TDengine

Time-Series DB
Performance Benchmarks
Based on Standard TSBS Framework

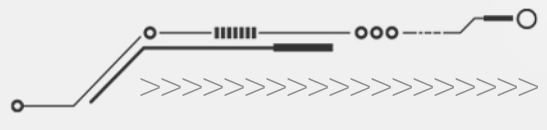>>>>>>>>>>>>>>>>>>>>>>>>>>>>

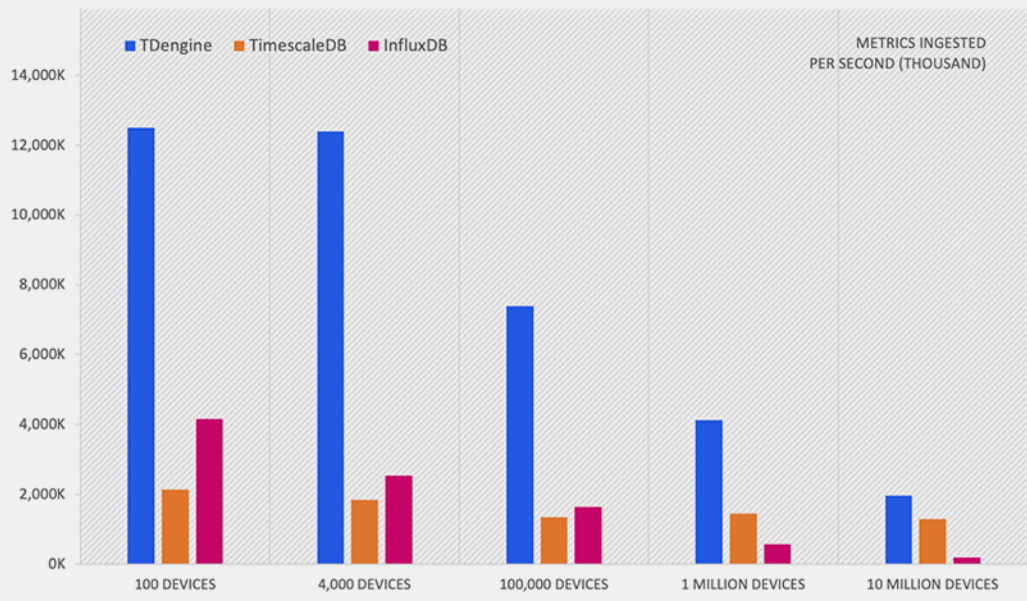## TDengine vs. InfluxDB vs. TimescaleDB

Modern industries from energy to IoT track massive amounts of time-series data, requiring a uniquely powerful database. Here are the facts: TDengine outperforms the competition no matter the size or scope of your data.
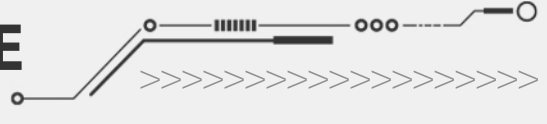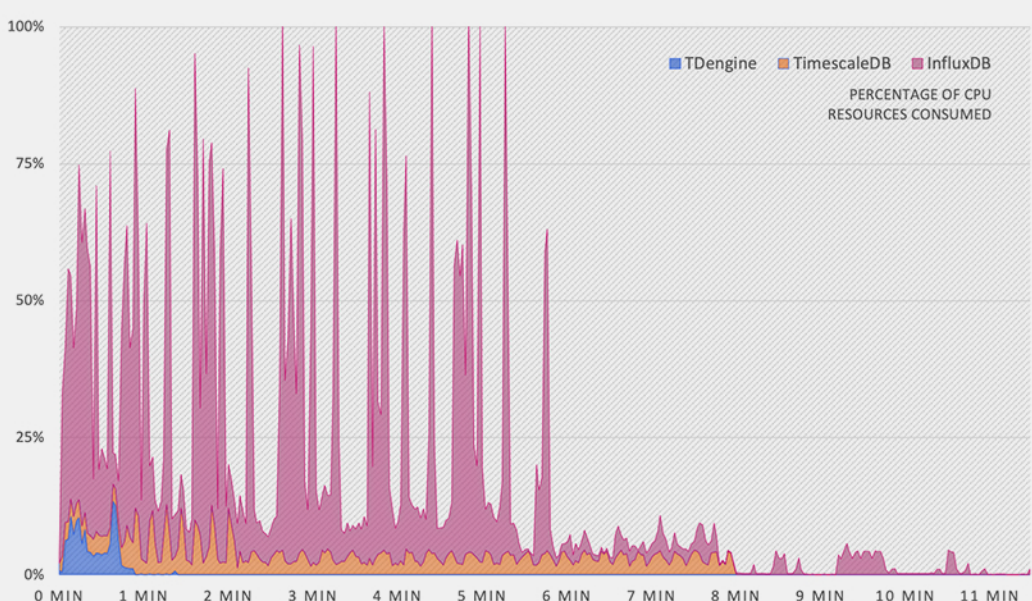
INGESTION RATE

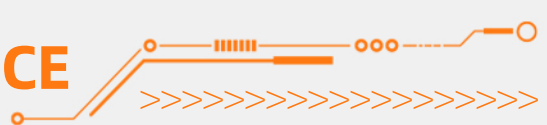TDengine supercharges data collection with ingestion feeds 1.5X to 10.6X faster than other providers.

■ TDengine ■ TimescaleDB ■ InfluxDB

METRICS INGESTED PER SECOND (THOUSAND)

14,000K
12,000K
10,000K
8,000K
6,000K
4,000K
2,000K
0K

100 DEVICES · 4,000 DEVICES · 100,000 DEVICES · 1 MILLION DEVICES · 10 MILLION DEVICES

SERVER CPU USAGE
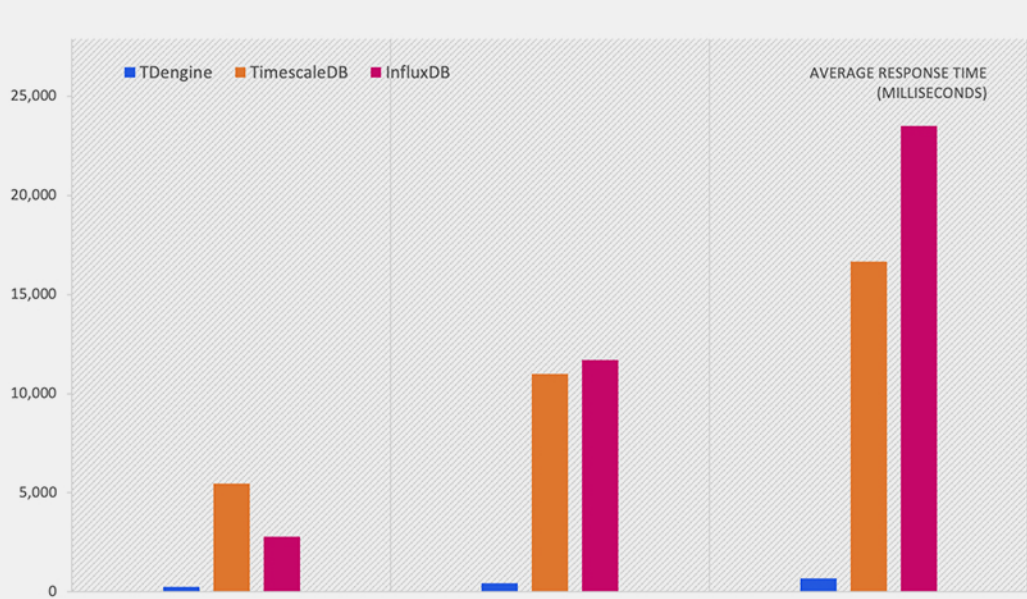
TDengine's high ingestion speeds aren't fueled by more resources. In fact, it requires fewer CPUs than other providers.

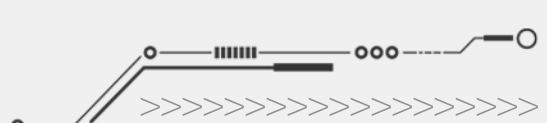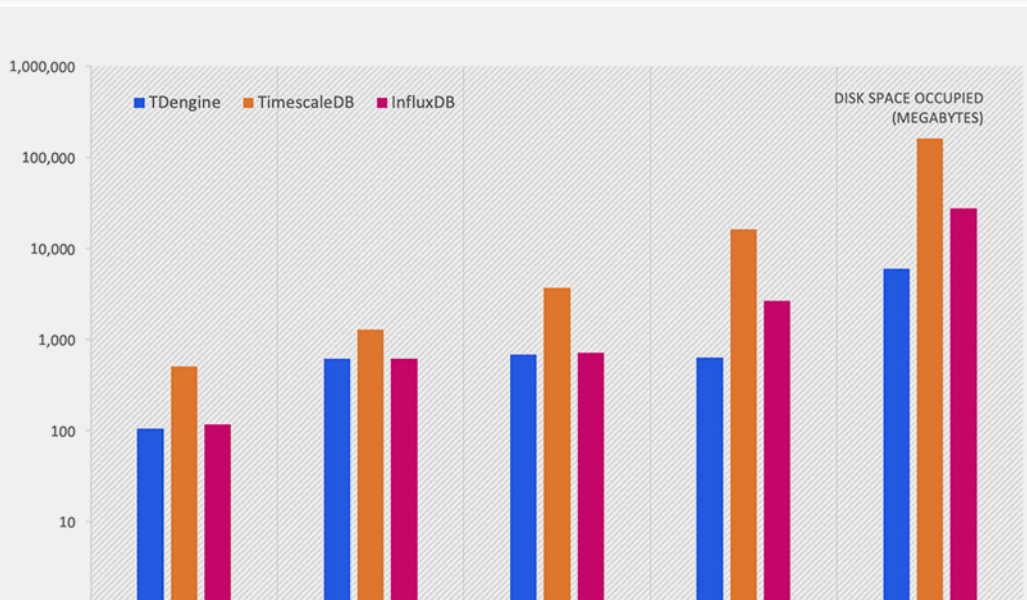■ TDengine ■ TimescaleDB ■ InfluxDB

PERCENTAGE OF CPU RESOURCES CONSUMED

100%
75%
50%
25%
0%

0 MIN · 1 MIN · 2 MIN · 3 MIN · 4 MIN · 5 MIN · 6 MIN · 7 MIN · 8 MIN · 9 MIN · 10 MIN · 11 MIN

QUERY PERFORMANCE

TDengine is significantly faster than InfluxDB and TimescaleDB, especially for complex scenarios.

■ TDengine ■ TimescaleDB ■ InfluxDB

AVERAGE RESPONSE TIME (MILLISECONDS)

25,000
20,000
15,000
10,000
5,000
0

DOUBLE-GROUPBY-1 · DOUBLE-GROUPBY-5 · DOUBLE-GROUPBY-ALL

DISK STORAGE

With its unique data model and architecture, TDengine requires less disk space to store your data.

■ TDengine ■ TimescaleDB ■ InfluxDB

DISK SPACE OCCUPIED (MEGABYTES)

1,000,000
100,000
10,000
1,000
100
10
1

100 DEVICES · 4,000 DEVICES · 100,000 DEVICES · 1 MILLION DEVICES · 10 MILLION DEVICES

SEE FOR YOURSELF

Check out the benchmarks blog for the full report and simple instructions on how to run the test independently. You can also experience TDengine now with a free account, or contact us for a demo customized for your industry.