Postgres Weekly

#275 — SEPTEMBER 26, 2018

Postgres Weekly

```
Samples: 1M of event 'cycles', Event count (approx.): 674270914780
Overhead  Shared Object                    Symbol
  16.51%  [kernel]                         [k] pvclock_clocksource_read
   4.87%  postgres                         [.] hash_search_with_hash_value
   2.73%  [kernel]                         [k] __pv_queued_spin_lock_slowpath
   2.69%  postgres                         [.] pg_strtok
   2.35%  [kernel]                         [k] filemap_map_pages
   2.06%  [kernel]                         [k] unmap_page_range
   1.84%  postgres                         [.] AllocSetAlloc
```

Running Postgres on EC2? Your Clock Could Be Slowing You Down — A curious tale of a company discovering the EC2 instances running its Postgres cluster were particularly slow at getting the time and this had a performance hit on its Postgres analytics workload. As an interesting aside, one of Heap's engineers also explained why they use EC2 and not RDS for running Postgres.

KAMAL MARHUBI (HEAP)

PostgreSQL 11 Beta 4 Released — You'll have noticed we're linking to a lot of great Postgres 11 related stuff (this issue is no exception) and it's even closer to an eventual release today with the latest beta. If you're benchmarking, note that JIT compilation is *now disabled by default* and must be explicitly turned on.

POSTGRESQL GLOBAL DEVELOPMENT GROUP

Postgres-XL: Horizontally Scalable PostgreSQL — Postgres-XL is a massively parallel processing database - very closely compatible with PostgreSQL, scaling it horizontally. It supports both Business Intelligence workloads & high-volume transactional write & read workloads on the same platform.

2NDQUADRANT POSTGRESQL PRODUCTS `SPONSOR`

PostGIS 2.5.0 Released: Spatial and Geographic objects for PostgreSQL — Eagle-eyed readers will have noticed that all the 2.5 betas have been targeted at Postgres 11 and while PostGIS 2.5 is best suited with Postgres 11, it'll work with Postgres 9.4 and up.

POSTGIS DEVELOPERS

Optimizing Postgres Column Order — A rather technical look at some low-level tinkering you can do to order your columns in a memory-efficient way.

2NDQUADRANT

Postgres 11: Something for Everyone — A nice, high level explanation of some of the new features coming to Postgres 11 - most of which we've referenced here over the past few months. Our own Craig Kerstiens also takes a first look at what's available.

PETER GEOGHEGAN

Amazon Aurora Now Supports Stopping and Starting of Database Clusters — Aurora (which comes in a Postgres-compatible version) clusters can now be stopped (for up to 7 days) and restarted making it more useful and affordable for development and test purposes.

AMAZON WEB SERVICES

Announcing: The EDB Postgres Migration Portal Beta

ENTERPRISEDB `SPONSOR`

How to Write a Multiplication Aggregate Function in SQL
LUKAS EDER

Securing Postgres as an Enterprise-Grade Environment — A brief post that looks at a couple of Postgres features that will improve security.
AVINASH VALLARAPU

Thoughts on the Code of Conduct Controversy — Reflections on the PostgreSQL community's need for its recently published 'Code of Conduct' and what process should be taken to strike the right balance.
CHRIS TRAVERS

pg_terminator: A Tool to Clean up Sessions and Queries — When configured, it can cancel/terminate queries and connections based on a variety of rules. Git repo.
HUBERT DEPESZ LUBACZEWSKI

☐ EVENTS

PostgresConf South Africa 2018 — **October 9-10 (Johannesburg, South Africa)** An opportunity for the database administration and developer community to exchange ideas and learn about current features and upcoming trends.

2Q PGConf 2018 — **(December 4-5) Chicago** A conference dedicated to exchanging PostgreSQL knowledge.

PGCONF.ASIA 2018 — **Decemeber 10-12 (Tokyo, Japan)** PGConf.ASIA 2018 is an international conference for PostgreSQL. Come and join this one of the largest PostgreSQL conference held in Asia.

FOSDEM PGDay 2019 — **February 1, 2019 (Brussels, Belgium)** An extension to the regular PostgreSQL activities at FOSDEM.