When new, upgraded or migrated systems and applications in databases are not tested properly, organizations are unlikely to attain the goals they’ve set for performance and availability in their IT infrastructures. Often, these organizations then must contend with frustrated customers and end users who are affected by poor performance.

Benchmark Factory® for Databases is a performance and code scalability testing tool that simulates users and transactions on the database and replays production or synthetic workload in non-production environments. This enables developers, database administrators and quality assurance teams to:

- Replay production or synthetic activity in test or development environments
- Easily perform load tests on SQL scripts, PL/SQL, T-SQL code, and stored procedures under different concurrent user configurations
- Simulate real database application workloads using out-of-the-box industry standard benchmarks
- Determine system throughput and find database breaking points

With Benchmark Factory, organizations reduce the amount of time spent troubleshooting production issues and can quickly implement new applications. Benchmark Factory is available for Oracle, SQL Server, DB2, Sybase, MySQL and other databases via ODBC connectivity.
Database Workload Generation

Benchmark Factory allows you to take production or synthetic activity and replay it in test or development environments to simulate real-world production loads. This empowers users to understand future performance problems and do “what-if” analyses using actual transaction workloads.

Database Code Scalability Testing

With Benchmark Factory you can easily perform load tests on SQL scripts, PL/SQL, T-SQL code and stored procedures under different concurrent user configurations to evaluate how applications perform when deployed with real activity. Benchmark Factory also integrates with Quest’s SQL Tuning products to fix any code performance issues found prior to production deployment.

Industry-Standard Benchmark Testing

Benchmark Factory enables you to simulate real database application workloads using out-of-the-box industry-standard benchmarks (TPC-H, TPC-C, TPC-D, ASP3AP and scalable hardware) to evaluate database scalability, test hardware/configurations and determine system throughput.

Virtual User (VU) and Transaction Load Simulation

Benchmark Factory propagates user and transaction workloads on the system-under-test to quantify application or server performance, determine system throughput and find database breaking points. Each user and transaction acts as a separate, independent thread with its own connection and statistics, including run times and transactions per second.

Practical Applications:

- **Evaluates Oracle RAC configurations to help determine the correct number of RAC nodes to deploy – a major challenge when deploying RAC environments.** By replaying real production activity, you can balance workload and evaluate scalability thresholds in already-implemented environments. Through integration with Quest’s Spotlight® on RAC, you have detailed performance metrics. Quest’s solution minimizes implementation and maintenance costs of Oracle RAC environments.

- **Facilitates migration to Microsoft SQL Server 2005 and Oracle 10g.** By replaying production workload from your previous SQL Server or Oracle version on a new version test database, you can determine user and transaction load capacity and processing speed before you deploy to production. Using Benchmark Factory with Quest’s Toad® for Oracle, SQL Server and DB2, you can also tune database code for optimal performance to increase the success of migrations.

About Quest Software, Inc.

Quest Software, Inc., a leading enterprise systems management vendor, delivers innovative products that help organizations get more performance and productivity from their applications, databases, Windows infrastructure and virtual environments. Through a deep expertise in IT operations and a continued focus on what works best, Quest helps more than 90,000 customers worldwide meet higher expectations for enterprise IT. Quest provides customers with client management as well as server and desktop virtualization solutions through its subsidiaries, ScriptLogic and Vizioncore. Quest Software can be found in offices around the globe and at www.quest.com.