

Exploring Postgres Tips and Tricks

BRUCE MOMJIAN



Postgres is a complex piece of software with many facets to explore. This presentation will demonstrate tips and tricks for using Postgres effectively.

<https://momjian.us/presentations>



Creative Commons Attribution License

Last updated: June 2024

Outline

1. Hardware
2. Internals
3. Monitoring
4. Configuration
5. SQL
6. Clients

Hardware

1. SMART

- https://momjian.us/main/blogs/pgblog/2012.html#January_25_2012

2. *pg_test_fsync*

- <https://www.postgresql.org/docs/11/pgtestfsync.html>
- https://momjian.us/main/blogs/pgblog/2012.html#August_3_2012

3. *pg_test_timing*

- <https://www.postgresql.org/docs/11/pgtesttiming.html>

4. Backend flowchart

- https://momjian.us/main/blogs/pgblog/2012.html#September_4_2012
- <https://www.postgresql.org/developer/backend/>

5. Backend diagram

- https://momjian.us/main/blogs/pgblog/2009.html#March_11_2009
- https://momjian.us/main/writings/pgsql/src_flow.pdf

Monitoring

6. *ps -ef, top*

- https://momjian.us/main/blogs/pgblog/2012.html#August_6_2012

7. Timing a query

- https://momjian.us/main/blogs/pgblog/2012.html#June_6_2012

8. Timing query internals

- https://momjian.us/main/blogs/pgblog/2012.html#June_8_2012

Configuration

9. GUC levels

- https://momjian.us/main/blogs/pgblog/2011.html#December_1_2011

10. *work_mem*

- https://momjian.us/main/blogs/pgblog/2012.html#February_2_2012
- https://momjian.us/main/blogs/pgblog/2018.html#December_7_2018

11. Transactional DDL

- https://momjian.us/main/blogs/pgblog/2012.html#June_1_2012

12. *template1*

- https://momjian.us/main/blogs/pgblog/2012.html#May_16_2012

13. Virtual columns

- https://momjian.us/main/blogs/pgblog/2013.html#April_1_2013

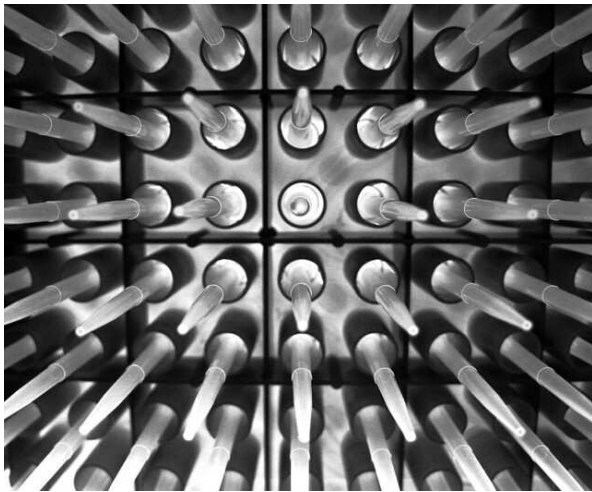
14. Time zone

- https://momjian.us/main/blogs/pgblog/2019.html#February_11_2019

15. *psql*

- <https://www.postgresql.org/docs/11/app-psql.html>
- \h
- \?
- variables

Conclusion



<https://momjian.us/presentations>

https://www.flickr.com/photos/m_j-n/