

TimeScaleDB Load Test Setup

- Test Setup
 - Host
 - RAM 200GB
 - NVMe DISK
 - 72 hyper thread core
 - 10Gbps x 2 NIC
 - PostgreSQL 12
 - TimescaleDb
 - Very simple table with time, deviceid and value

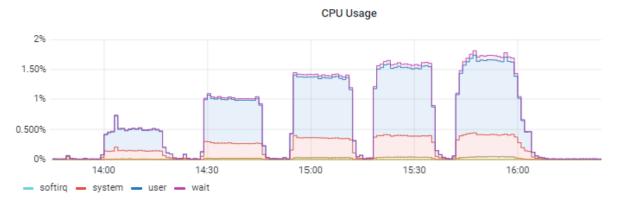
- A script was written to insert one row into the table with 100ms wait each for 10000 times.
 - Each script should generate about <u>10Hz</u> (or bit less due to being a script and some other delay)
- HTCondor was used to submit number of jobs from 100 to 500



Monitoring Load Tests

group_atlas_tier3 User Breakdown (Weighted)



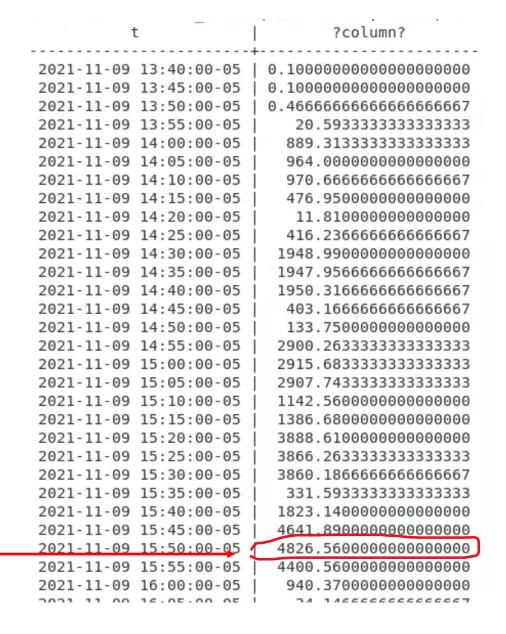






SQL commands

- create table measurements (mtime TIMESTAMPTZ NOT NULL, deviceid integer not null, value float not null);
- select create_hypertable('measurements', 'mtime');
- select time_bucket('5 minutes', mtime) as t, count(*)/300.0 from measurements group by t order by t;







Conclusion

- The scability of TimeScaleDb seems to be excellent.
- The insertion rate of 5K was easily attained using 500 different client hosts concurrently.
- There was no limitation observed during this test.

