TPC-H performance measure

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1 概要

- $\bullet~ \mathrm{DBMS}: \mathrm{PostgreSQL}~9.2$
- RAID0: iodrive x8 (chunk size = 64KB)
- 各テーブルの primary key 上に B-tree index を構築
- Scale Factor = 100
- shared buffer = 8GB
- 各クエリの実行時の状況を iostat と mpstat で 1 秒おきに監視

2 Query 実行中の sys の内訳分析

2.1 RAID0 (iodrive x8) read microbenchmark

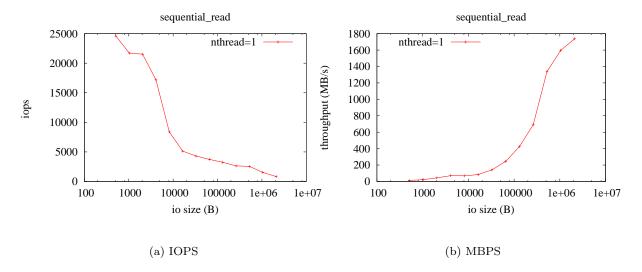
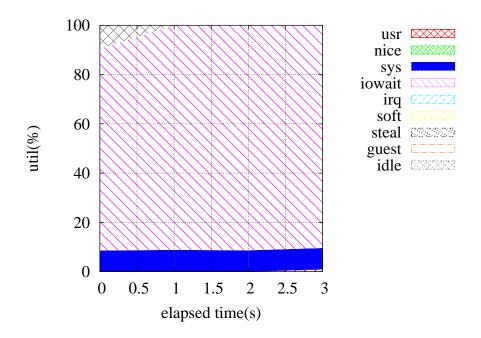
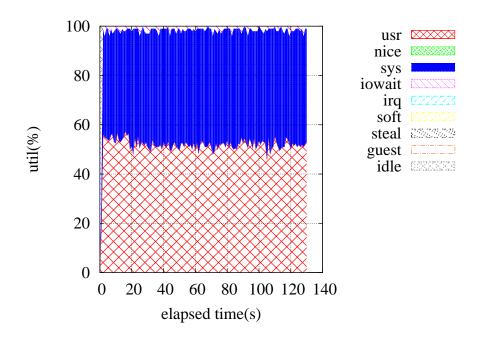
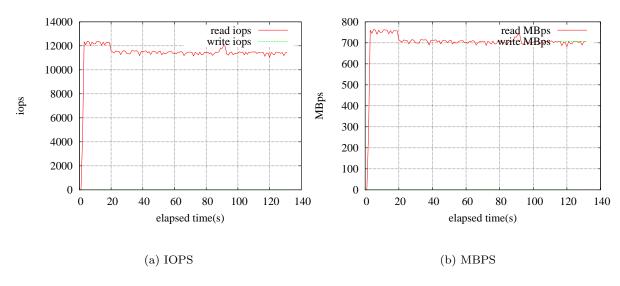


図 1 read microbenchmark



2.2 Query: count lineitem





3 index scan on lineitem (I_shipdate)

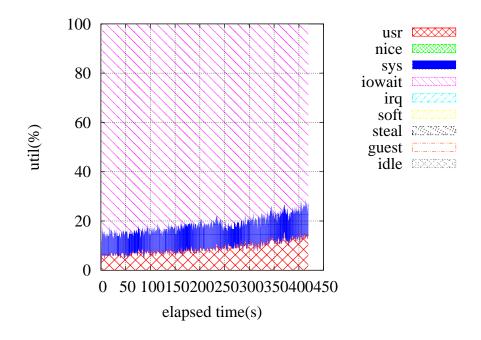


図 5 cpu utilization

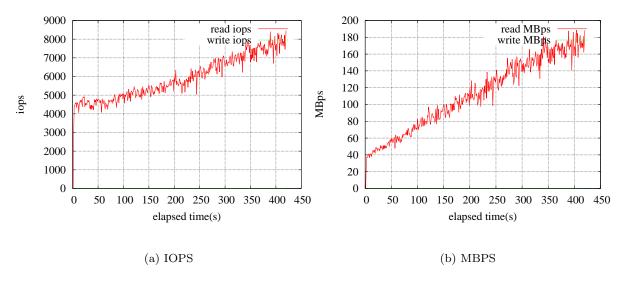


図 6 IO spec