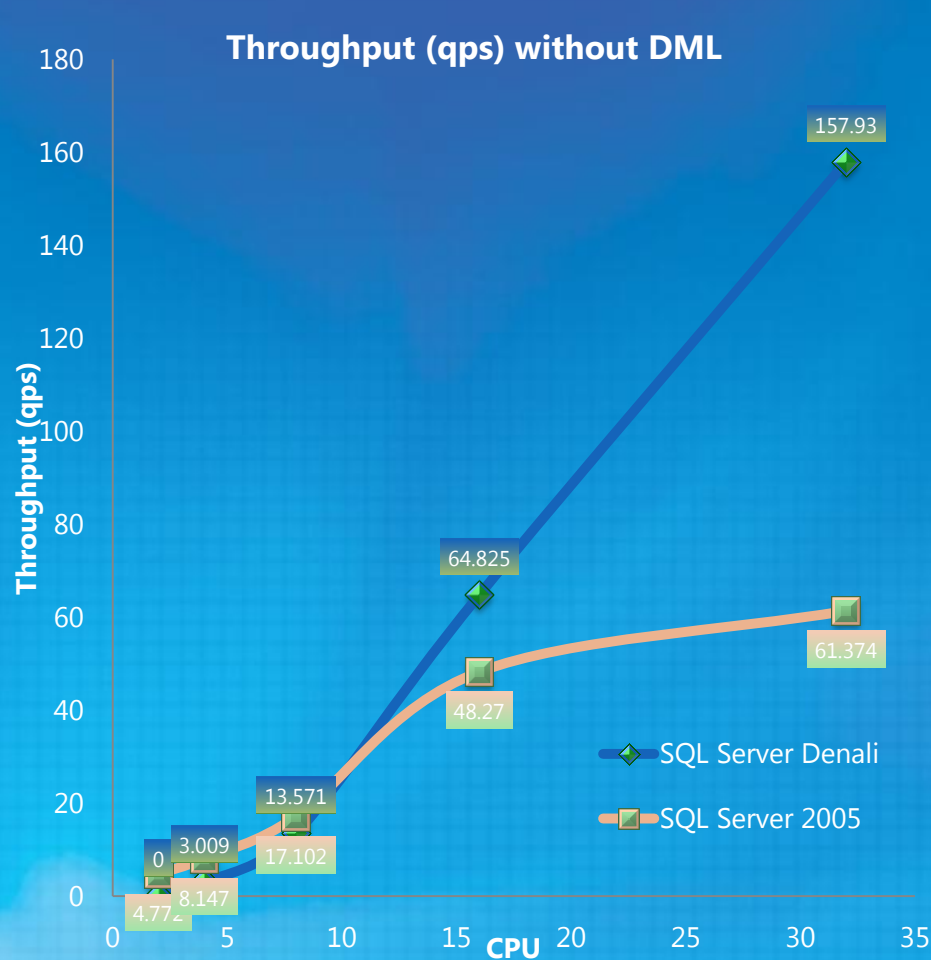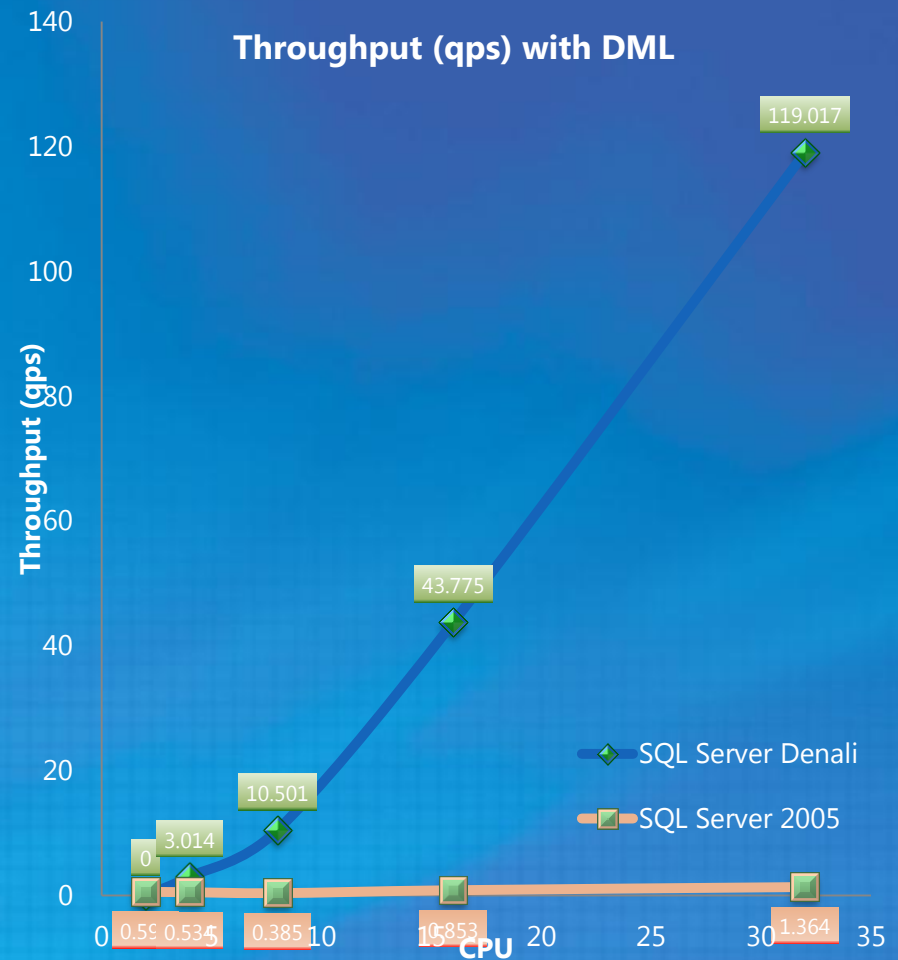# Performance & Scale Goals

- Scale up to 350M documents
- Query magnitudes faster than 2008 release
- Worst-case Query response time < 3 sec
- At par or better than key DBMS players

Query Throughput on 350M Documents
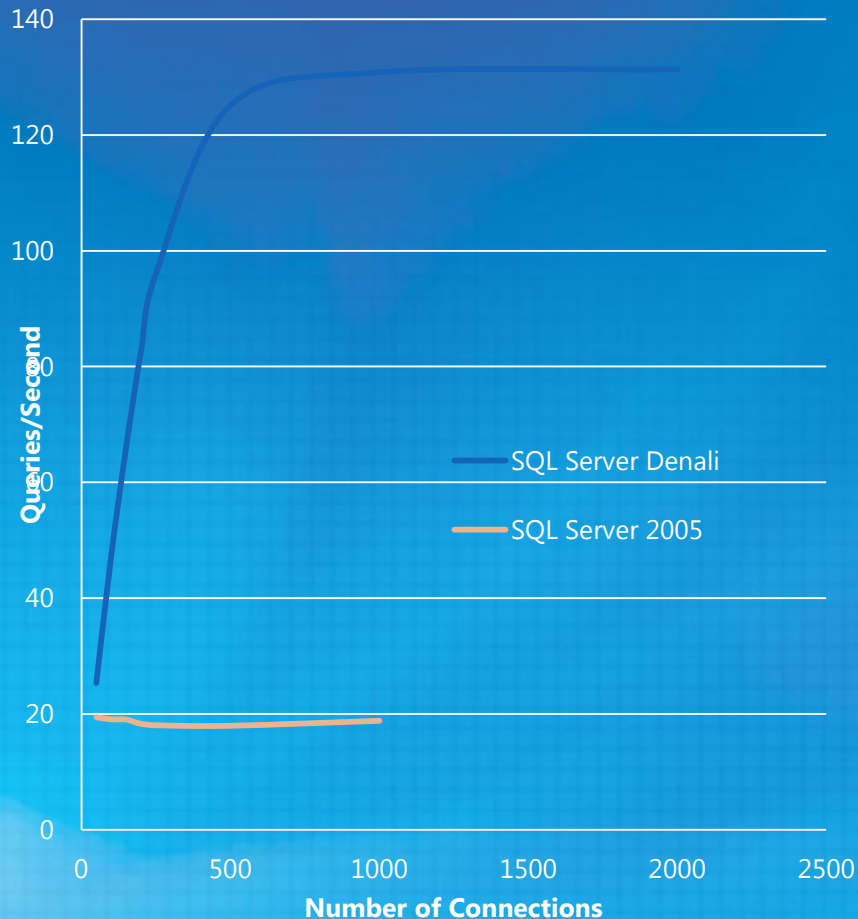

Throughput (qps) without DML

- SQL Server Denali
- SQL Server 2005

Data points: 0, 3.009, 4.77, 8.147, 13.571, 17.102, 48.27, 64.825, 61.374, 157.93

Throughput (qps) with DML

- SQL Server Denali
- SQL Server 2005

Data points: 0, 0.59, 0.534, 3.014, 0.385, 10.501, 0.853, 43.775, 1.364, 119.017
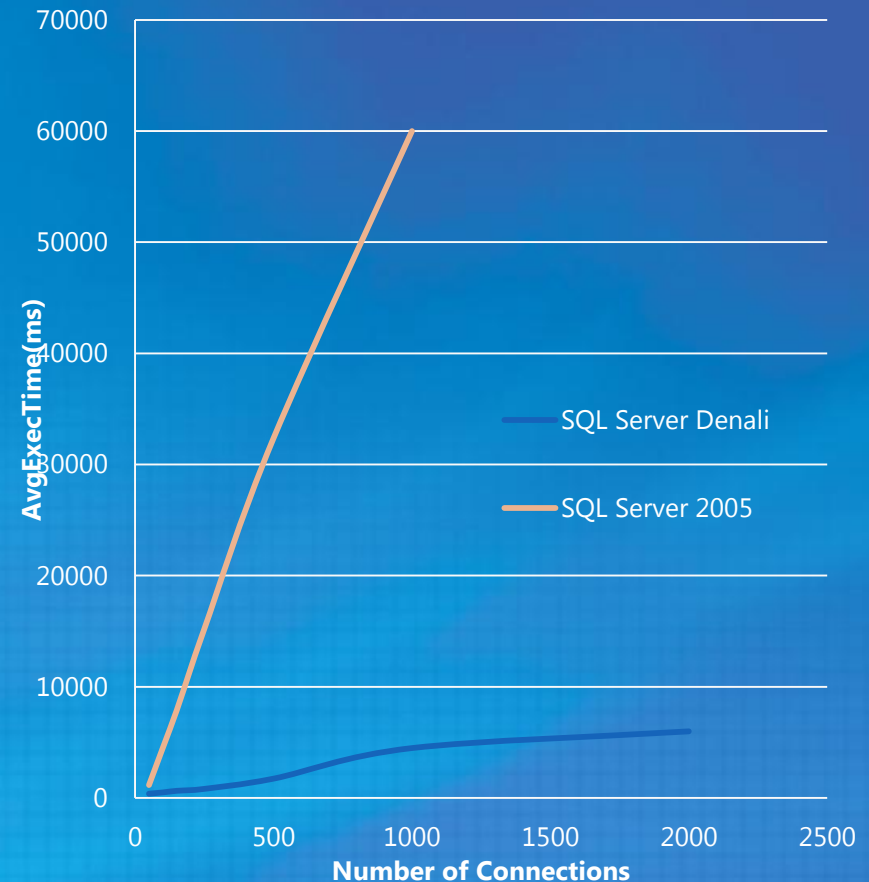
Throughput & Execution Time on a Customer Workload

Throughput/#Connections

AvgExecTime (ms)/#connections

Query Throughput on another Customer Workload

Scaling Queries/Seconds

Chart: Queries / Seconds (y-axis, 0–9) vs Users (x-axis, 0–450)

- SQL Server Denali
- SQL Server 2005
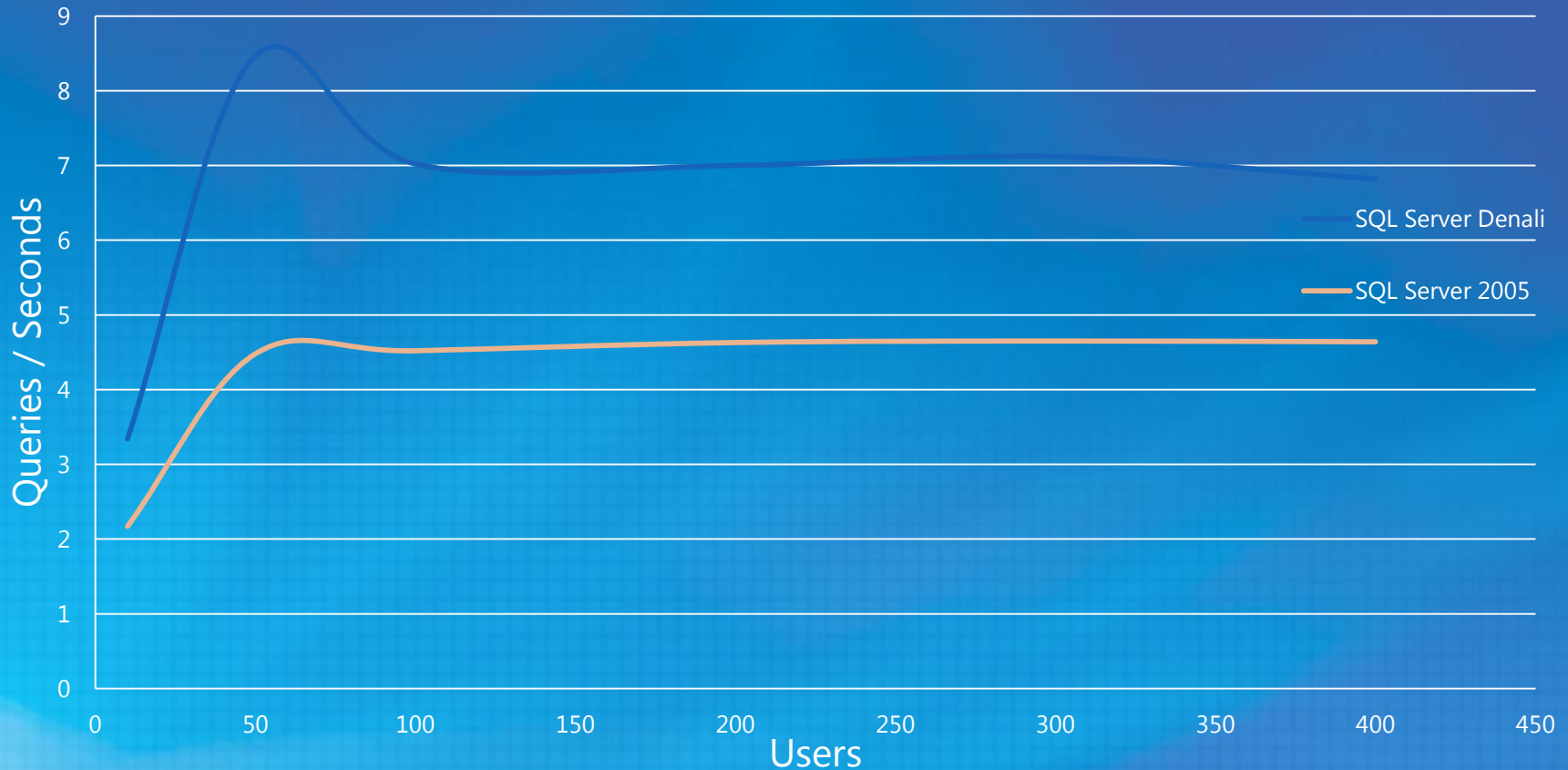
2X Query performance improvement compared with SQL Server 2005

Performance & Scale Summary

- Index and Query tested on scale up to 350Million documents with < ~2 Sec Response
    - ~3X better w/o DML and ~9X better w DML throughput
    - Scale easily with increasing number of connections

- TAP customers already reporting significant performance improvement on their workloads