

Open Source, Open Engineering & PostgreSQL

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PostgreSQL Committers

- US Tom, Bruce, Andrew, Robert, Jeff, Stephen, Noah, Kevin
- Germany Michael, Jan, Peter, Andres
- Japan Ishii, Itagaki, Fujii
- Chile Alvaro
- Sweden Magnus
- Finland Heikki
- UK Simon

10 years Ago

- Point in Time Recovery
- Partitioning
- Warm Standby
- HOT
- Performance enhancements
- Hot Standby
- •



Expanding Capabilities



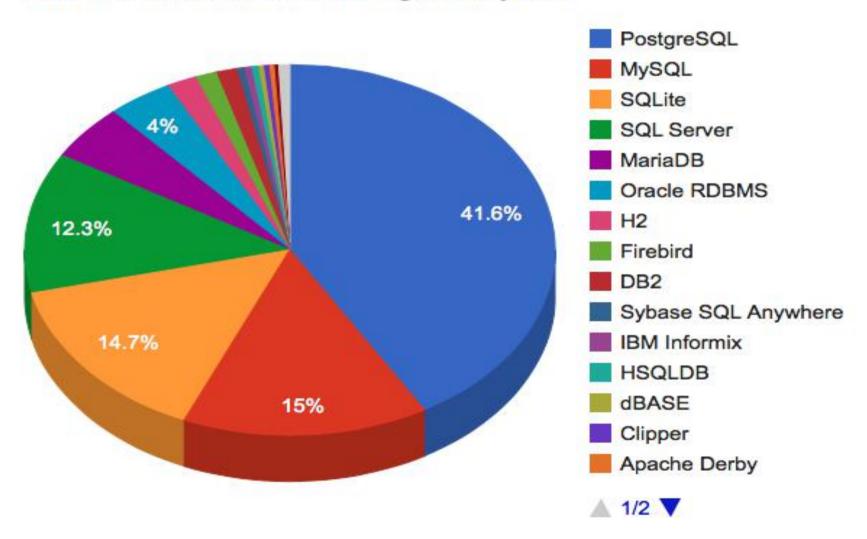


Expanding Community



Popularity

Favorite relational database management system





Analytics on Xtremely Large European data

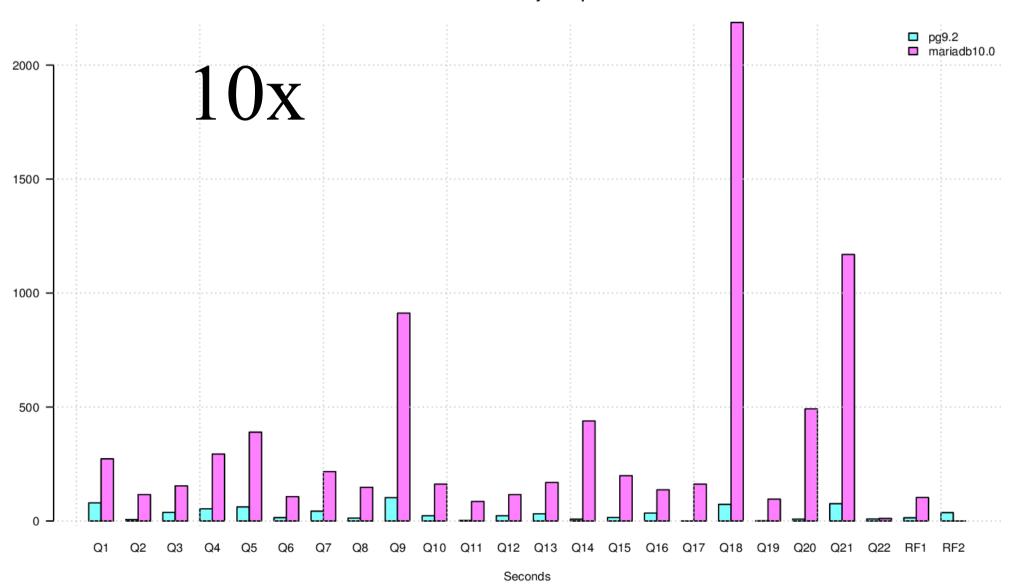
- Secure
- Big
- Fast
- Hardware optimised
- Visual Analytics





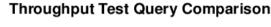
TPC-H: PG9.2 v Mariadb 10.0

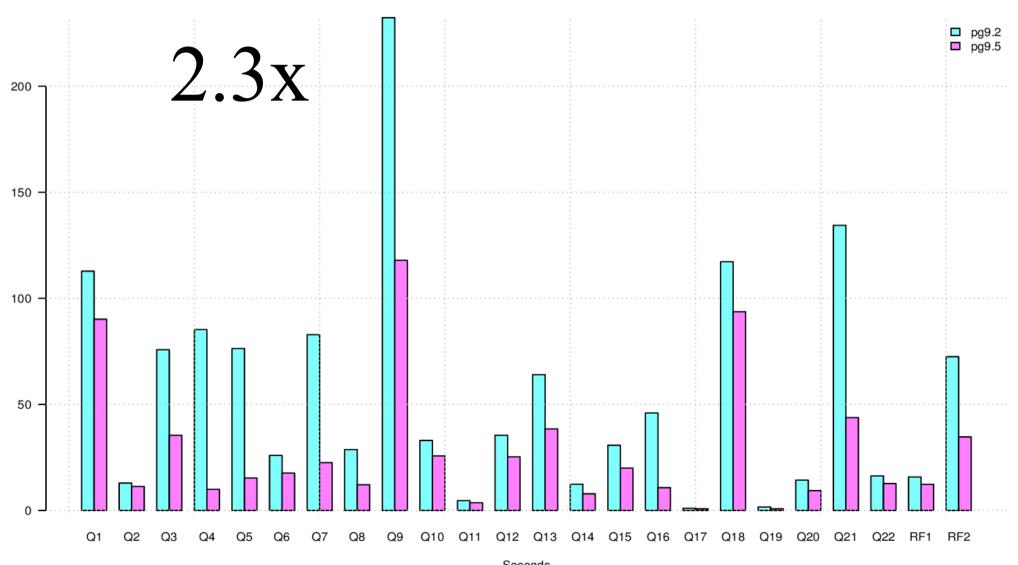
Power Test Query Comparison





Latest results from AXLE **TPC-H: PG9.2 v PG9.5dev++**





Good News

- Transaction controlled robustness synchronous_commit
- Lock level reductions
- JSONB
- Logical Decoding/Logical Replication/BDR
- BRIN indexes
- Atomics
- UPSERT
- Parallel Query



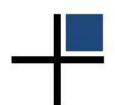
Q: Why is PostgreSQL good?

- PostgreSQL is open source
- You can download PostgreSQL for free
- You can use it without restriction
- Nobody makes any money by selling it
- Nobody can afford to pay developers to improve it
- Many people think FREE == POOR QUALITY
- "You get what you pay for"



Free, as in Communication

- Freedom to communicate
- Freedom to work together
- Freedom to create something more than the work of one person
 - Most open source projects are just one person



A: Why is PostgreSQL good?

- Worldwide contribution
- Open to new ideas (eventually!)
- Open to the best ideas (eventually)
- Open Engineering
- Steady progress



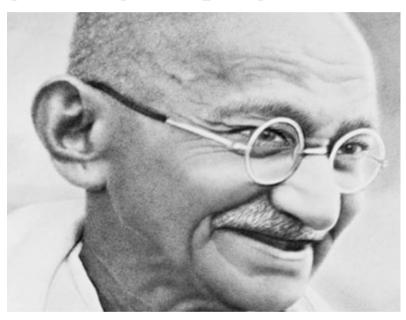
So we all love each other?

- No
- That's a good and powerful word
- When used sparingly, with courage and restraint
- Peer Review is an important aspect of Quality
- Objectivity, and some polite distance is essential
- English folk wisdom
 - "Fools seldom differ"



Disagreement

- "Honest disagreement is often a good sign of progress"
 - Mahatma Gandhi1869-1948



- Who is Gandhi?
 - He's the guy that persuaded the British Empire to give control of India back to its people,
 without firing a shot

Fork Off!

- You don't like it, fork it!
 - It's all about freedom, right?
- Working together it our strength
 - Observe Linux and BSD
- Please try hard to contribute to core PostgreSQL, even with the difficulties
- Do not be tempted to fork work together



Open Engineering

- At 2ndQuadrant
 - You're allowed to contribute to PostgreSQL
 - You're allowed to disagree with me
 - Your ideas are great,
 working together on ideas is better
 - Open, public discussion not private chats
- Working alone is efficient
- Working together is best



Working Together

- I'm in Tokyo on 8/12 and 9/12
- I expect to be busy working on PostgreSQL development projects
- If any Hackers would like to meet for work, I would be very happy to spend time working with you



Contributing to PostgreSQL

- Contributing to the PostgreSQL community is important to keep the software alive and well
 - Development please discuss early!
 - Documentation & Translation
 - Patch review
 - Early testing do not wait for 9.4.1!
 - Useful bug reports



Economics of PostgreSQL

- The economic model is different and so it is important that people that make money from using PostgreSQL feed that back into community activity
- Understand the lesson of **heartbleed**:
 - OpenSSL used by everybody, supported by nobody
- It is a well understood problem, across many different fields of human activity. In ecology this was called "The Tragedy of the Commons"
- User choice is important: support companies that **actively** support PostgreSQL



Japan PostgreSQL User Group

• Thank you to JPUG for being good citizens

Most active user group worldwide!

• Please enjoy the conference