

Most Wanted

Future PostgreSQL Features

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FOSDEM 2010

Top 5 Priorities 2008/before PostgreSQL 8.3

1. Easy installation of PostgreSQL + accessories
 2. Simple built-in replication
 3. Getting rid of VACUUM
 4. Upgrade-in-place
 5. Driver quality and maintenance
- ▶ <http://it.toolbox.com/blogs/database-soup/postgresql-development-priorities-31886>
 - ▶ http://wiki.postgresql.org/wiki/PgCon_2009_Developer_Meeting#Top_Adoption_Issues
 - ▶ <http://www.postgresql.org/community/survey.55>

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Top 5 Priorities 2009/before PostgreSQL 8.4

1. Simple built-in replication
2. Upgrade-in-place
3. Administration and monitoring tools
4. Driver quality and maintenance
5. Modules and extension management

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Top 5 Priorities 2010/before PostgreSQL 9.0

1. Simple built-in replication
2. (Upgrade in place)
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5. Modules and extension management

Top 5 Priorities 2010/before PostgreSQL 9.0

1. Simple built-in replication ✓
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Top Priorities after PostgreSQL 9.0

- ▶ Administration and monitoring tools
- ▶ Driver quality and maintenance
- ▶ Modules and extension management
- ▶ Per-column locale/collation
- ▶ VLDB?
- ▶ Cloud?

<http://postgresql.uservoice.com/>

General Forum

Log in or Sign up | English ▾

Do you have a feature request or a good idea for how to improve PostgreSQL? You can use this forum to let us know. (This is an experiment, see <http://www.postgresql.org/support/> for more official ways to contact the PostgreSQL project. Please report actual bugs and conduct development discussions there.)

I suggest you ...

top ideas **hot** new 1 accepted 15 completed 2

141

votes

Materialized Views

Materialized views will boost performance for every web application and not only that is must for our era.

vote

by anonymous | 2 comments

[Report]

91

votes

Synchronous replication

Send WAL replication information to the slave without delay, so the data is known committed on the slave before the master reports the command or transaction complete to its client.

vote

by Peter Eisentraut | 3 comments

[Report]

Status: **started**

88

votes

parallel query option

Rationale:

We are running a BI wimid-size data warehouse. PostgreSQL scales reasonably well for the BI app - i.e. when there is enough users running dashboards, ad-hoc queries, etc the server is as busy as expected.

HOWEVER when running the ETL overnight most of the processors are idle - BECAUS...

[more](#)

by budurek | 1 comment

[Report]

79

votes

Index-only scans

For performance reasons (reduced-I/O) it would be good for PostgreSQL to obtain index-only scans.

10 votes left

What happens if I run out?

Want your own forum like this?

General activity feed

Need Help?

Forums

General (42)

New Slogan (126)

Top Requests on UserVoice

1. Materialized views
2. Synchronous replication
3. Parallel query
4. Index-only scans
5. MERGE/UPSERT/REPLACE
6. Administration and monitoring tools
7. In-place upgrades
8. Partitioning

Status: Materialized Views

- ▶ User-space toolkit exists: http://tech.jonathangardner.net/wiki/PostgreSQL/Materialized_Views
- ▶ No core work planned

Status: Synchronous Replication

- ▶ 9.0 will have “Hot Standby” and “**Streaming** Replication”
- ▶ **Synchronous** replication might be expected for 9.1
- ▶ More refinement work on streaming replication

Status: Parallel Query

- ▶ Conflicts with commercial interests
- ▶ Doubtful for the near future

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- ▶ Conflicts with commercial interests
- ▶ Doubtful for the near future
- ▶ Wait! . . . Just in: Simon will fix it.

<http://database-explorer.blogspot.com/2010/02/parallel-query-1.html>

Status: Index-Only Scans

- ▶ In progress
- ▶ Might be expected for 9.1

Status: MERGE/UPSERT/REPLACE

Example:

```
MERGE INTO table1 AS t
  USING table1 o
  ON (t.id = o.id)
  WHEN MATCHED
    THEN UPDATE SET a = 1, b = 2, c = 3
  WHEN NOT MATCHED
    THEN INSERT (id, a, b, c) VALUES (0, 1, 2, 3)
```

[http://en.wikipedia.org/wiki/Merge_\(SQL\)](http://en.wikipedia.org/wiki/Merge_(SQL))

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- ▶ No plans?
- ▶ Standardized since SQL:2003
- ▶ All other relevant SQL databases support some variant of this.
- ▶ Potential major blocker: new (predicate?) locking support

Status: Administration and Monitoring Tools

?

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?

- ▶ Dozens of tools exist
- ▶ Problems need to be defined

Status: In-Place Upgrades

- ▶ 8.3 -> 8.4 didn't work very well ☹️
- ▶ 8.4 -> 9.0 can be expected to work 😊
- ▶ Will require new effort for each release

Status: Partitioning

- ▶ Constraint exclusion doesn't scale
- ▶ Some work was proposed during 9.0 cycle
- ▶ Possible for 9.1

Status: Driver Quality and Maintenance

- ▶ Problem: most are underrecognized or “one-man” projects
- ▶ Need lots of help

Status: Per-column locale/collation

- ▶ Open question: glibc vs. ICU
- ▶ Could happen any day or never . . .

Status: Module and Extension Management

- ▶ Various ideas are/have been in prototype phases
- ▶ Current approach: **PGAN**
- ▶ Possible for 9.1

Crystal Ball

Possible 9.1 features:

- ▶ Synchronous replication
- ▶ Index-only scans
- ▶ Partitioning
- ▶ PGAN

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- ▶ ???

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