Get Your Preferred Feature Developed!

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@theory

Postgres Open
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CPAN for PostgreSQL

- Had this idea
- Never had time
- Decided to raise money
- People and Orgs happy to donate
- Money came in, started hacking
- Met fundraising goal
- Finished hacking and launched
WITH RECURSIVE?
All About You

- Your org using PostgreSQL
- Powerful
- Flexible
- Feature complete?
Not there yet.
What Could You Use?

- Integrated partitioning
- High CPU concurrency
- Multimaster replication and clustering
- Multi-table indexes
- Table- and column-level encoding
- Faster & more fault-tolerant data loading
- Automated postgresql.conf configuration
- Parallel pg_dump
Success demands more awesome.
How can you add more awesome?
Labor

Who?

Any employees got the chops?

Give them the time?

Know anyone who does?

Find someone to do the work!

Figure out what they need
PostgreSQL Dev Cycle

- WIP patches
- Commit Fests
- Alpha releases
- Beta releases
- Fork next version
- RC and release

Image: http://www.flixya.com/photo/2227292/Elephant-on-Cycle
Blue Print

- Come up with implementation plan
- Discuss on pgsql-hackers
- Adapt to feedback and criticism
- Integrate suggestions
- Keep at it
- Finalize proposal
Get community buy in.

Scheduling

- How long will it take?
- How much will change between iterations?
- Plan for current dev cycle or next?
- How much funding to make it happen?

Moolah

Surest way to push development forward

Got able developer with no time?

Buy some for them!

Can your org pay for it?

How much are you saving on Oracle licensing?

Can you organize a fund?

Who else can contribute?

Public domain
Fundraising

- Publish milestones
- Publish a site (Kickstarter?)
- Establish sponsorship levels
- Offer incentives for sponsors
- Set targets and deadlines
- Marketing!
- Display progress graphically
- Accept payments
Hacking

- Get started with some funds raised
- Demonstrate its reality
- Send WIP patches
- Get into commit fests
- Discuss design issues ad nauseum
- Bike shedding!
Fully Committed

- Shepherd through commit fests
- Respond to all reasonable comments
- SHIP
- Work with committer
- Answer questions
- Address new design issues
- Celebrate
Where to start?
Simon Riggs
2nd Quadrant

- Integrated partitioning syntax
- Multimaster replication
- Clustering

simon@2ndQuadrant.com
Robert Haas
EnterpriseDB

- High CPU concurrency
- Track table and index caching to improve optimizer decisions
Bruce Momjian
Enterprise DB

Generate catalog comments from documentation

bruce@momjian.us
Andrew Dunstan
PostgreSQL Experts, Inc.

- Faster and more fault tolerant data loading
- Parallel pg_dump
- Ragged CSV COPY

andrew.dunstan@pgexperts.com
Dimitri Fontaine
2nd Quadrant

- DDL Triggers
- Improved parallel pgloader
- Trusted extensions
- Extension dependency bundling

dimitri@2ndQuadrant.fr
David Wheeler
PostgreSQL Experts, Inc.

- pgTAP re-architecting
- PGXN extension bundling
- PGXN instant upload propagation
- PGXN Favorites
- Additional PGXN author metadata

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Magnus Hagander
Redpill Linpro

- Revamp the logging system
- Fix SSL issues
- Support another SSL Library

magnus@hagander.net
Hannu Krosing
2nd Quadrant

- Improved PL/Python integration
- Replication sharding support
- Time travel (à la Oracle)
- Index-like tuple visibility
  - index-only scans
  - column storage
  - tale compression

hannu@krosing.net
Alexander Korotkov
Moscow

- Statistics selectivity estimation for geometric data types
- Improved approximate string matching functions
- GIN/GiST/SPGist access to improved string matching functions
- Signature indexing, e.g. to index images for similarity

aekorotkov@gmail.com
Josh Berkus
PostgreSQL Experts, Inc.

- Update and maintain newsysviews extension
- median() and quartile() window aggregates
- pgTune Configuration wizard

josh.berkus@pgexperts.com
Other Ideas

- Distributed queries
- Multi-threaded queries
- Stored procedures
- ROLLUP and CUBE
- pg_dumpall custom format
- User isolation levels
- Indexed FDWs
-Writable FDWs
Thank you.

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