

Maintaining 8000, erm, 9000 Packages

Large Scale Package QA in the PostgreSQL Ecosystem

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PostgreSQL in Debian

Simple plan:

- There is Debian
- There is PostgreSQL
- Package it
- Done!



PostgreSQL in Debian

Reality is more complex

- There is Debian sid, jessie, wheezy, squeeze
- There is PostgreSQL 9.4, 9.3, 9.2, 9.1, 9.0
- PostgreSQL major releases have incompatible on-disk format
- Upgrading needs both versions installed in parallel (or lots of disk space and a complicated plan)

postgresql-common

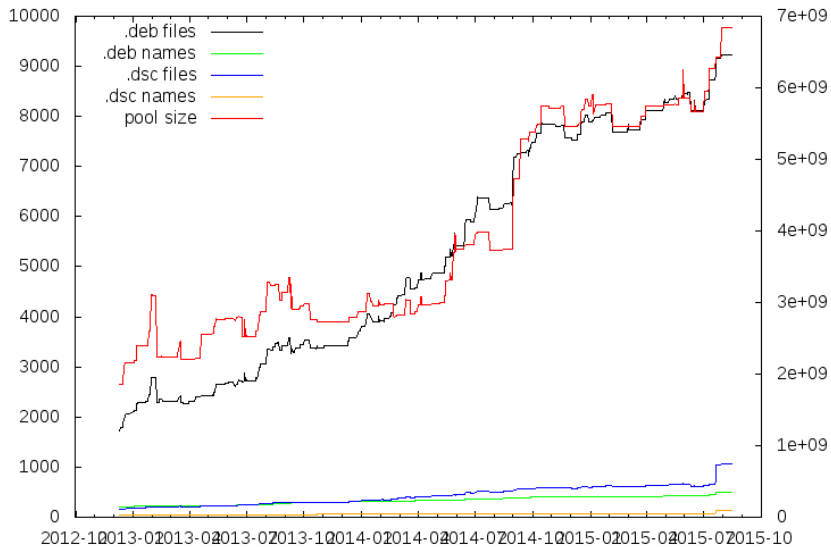
- Solution: make packages for 9.4 9.3 ... co-installable
- postgresql-common takes care of creating database clusters in the correct locations
- Still, Debian jessie has 9.4 only (wheezy has 9.1, squeeze had 8.4)
 - ▶ Users want to try new PostgreSQL version
 - ▶ Users want to upgrade OS without upgrading PostgreSQL

apt.postgresql.org

- Apt repository hosting packages for all PostgreSQL major releases built for all Debian (and Ubuntu) releases
- Somewhat a superset of what backports would do
- 6 PostgreSQL releases:
8.4 9.0 9.1 9.2 9.3 9.4 (9.5 9.6)
- 7 Debian and Ubuntu releases
squeeze wheezy jessie sid precise trusty utopic
- 2 architectures
amd64 i386
- **$6 \times 7 \times 2 = 84$ targets**
- About 130 source packages
- Some are built “only” per distribution/architecture (14 targets)
- Extension modules depend on the PostgreSQL version as well (84 targets)



Statistics



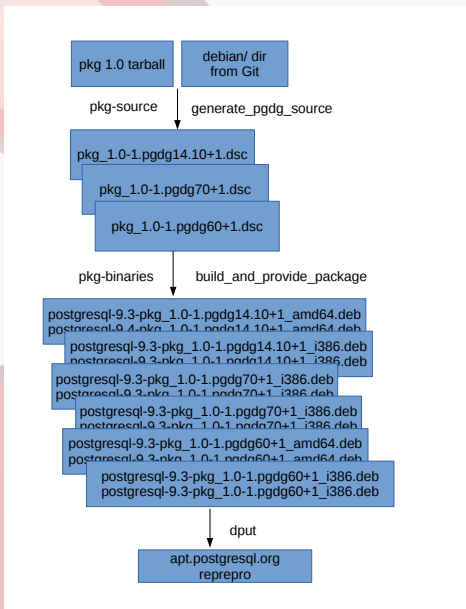
Packages and Tests



Simple packages



PostgreSQL extension packages



Quality Assurance

- No one is going to test 9000 packages
- We need testsuites
- PostgreSQL has regression tests
- Many extensions have regression tests
- *postgresql-common* has a testsuite on top of the PostgreSQL packages



Quality Assurance

- No one is going to test 9000 testsuites
- We need automation



Jenkins

- Continuous Integration Server
- Takes your code and compiles it all the time
- More generally a framework for running scripts
- Matrix jobs with “configurations” (distribution, architecture)
- “source” jobs take a tarball and a VCS with a debian/ directory to build source packages per distribution
- “binaries” jobs take source packages and build (many) binary packages
- Thanks to Mika Prokop and his jenkins-debian-glue!

Dashboard [jenkins] x +

https://pgdgbuild.dus.dg-i.net/jenkins/

Jenkins Christoph Berg

Jenkins [ENABLE AUTO REFRESH](#)

New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

Credentials

My Views

Global configuration

Dependency Graph

Build Queue -

No builds in the queue.

Build Executor Status -

1 Idle

2 Idle

3 Idle

4 Idle

PGDG Apt Repository Buildhost [add description](#)

All Auxiliary Binaries Binaries-Beta Binaries-Devel PostgreSQL Sources +

S	W	Name ↓	Last Success	Last Failure	Last Duration	
●	☁	apgdiff-binaries	1 yr 1 mo - #5	1 yr 1 mo - #4	3 min 4 sec	🔄
●	☀	apgdiff-source	1 yr 1 mo - #2	N/A	32 sec	🔄
●	☀	apt.postgresql.org	4 hr 17 min - #206	1 day 1 hr - #195	3.8 sec	🔄
●	☁	autopkgtest-binaries	4 mo 0 days - #25	4 mo 4 days - #24	8 min 18 sec	🔄
●	☀	autopkgtest-source	4 mo 0 days - #23	N/A	15 sec	🔄
●	☀	barman-binaries	20 hr - #18	N/A	1 min 47 sec	🔄
●	☀	barman-source	20 hr - #25	N/A	3 min 54 sec	🔄
●	☀	check-postgres-binaries	1 yr 4 mo - #25	N/A	40 min	🔄
●	☀	check-postgres-source	1 yr 4 mo - #19	N/A	27 sec	🔄
●	☁	cowbuilder-update	22 hr - #26	1 day 0 hr - #25	6 min 27 sec	🔄
●	☀	dput	13 hr - #970	19 hr - #965	12 sec	🔄
●	☁	gdal-binaries	1 yr 5 mo - #4	1 yr 0 mo - #5	1 hr 13 min	🔄
●	☀	gdal-source	1 yr 0 mo - #5	N/A	19 sec	🔄
●	☁	geos-binaries	1 yr 6 mo - #3	1 yr 6 mo - #2	27 min	🔄
●	☀	geos-source	1 yr 6 mo - #3	N/A	17 sec	🔄
●	☀	gitcache-postgresql	14 hr - #318	N/A	1.9 sec	🔄

The screenshot shows the Jenkins web interface for the 'orafce-source' project. The browser address bar shows the URL 'https://pgdgbuild.dus.dg-i.net/jenkins/jc'. The Jenkins header includes the logo, a search bar, and the user name 'Christoph Berg'. The breadcrumb trail is 'Jenkins > orafce-source'. On the left sidebar, there are navigation links: 'Back to Dashboard', 'Status', 'Changes', 'Workspace', 'Build with Parameters', 'Delete Multi-configuration project', 'Configure', and 'Dependency Graph'. The main content area is titled 'Project orafce-source' and contains the following information:

- Project orafce-source**: Build Debian source package of orafce from git. Do not edit this job through the web interface, it is generated via jenkins-job-builder!
- [edit description](#) button
- Disable Project** button
- Configurations**: A row of colored circles representing different operating system configurations: [sid](#), [jessie](#), [wheezy](#), [squeeze](#), [utopic](#), [trusty](#), [precise](#), and [lucid](#).
- Downstream Projects**: A single entry [orafce-binaries](#).
- Build History**: A table with columns for build number, date, and time. It shows three builds: #20 (Jan 26, 2015 4:53:57 PM), #19 (Jan 26, 2015 4:53:24 PM), and #17 (Jan 7, 2015 3:00:58 PM). There are also links for 'RSS for all' and 'RSS for failures'.

At the bottom of the page, there is a footer with the following text: 'Page generated: Jan 27, 2015 2:53:56 PM', 'REST API', 'Jenkins ver. 1.580.2', 'SCM Sync status: Last operation @ Mon Jan 26 23:19:16 CET 2015', and a URL to the last failed build: 'https://pgdgbuild.dus.dg-i.net/jenkins/job/orafce-source/lastFailedBuild/'.

orafce Binaries

orafce-binaries [jenki... x]

https://pgdgbuild.dus.dg-i.net/jenkins/jc

Jenkins [search](#) Christoph Berg

Jenkins > orafce-binaries > [ENABLE AUTO REFRESH](#)

[Back to Dashboard](#)

[Status](#)

[Changes](#)

[Workspace](#)

[Build with Parameters](#)

[Delete Multi-configuration project](#)

[Configure](#)

[Dependency Graph](#)

[Build History](#) [trend](#)

- #19 [Jan 26, 2015 4:54:48 PM](#)
- #18 [Jan 7, 2015 3:01:22 PM](#)

[RSS for all](#) [RSS for failures](#)

Project orafce-binaries

Build Debian binary package of orafce.
Do not edit this job through the web interface, it is generated via jenkins-job-builder!

[edit description](#)

[Disable Project](#)

Configuration Matrix	amd64	i386
sid		
jessie		
wheezy		
squeeze		
utopic		
trusty		
precise		
lucid		

[Latest Test Result](#) (no failures)

Upstream Projects

[orafce-source](#)

orafce Buildresult

The screenshot shows a Jenkins web interface. At the top, the browser address bar displays 'https://pgdgbuild.dus.dg-i.net/jenkins/jc'. The Jenkins header includes the logo, a search bar, and the user name 'Christoph Berg'. The breadcrumb trail is 'Jenkins > orafce-binaries > #19 > amd64,sid'. On the right, there is a link to 'ENABLE AUTO REFRESH'. The main content area features a green circle icon and the title 'Build amd64,sid (Jan 26, 2015 4:54:48 PM)'. To the right of the title, it says 'Started 22 hr ago' and 'Took 14 min', with a link to 'add description'. A sidebar on the left contains navigation links: 'Back to Project', 'Status', 'Changes', 'Console Output', 'Edit Build Information', 'Delete Build', 'Parameters', 'See Fingerprints', 'Test Result', 'Matrix Reloaded', and 'Previous Build'. Below the title, there is a 'Build Artifacts' section with a folder icon and a list of files with their sizes and 'view' links. Below that, a notepad icon indicates 'No changes.' A diamond icon shows the build was started by the upstream project 'orafce-binaries' (build number 19), which was originally caused by 'orafce-source' (build number 20), which was started by user 'Christoph Berg'. At the bottom, a clipboard icon indicates a 'Test Result (no failures)'. The bottom of the page shows navigation icons and a red 'ativ' logo.

orafce-binaries » am... x +

https://pgdgbuild.dus.dg-i.net/jenkins/jc

Jenkins

Search

Christoph Berg

Jenkins > orafce-binaries > #19 > amd64,sid

ENABLE AUTO REFRESH

Back to Project

Status

Changes

Console Output

Edit Build Information

Delete Build

Parameters

See Fingerprints

Test Result

Matrix Reloaded

Previous Build

Build amd64,sid (Jan 26, 2015 4:54:48 PM)

Started 22 hr ago
Took 14 min

[add description](#)

Build Artifacts

orafce_3.0.14-1.pgdg+1.debian.tar.gz	3.64 KB	view
orafce_3.0.14-1.pgdg+1.dsc	1.17 KB	view
orafce_3.0.14-1.pgdg+1_amd64.changes	1.75 KB	view
orafce_3.0.14-1.pgdg+1_source.changes	1.41 KB	view
orafce_3.0.14.orig.tar.gz	179.21 KB	view
postgresql-9.2-orafce_3.0.14-1.pgdg+1_amd64.deb	84.46 KB	view
postgresql-9.3-orafce_3.0.14-1.pgdg+1_amd64.deb	84.08 KB	view
postgresql-9.4-orafce_3.0.14-1.pgdg+1_amd64.deb	84.16 KB	view

No changes.

Started by upstream project [orafce-binaries](#) build number [19](#)
originally caused by:

- Started by upstream project [orafce-source](#) build number [20](#)
originally caused by:
 - Started by user [Christoph Berg](#)

[Test Result](#) (no failures)

orafce Console Output

```
orafce-binaries » am... x +
https://pgdgbuild.dus.dg-i.net/jenkins/jc
Jenkins » orafce-binaries » #19 » amd64,sld
-----
17:08:28 ### installcheck 9.4 ###
17:08:29 Creating new cluster 9.4/regress ...
17:08:29 config /etc/postgresql/9.4/regress
17:08:29 data /var/lib/postgresql/9.4/regress
17:08:29 locale en_US.utf8
17:08:30 port 5432
17:08:32 /usr/lib/postgresql/9.4/lib/pgxs/src/makefiles/../../src/test/regress
/pg_regress --inputdir=/tmp/adt-run.8HvDm7/tree --psqlidir='/usr/lib/postgresql
/9.4/bin' --load-language=plpgsql --schedule=parallel_schedule --encoding=utf8
--dbname=contrib_regression orafce dbms_output dbms_utility files varchar2 nvarchar2
aggregates nlssort dbms_random
17:08:32 (using postmaster on localhost, port 5432)
17:08:32 ===== dropping database "contrib_regression" =====
17:08:32 NOTICE: database "contrib_regression" does not exist, skipping
17:08:32 DROP DATABASE
17:08:32 ===== creating database "contrib_regression" =====
17:08:33 CREATE DATABASE
17:08:33 ALTER DATABASE
17:08:33 ===== installing plpgsql =====
17:08:33 CREATE LANGUAGE
17:08:33 ===== running regression test queries =====
17:08:33 test init ... ok
17:08:33 parallel group (2 tests): dbms_pipe_session_A dbms_pipe_session_B
17:08:43 dbms_pipe_session_A ... ok
17:08:43 dbms_pipe_session_B ... ok
17:08:43 test orafce ... ok
17:08:43 test dbms_output ... ok
17:08:43 test dbms_utility ... ok
17:08:43 test files ... ok
17:08:43 test varchar2 ... ok
17:08:43 test nvarchar2 ... ok
17:08:43 test aggregates ... ok
17:08:43 test nlssort ... ok
17:08:44 test dbms_random ... ok
17:08:44
17:08:44 =====
17:08:44 All 12 tests passed.
```

pg_buildext

- Helps with building packages for multiple PostgreSQL versions at once
- Loops over versions listed in `debian/pgversions`
- Supported versions defined by `/usr/share/postgresql-common/supported-versions`
- Examples in `pg_buildext(1)`



debian/rules

```
include /usr/share/postgresql-common/pgxs_debian_control.mk

override_dh_auto_build:
    +pg_buildext build build-%v

override_dh_auto_test:
    # nothing to do here, see debian/tests/* instead

override_dh_auto_install:
    +pg_buildext install build-%v postgresql-%v-foobar

override_dh_installdocs:
    dh_installdocs --all README.*

override_dh_auto_clean:
    +pg_buildext clean build-%v

%:
    dh $@
```



Build-time testing vs. testing installed packages

- Regression tests are nice, but don't catch packaging errors
- Run tests on installed packages as well
- **autopkgtest**
- postgresql-common: 1274 tests for postgresql-9.4
- 1954 for postgresql-9.3+9.4 incl. upgrade tests



autopkgtest

- debian/tests/control

```
Tests: run-testsuite
```

```
Depends: @, build-essential, hunspell-en-us, locales, netcat-openbsd, ...
```

```
Restrictions: needs-root
```

- debian/tests/run-testsuite

```
#!/bin/sh
```

```
cd /usr/share/postgresql-common
```

```
./testsuite
```

```
===== Running all tests with tight umask 077 =====
```

```
=== Running test 001_packages.t ... ===
```

```
1..19
```

```
# PostgreSQL versions installed: 9.4
```

```
ok 1 - postgresql-9.4 installed
```

```
ok 2 - postgresql-plpython-9.4 installed
```

```
ok 3 - postgresql-plpython3-9.4 installed
```

```
ok 4 - postgresql-plperl-9.4 installed
```

```
ok 5 - postgresql-pltcl-9.4 installed
```

```
ok 6 - postgresql-server-dev-9.4 installed
```

```
ok 7 - postgresql-contrib-9.4 installed
```

```
ok 8 - libecpg-dev installed
```

```
ok 9 - logrotate installed
```

```
ok 10 - procps installed
```

```
ok 11 - netcat-openbsd installed
```

```
ok 12 - hunspell-en-us installed
```

```
ok 13 - system has a default UTF-8 locale
```



autopkgtest and pg_buildext

- Run “make installcheck” (via PGXS)
- Simple debian/tests/installcheck

```
#!/bin/sh  
pg_buildext installcheck
```

- Complex debian/tests/installcheck

```
#!/bin/sh  
  
set -e  
for v in $(pg_buildext supported-versions); do  
    case $v in  
        8*|9.0) # don't bother to test the extension here  
            continue ;;  
    esac  
  
    (  
        PATH=$PATH:/usr/lib/postgresql/$v/bin  
        pg_buildext installcheck-$v  
    )  
done
```



DDPO: Debian Postgr... x

https://qa.debian.org/developer.php?login=pkg-postgresql-public%40lists.aliases.debian.org&set=yes&comal

QA

About Debian Getting Debian Support Developers' Corner

debian / debian quality assurance

Packages overview for Debian PostgreSQL Maintainers

Maintainer: Debian PostgreSQL Maintainers <pkg-postgresql-public@lists.aliases.debian.org> — Bugs: [open](#) - [RC](#) - [all](#) - [submitted](#) - [WNPE](#) - [...](#) — Reports: [Dashboard](#) - [Build](#) - [Lintian](#) - [Debtags](#) - [Piuparts](#) - [Portfolio](#)

main (34)

Source Name	Bugs		Version					VCS	Binary Package	Build	Deb check	Lintian E+W	Piuparts	CI	Popcon	Watch
	All	RC	Oldstable	Stable	Testing	Unstable	Exp									
orafce* PTS Pool	-		3.0.1-1	3.0.4-1	3.0.7-3		3.0.14-1	Git OK	1	14x✓ 6	-	-	-	pass	16	3.0.14 3.0.14
check-postgres* PTS Pool	-		2.19.0-1-bpo60+1	2.19.0-1	2.21.0-2 Excuse/Why? AUTORM	2.21.0-3	-	Git OK	1	-	-	0+2	-	-	69	-
postgresql-pgmp* PTS Pool	-		-	1.0.0-4	1.0.1-6		1.0.2-1	Git OK	1	14x✓	-	-	-	pass	14	1.0.2 1.0.2
pg-reorg* PTS Pool	-		-	-	Excuse/Why?	1.1.11-1	-	Git OK	1	14x✓	-	-	-	pass	7	1.1.11
postgresql-common* PTS Pool	19 (21)		113+squeezel 134wheezy4-bpo60+1	134wheezy4	165		-	Bzr 166	12345 67	-	I U	0+1	-	29891	-	
pgadmin3*[RFH] PTS Pool	8		1.10.5-1 1.14.0-1-bpo60+1	1.14.2-2	1.20.0-beta2-1		1.20.0-1	Git OK	123	14x✓	-	0+4	-	4010	1.20.0 1.20.0	
postgresql-9.4* PTS Pool	16 (20)		-	-	9.4.0-1		-	Bzr OK	12345 67...16	14x✓	I U	0+5	-	61722	9.4.0 9.4.0	
postgresql-multicorn* PTS Pool	-		-	-	1.0.4-1		1.1.0-1-exp1	Git OK	1234	14x✓	I U	0+3	-	pass	15	1.1.0 1.1.0
libpqtypes* PTS Pool	-		-	-	1.5.1-2		-	Git OK	123	14x✓ 6	-	0+1	-	pass	3	1.5.1 1.5.1
psqlodbc* PTS Pool	2		1:08.03.0200-1.2	1:09.01.0100-1+deb7u1	1:09.03.0300-1		1:09.03.0400-1	Git OK	12	14x✓	-	-	-	pass	1325	09.03.0400 09.03.0400
pgpool2*[RFH] PTS Pool	1		1.3-2 3.1.3.4-bpo60+1	3.1.3-5	3.3.4-1		-	Git 3.4.0-1	1234	14x✓	-	0+27	-	pass	166	3.4.0 3.4.0
pgmemcache* PTS Pool	-		-	2.0.6-1.1	2.2.0-1		-	Git OK	1	14x✓	-	-	-	pass	10	2.2.0 2.2.0
pgnclient* PTS Pool	-		-	1.0.3-1	1.2.1-3		-	Git 1.2.1-4WARN	1	-	-	0+4	-	-	38	1.2.1 1.2.1
postgresql-filedump* PTS Pool	-		-	9.1.0-1	9.3.0-2		-	Git OK	1	14x✓	-	-	-	-	67	9.3.0 9.3.0





Bugs



creativ

Bugs found: peer authentication

Found by postgresql-common:

```
commit b777be0d48a042f500cac72140ffb50392973aa2
```

```
Author: Tom Lane <tgl@sss.pgh.pa.us>
```

```
Date: Fri Mar 28 10:30:37 2014 -0400
```

Un-break peer authentication.

Commit 613c6d26bd42dd8c2dd0664315be9551475b8864 sloppily replaced a lookup of the UID obtained from `getpeereid()` with a lookup of the server's own user name, thus totally destroying peer authentication. Revert. Per report from Christoph Berg.

In passing, make sure `get_user_name()` zeroes `*errstr` on success on Windows as well as non-Windows. I don't think any callers actually depend on this ATM, but we should be consistent across platforms.



Bugs found: stack size detection

Found by the PostgreSQL regression tests:

```
*** src/test/regress/expected/errors.out 2014-05-11 23:16:48
--- src/test/regress/results/errors.out 2014-05-13 22:16:05
*****
*** 444,447 ****
    'select infinite_recurse()' language sql;
    \set VERBOSITY terse
    select infinite_recurse();
! ERROR:  stack depth limit exceeded
--- 444,447 ----
    'select infinite_recurse()' language sql;
    \set VERBOSITY terse
    select infinite_recurse();
! connection to server was lost
```

General Linux ASLR issue on 32bit archs, mitigated by disabling -pie



Bugs found: non-reproducible EXPLAIN output

Found by the multicorn regression tests on 9.4:
During the 9.4 development, EXPLAIN grew an extra "Planning time" output line that made it impossible to use this in regression tests:

```
explain select * from testmulticorn m1 inner join testmulticorn m2 on m1.test1 = m2.test1
          QUERY PLAN
```

```
-----
Nested Loop  (cost=20.00..806.05 rows=2 width=128)
  Join Filter: ((m1.test1)::text = (m2.test1)::text)
    -> Foreign Scan on testmulticorn m1  (cost=10.00..400.00 rows=20 width=128)
    -> Materialize  (cost=10.00..400.10 rows=20 width=20)
        -> Foreign Scan on testmulticorn m2  (cost=10.00..400.00 rows=20 width=128)
(5 rows)
```

Resolved by showing the Planning time for EXPLAIN ANALYZE only



Bugs found: timezone mess

First spotted on Solaris, but it was a Debian problem as well:

When using `--with-system-tzdata`:

```
1937c1937
< Sat Oct 25 22:00:00 2014 UTC
---
> Sat Oct 25 21:00:00 2014 UTC
1943c1943
< Sat Oct 25 22:00:01 2014 UTC
---
> Sat Oct 25 21:00:01 2014 UTC
```

(Blame the Russians)

Resolved by using testcases for similar TZ changes from 2012 instead



Bugs found: shm_mq problems

```
../../src/test/regress/pg_regress --inputdir=/«PKGBUILDDIR»/build/../../contri
===== creating temporary installation =====
===== initializing database system =====
===== starting postmaster =====
running on port 3133 with PID 29665
===== creating database "contrib_regression" =====
CREATE DATABASE
ALTER DATABASE
===== running regression test queries =====
E: Caught signal 'Terminated': terminating immediately
make[4]: *** [check] Terminated
make[3]: *** [check-test_shm_mq-recurse] Terminated
test test_shm_mq          ... /«PKGBUILDDIR»/build/../../src/makefiles/pgx
[...]
GNUmakefile:69: recipe for target 'check-world-contrib-recurse' failed
Build killed with signal TERM after 300 minutes of inactivity
```

Issue on some mips(el) build hosts, a similar issue on Solaris was fixed last month, but it's probably something else



creativ

Bugs found: psqldb problems

Found by the psqldb regression tests on s390x:

```
struct IPDFields_
{
-#if (ODBCVER >= 0x0300)
-    SQLUINTEGER                *param_processed_ptr;
-#else
-    SQLULEN                    *param_processed_ptr; /* SQLParamOptions */
-#endif /* ODBCVER */
+    SQLULEN                    *param_processed_ptr;
+    SQLUSMALLINT              *param_status_ptr;
```



Bugs found: extensions not ported to 9.x yet

Dozens of cases where extensions were not ported to 9.3 9.4 9.5 yet:

```
*** /tmp/adt-run.PNuMnw/tree/test/expected/mpq.out 2015-01-16 01:47:29
--- /tmp/adt-run.PNuMnw/tree/results/mpq.out 2015-01-17 21:45:27
*****
*** 486,491 ****
--- 486,492 ----
    insert into test_mpq_idx select generate_series(1, 10000);
    create index test_mpq_btree_idx on test_mpq_idx using btree (q);
    create index test_mpq_hash_idx on test_mpq_idx using hash (q);
+ WARNING:  hash indexes are not WAL-logged and their use is discouraged
-- Hash is compatible with mpz
select mpq_hash(0) = mpz_hash(0);
t
```

Regression failures usually easy to work around, code changes more involved



Bugs NOT found: SSL problems in libpq

One of our servers is currently running on postgres 9.2 using the 9.2.9-1.pgdg70+1 packages from pgdg.

After an apt update this morning which brought in the libpq5 package version 9.4.0-1.pgdg70+1, connections to the tabase started failing with SSL errors logged on the server:

```
[unknown] [unknown] LOG:  could not accept SSL connection:
```

Rolling back the server and client to libpq5 version 9.3.5-2.pgdg70+1 fixed it.

This is running on an otherwise up-to-date Debian Wheezy. The SSL certificate is locally issued using an internal CA which has been added to the local trust store. SSL-related config options are left set to the defaults.

9.4's libpq only supports TLS, not SSL, for which 512bit keys are too small



Bugs NOT found: libpq and NSS lookups

In minimal chroots, 9.4's libpq is unusable:

```
Jan 10 00:11:40 lehmann postfix/trivial-rewrite[29960]:  
warning: connect to pgsql server localhost:5432:  
out of memory?  
Jan 10 00:11:40 lehmann postfix/trivial-rewrite[29960]:  
warning: pgsql:/etc/postfix/pgsqltest lookup error for "*"

```

/etc/passwd lookup failures are non-fatal again in 9.4.1



TODO



Things not automated yet

- Some packages don't have tests (meh)
- Some packages have, well, complicated testsuites (someone needs to untangle them)
- Triggering builds of updated packages (wanna-build NIH)
- Nice webpages for packages in the repository (done, but hasn't made it to www.pg.o yet)
- `dh --with=pg_buildext`
- `dh_make_pgxs`
- More maintainers!