nagata)	Kyotaro Horiguchi (horiguchi), Fabien Coelho (calvix), Daniel Gustafsson (dga)		7	2022-10-12 06:10	2022-09-30 01:07
Error "initial slot snapshot too large" in create replication slot	Waiting on Author		Kyotaro Horiguchi (horiguchi), Dilip Kumar (dilip.kumar)			5	2022-10-12 05:10	2022-10-12 05:10
Fix checkpoint sync request queue problems	Waiting on Author		Thomas Muro (tracdio)			3	2022-10-12 05:11	2022-03-16 03:04
Nonplayable XLog records by means of overflow and >MaxAllocSize lengths	Waiting on Author	stable	Matthias van de Meent (rmeent)	Michael Paquier (michael-k)	michael-kun	3	2022-10-05 07:46	2022-10-05 07:46
Remove pgwin32_is_junction, add test() for Windows	Waiting on Author		Thomas Muro (tracdio)			3	2022-10-12 06:11	2022-10-12 04:06
Fix dsa_head to re-on segment	Needs review		Dangming Liu (interyes)			3	2022-10-12 05:07	2022-04-06 07:10
Fix recovery conflict SIGHUP1 handling	Needs review		Thomas Muro (tracdio)	Michael Paquier (michael-k)		3	2022-10-06 06:41	2022-07-26 23:22
Data is copied twice when specifying both child and parent table in publication	Waiting on Author		wai wang (wangwei), Yu Shi (shy1984)	Ami Kapla (amikapla), Takamichi Osurni (tataapp), Hou Zhijie (houz)		3	2022-10-12 05:11	2022-10-05 15:04
Fix assertion failure with barriers in parallel hash join	Ready for Committer	stable	Thomas Muro (tracdio), Melanie Plageman (melanieplageman)	David Geier (davidg)		3	2022-10-12 05:11	2022-06-06 15:01
pg_newid: warn when checkpoint hasn't happened after promotion	Needs review		James Coleman (jcole1989)	Yogesh Sharma (jsharma)		3	2022-10-12 05:12	2022-07-06 03:38
pg_visibility's pg_check_visible yields false positive when working in parallel with autovacuum	Waiting on Author	01	Daniel Shekolev (shekolev)			3	2022-10-12 05:15	2022-10-12 05:14
pg_stat_activity: avoid showing state=active with wait_event=ClientRead	Waiting on Author	stable	Yura Sokolov (junny_hacor), Mikhail Zhilin (mishka-af-pgpro)	Justin Prybyl (jprybyl), Karan Prya (karnap)		2	2022-10-12 07:46	2022-07-09 01:02

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pgbench: using prepared BEGIN statement in a pipeline could cause an error

pgbench: using prepared BEGIN statement in a pipeline could cause an error

Buttons: Edit, Comment/Review, Change Status

Title	pgbench: using prepared BEGIN statement in a pipeline could cause an error
Topic	Bug Fixes
Created	2021-07-16 14:35:27
Last modified	2022-10-12 05:10:02 (1 day, 22 hours ago)
Latest email	2022-09-30 01:07:43 (2 weeks ago)
Status	2022-11: Ready to merge 2022-09: Moved to next CF 2022-07: Moved to next CF 2022-03: Moved to next CF 2022-01: Moved to next CF 2021-11: Moved to next CF 2021-09: Moved to next CF
Target version	15
Authors	Yugo Nagata (yugo.nagata)
Reviewers	Kyotaro Horiguchi (horiguchi), Fabien Coelho (calvin), Daniel Gustafsson (dga) Become reviewer
Committer	
Links	
Emails	pgbench: using prepared BEGIN statement in a pipeline could cause an error <> First at 2021-07-16 05:30:13 by Yugo NAGATA <nagata at srcos.co.jp> Latest at 2022-09-30 01:07:43 by Yugo NAGATA <nagata at srcos.co.jp> Latest attachment (16-pgbench-prepare.patch) at 2022-09-30 01:07:43 from Yugo NAGATA <nagata at srcos.co.jp> + Attach thread
History	2021-11-04 12:11:37 Daniel Gustafsson (d.gustafsson) Changed targetversion to 15 2021-10-04 07:31:24 Jaime Casanova (casanova) Closed in commitfest 2021-09 with status: Moved to next CF 2021-07-18 14:35:44 Yugo Nagata (yugo.nagata) Changed authors to Yugo Nagata (yugo.nagata)

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pgbench: using prepared BEGIN statement in a pipeline could cause an error

From: Yugo NAGATA <nagata@tsraoss(dot)co(dot)jp> **当前邮件标识**
To: pgsq-hackers@postgresql.org
Subject: pgbench: using prepared BEGIN statement in a pipeline could cause an error
Date: 2021-07-16 06:30:13
Message-ID: 20210716153013.fc53b1c780b06fcc07a7f0d@sraoss.co.jp
Views: [Raw Message](#) | [Whole Thread](#) | [Download mbox](#) | [Resend email](#)

Thread: [2021-07-16 06:30:13 from Yugo NAGATA <nagata@tsraoss\(dot\)co\(dot\)jp>](#)

Lists: [pgsq-hackers](#)

Hello, **查看所有邮件** **选择查看指定发件人的邮件**

I found that using "BEGIN ISOLATING LEVEL SERIALIZABLE" in a pipeline with prepared statement makes pgbench abort.

```
$ cat pipeline.sql
\startpipeline
begin isolation level repeatable read;
select 1;
end;
\endpipeline

$ pgbench -f pipeline.sql -M prepared -t 1
pgbench (15dev1)
starting vacuum...end.
pgbench: error: client 0 script 0 aborted in command 4 query 0:
transaction type: pipeline.sql
scaling factor: 1
query modes: prepared
number of clients: 1
number of threads: 1
number of transactions per client: 1
number of transactions actually processed: 0/1
pgbench: fatal: Run was aborted; the above results are incomplete.
```

The error that occurred in the backend was
"ERROR: SET TRANSACTION ISOLATION LEVEL must be called before any query".

- After investigating this, now I've got the cause as below.
1. The commands in the script are executed in the order. First, pipeline mode starts at \startpipeline.
 2. Parse messages for all SQL commands in the script are sent to the backend because it is first time to execute them.
 3. An implicit transaction starts, and this is not committed yet because Sync message is not sent at that time in pipeline mode.
 4. All prepared statements are sent to the backend.
 5. After processing \endpipeline, Sync is issued and all sent commands are executed.
 6. However, the BEGIN doesn't start new transaction because the implicit transaction has already started. The error above occurs because the snapshot was already created before the BEGIN command.

We can also see the similar error when using "BEGIN DEFERRABLE".

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```
diff --git a/src/bin/pgbench/pgbench.c b/src/bin/pgbench/pgbench.c
index a1a3541fe..12a248fe4 100644
--- a/src/bin/pgbench/pgbench.c
+++ b/src/bin/pgbench/pgbench.c
@@ -1870,6 +1870,30 @@ chooseScript(TState *thread)
     return i - 1;
 }

+/* Prepare SQL commands in the chosen script */
+static void
+prepareCommands(CState *st)
+{
+    int          i;
+    Command     **commands = sql_script[st->use_file].commands;
+
+    for (i = 0; commands[i] != NULL; i++)
+    {
+        PGresult  *res;
+        char       name[MAX_PREPARE_NAME];
+
+        if (commands[i]->type != SQL_COMMAND)
+            continue;
+        preparedStatementName(name, st->use_file, i);
+        res = PQprepare(st->con, name,
+                       commands[i]->argv[0], commands[i]->argc - 1, NULL);
+        if (PQresultStatus(res) != PQRES_COMMAND_OK)
+            pg_log_error("k", PQerrorMessage(st->con));
+        PQclear(res);
+    }
+    st->prepared[st->use_file] = true;
+}
+
+/* Send a SQL command, using the chosen querymode */
+static bool
+sendCommand(CState *st, Command *command)
+{
+    const char *params[MAX_ARGS];
+
+    if (!st->prepared[st->use_file])
+    {
+        int          i;
+        Command     **commands = sql_script[st->use_file].commands;
+
+        for (i = 0; commands[i] != NULL; i++)
+        {
+            PGresult  *res;
+
+            if (commands[i]->type != SQL_COMMAND)
+                continue;
+            preparedStatementName(name, st->use_file, i);
+            if (PQpipelineStatus(st->con) == PQ_PIPELINE_OFF)
+            {
+                res = PQprepare(st->con, name,
+                               commands[i]->argv[0], commands[i]->argc - 1, NULL);
+                if (PQresultStatus(res) != PQRES_COMMAND_OK)
+                    pg_log_error("k", PQerrorMessage(st->con));
+                PQclear(res);
+            }
+        }
+    }
+}
```


A brief SGML tutorial

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```
diff --git a/doc/src/sgml/ref/pg_waldump.sgml b/doc/src/sgml/ref/pg_waldump.sgml
index 5735a161ce..c953703bc8 100644
--- a/doc/src/sgml/ref/pg_waldump.sgml
+++ b/doc/src/sgml/ref/pg_waldump.sgml
@@ -100,6 +100,29 @@ PostgreSQL documentation
     </listitem>
   </varlistentry>

   <varlistentry>
     <term><option>-k <replaceable>block</replaceable></option></term>
     <term><option>--block=<replaceable>block</replaceable></option></term>
     <listitem>
       <para>
         Display only records touching the given block. (Requires also
         providing the relation via <option>--relation</option>.)
       </para>
     </listitem>
   </varlistentry>

   <varlistentry>
     <term><option>-l <replaceable>tbl</replaceable>/<replaceable>db</replaceable>/<replaceable>rel</replaceable></option></term>
     <term><option>--relation=<replaceable>tbl</replaceable>/<replaceable>db</replaceable>/<replaceable>rel</replaceable></option></term>
     <listitem>
       <para>
         Display only records touching the given relation. The relation is
         specified via tablespace oid, database oid, and relfilenode separated
         by slashes.
       </para>
     </listitem>
   </varlistentry>

   <varlistentry>
     <term><option>-n <replaceable>limit</replaceable></option></term>
     <term><option>--limit=<replaceable>limit</replaceable></option></term>
```

Installation from Source Code

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```
$ git clone https://git.postgresql.org/git/postgresql.git
$ cd postgresql
$ git apply ../0001-Add-relation-block-filtering-to-pg_waldump.patch
$ mkdir build && cd build
$ ../configure --prefix=$PWD/pg --enable-tap-tests ...
$ make world && make check-world && make install-world
$ # 有时由于网络原因, 构建文档的时候会失败
$ # 可以忽略文档的编译
$ # make install && (cd contrib; make install) && make check-world
$ cat <<END > pg-env.sh
export PGHOME=$PWD/pg
export PGDATA=$PGHOME/pgdata
export PGPORT=5643
export PATH=$PGHOME/bin:$PATH
export LD_LIBRARY_PATH=$PGHOME/lib:$LD_LIBRARY_PATH
END
$ source pg-env.sh
$ initdb
$ pg_ctl -l log start
$ pg_waldump ...
```

Mailing List Etiquette FAQ

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```
02/25/2022  S      pgsql-hack Bharath Rupireddy      Re: [PATCH] add relation and block-level filtering to pg_waldump
02/25/2022  S      Japin Li      Re: [PATCH] add relation and block-level filtering to pg_waldump
-----F1 *mu4e-headers* 29K (614,0) (mu4e-headers Projectile EditorConfig (*) Undo-Tree yas-company ivy WK) maildir
From: Japin Li <japinli@hotmail.com>
To: David Christensen <david.christensen@crunchydata.com>
Cc: pgsql-hackers@postgresql.org, pgsql-hackers@lists.postgresql.org
Subject: Re: [PATCH] add relation and block-level filtering to
pg_waldump
Flags: seen
Date: Fri Feb 25 21:08:20 2022
Maildir: /hotmail/Sent

On Fri, 25 Feb 2022 at 20:48, David Christensen <david.christensen@crunchydata.com> wrote:
>> Cool. I think we can report an error instead of reading wal files,
>> if the tablespace, database, or relation is invalid. Does there any
>> WAL record that has invalid tablespace, database, or relation OID?
>
> The only sort of validity check we could do here is range checking for the underlying data types
> (which we certainly could/should add if it's known to never be valid for the underlying types);

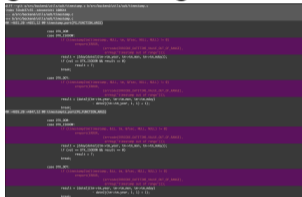
The invalid OID I said here is such as negative number and zero, for those
parameters, we do not need to read the WAL files, since it always invalid.

> non-existence of objects is a no-go, since that depends purely on the WAL range you are
> looking at and you'd have to, you know, scan it to see if it existed before marking as invalid. :)
>

Agreed.

--
Regrads,
Japin Li.
```

- 编写代码 (Open Items)
- `git diff` & `git format-patch`



1 创建 Patch

2 创建 Commitfest

3 审查 & 修改

• 发送 Patch

Duplicate function call on timestamp2tm

From: U.Japin <japinli@hotmail.com>
To: "pgsql-hackers@postgresql.org" <pgsql-hackers@postgresql.org>
Subject: Duplicate function call on timestamp2tm
Date: 2019-12-12 14:34:20
Message-ID: <562706A837762CA45DB94CA7001EA8B6550@SG2P06A83776.apcprd06.prod.outlook.com>
Views: [Raw Message](#) | [Whole Thread](#) | [Download mbox](#) | [Resend email](#)
Thread: 2019-12-12 14:34:20 from U.Japin <japinli@hotmail.com>
Lists: [pgsql-hackers](#)

Hi,

I find there is a duplicate function call on timestamp2tm in timestamp2tm_part and timestamp_part.
Is that necessary? I remove the latter one and it also works.

Best,
Japin.

Attachment	Content-Type	Size
remove-duplicate-timestamp2tm-function-call.patch	application/octet-stream	1.7 KB

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Commitfest 2022-11

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New patch

Description:

Topic:

Specify thread msgid:
 [Find thread](#)

[Create patch](#)

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PostgreSQL Patch Tester

[Current commitfest](#) | [Next commitfest](#) | [FAQ](#)

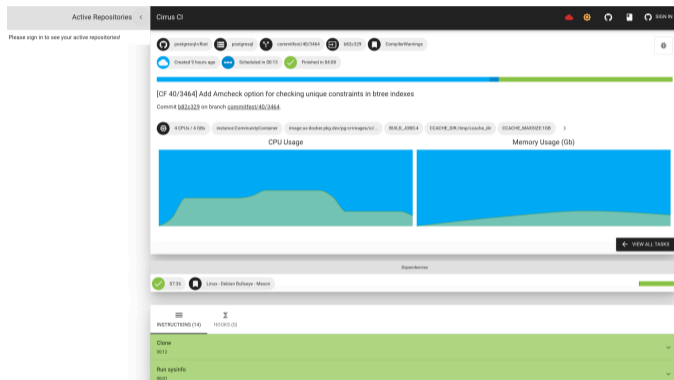
Here lives an experimental bot that converts email threads that are registered in the [Commitfest system](#) into [branches on Github](#), and collates test results from [Cirrus CI](#).

Ready for Committer

40/3464	Add Amcheck option for checking unique constraints in btree indexes	Anastasia Lubennikova , Maxim Orlov , Pavel Borotov	» H	🟢🟢🟢🟢🟢🟢
40/3405	Add connection active_idle time to pg_stat_activity	Rafia Sabih , Sergey Dudoladov	» H	🟢🟢🟢🟢🟢🟢
40/3895	Avoid to handle FORCE_NOT_NULL/FORCE_NULL options when COPY TO	Mingli Zhang	» H	🟢🟢🟢🟢🟢🟢
40/2601	Fast COPY FROM command for the foreign tables	Andrey Leokhov	» H	🔴
40/2897	Faster pglz compression	Andrey Borodin , Владимир Девкоп	» H	🟢🟢🟢🟢🟢🟢
40/3662	Fix assertion failure with barriers in parallel hash join	Thomas Munro , Melanie Plageman	» H	🟢🟢🟢🟢🟢🟢
40/3779	Improve description of XLOG_RUNNING_XACTS	Masahiko Sawada	» H	🟢🟢🟢🟢🟢🟢
40/3271	KnownAssignedXidsGetAndSetXmin performance	Michail Nikolaev	» H	🟢🟢🟢🟢🟢🟢
40/2903	Parallel Hash Full Join	Melanie Plageman	» H	🟢🟢🟢🟢🟢🟢

<http://cfbot.cputube.org/>

- 1 创建 Patch
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- 3 审查 & 修改



1 创建 Patch

2 创建 Commitfest

3 审查 & 修改

From: Tom Lane <tgl(at)sss(dot)pgh(dot)pa(dot)us>
To: Li Japin <japinli(at)hotmail(dot)com>
Cc: "pgsql-hackers(at)postgresql(dot)org" <pgsql-hackers(at)postgresql(dot)org>
Subject: Re: Duplicate function call on timestamp2tm
Date: 2019-12-12 14:41:18
Message-ID: 4024.1576161678@sss.pgh.pa.us
Views: [Raw Message](#) | [Whole Thread](#) | [Download mbox](#) | [Resend email](#)
Lists: [pgsql-hackers](#)

Li Japin <japinli(at)hotmail(dot)com> writes:
> I find there is a duplicate function call on timestamp2tm in timestamptz_part and timestamp_part.
> Is that necessary? I remove the latter one and it also works.

Huh. I do believe you're right. Must be an ancient copy-and-paste mistake?

regards, tom lane

From: Tom Lane <tgl(at)sss(dot)pgh(dot)pa(dot)us>
To: Li Japin <japinli(at)hotmail(dot)com>
Cc: Greg Stark <stark(at)mit(dot)edu>, "pgsql-hackers(at)postgresql(dot)org" <pgsql-hackers(at)postgresql(dot)org>
Subject: Re: Duplicate function call on timestamp2tm
Date: 2019-12-12 15:13:17
Message-ID: 5511.1576163597@sss.pgh.pa.us
Views: [Raw Message](#) | [Whole Thread](#) | [Download mbox](#) | [Resend email](#)
Lists: [pgsql-hackers](#)

I wrote:
> Li Japin <japinli(at)hotmail(dot)com> writes:
>> I find there is a duplicate function call on timestamp2tm in timestamptz_part and timestamp_part.
>> Is that necessary? I remove the latter one and it also works.

> Huh. I do believe you're right. Must be an ancient copy-and-paste mistake?

Ah, after looking in the git history, not quite that ancient: this duplication dates to commit 258ee1b63, which moved these switch cases from the "if (type == RESERV)" switches in the same functions. In the previous coding these function calls were actually necessary, but here they're redundant. I guess that's just additional ammunition for Greg's point that the keywords were misclassified ;-).

I see from the code coverage report that we're missing coverage for these and some other paths in timestamp[tz]_part. Think I'll go add some more test cases while I'm at it.

Thanks again for the report!

资源汇总

<http://cfbot.cputube.org/>

<https://babel.postgresql.org>

<https://buildfarm.postgresql.org>

<https://commitfest.postgresql.org/>

https://wiki.postgresql.org/wiki/Development_information

https://wiki.postgresql.org/wiki/PostgreSQL_15_Open_Items

https://wiki.postgresql.org/wiki/PostgreSQL_Related_Slides_and_Presentations

<https://www.postgresql.org/account/submitbug/>

<https://www.postgresql.org/list/>

