Portland PostgreSQL Users Group
November 21, 2006
Mark Wong
markw@osdl.org

Where do I work?

OSDL (Open Source Development Labs, Inc., http://www.osdl.org/)
    To accelerate the deployment of Linux for enterprise computing through:
        Enterprise-class testing and other technical support for the Linux \
        development community.
        Marshalling of Linux-industry resources to focus investment on \
        areas of greatest need thereby eliminating inhibitors to \
        growth.
        Practical guidance to our members - vendors and end users alike - \
        on working effectively with the Linux development community.

What do I do at OSDL?

   Analyze database systems using real-world workloads with open source software on Linux(R).

Real-world Workloads

TPC (Transaction Processing Performance Council)
   "The TPC defines transaction processing and database benchmarks and \
            delivers trusted results to the industry."
   http://www.tpc.org/
            TPC-W is a transactional web e-Commerce benchmark.
            TPC-C is an on-line transaction processing benchmark.
            TPC-H is an ad-hoc, decision support benchmark.
            TPC-App is an Application Server and web services benchmark.
            TPC-E is the next generation on-line transaction processing benchmark.

Database Tests

We use more ambiguous names than the TPC.

    DBT-1 (TPC-W)
    DBT-2 (TPC-C)
    DBT-3 (TPC-H)
    DBT-4 (TPC-App)
    DBT-5 (TPC-E)

A closer look at DBT-2...

   Most popular kit...

DBT-2 Schema

DBT-2 Sizing

DBT-2 Transactions

New Order (45%)
    9-19 SELECT
    3 INSERT
    2 UPDATE
Payment (42%)
    4 SELECT
    1 INSERT
    3 UPDATE
Delivery (4%)
    10-30 SELECT
    0-30 UPDATE
    0-10 DELETE
Order Status (4%)
    4 SELECT
Stock Level (4%)
    2 SELECT

What are vendors trying to sell?

IBM_595_20060808_es.pdf

Something closer to what I have in the lab...

HPIntegrity_rx4640_041108_ES.pdf

Where is open source software?

How does PostgreSQL compare?
What to look at in order to get better...