



BEZVision Extends Load Testing Effectiveness

Solution Note

Load Testing Limitations

In general, load testing tools provide “what-if” change flexibility in two areas:

1. Changing the mix of transactions that are run within the test
2. Changing the number of concurrent user sessions that are run within the test

The hardware environment that the load testing runs against and the database size, database architecture and application environment settings are typically outside of the load testing tool’s control. Of course, the user running the tests can alter these factors if they have the knowledge, but this can be a very time consuming effort. Realistically, very few modifications can be made in these areas due to time and budget constraints.

The Load Testing Process

The load testing process typically proceeds as follows:

1. Set up the environment
2. Run the various load tests
3. Analyze and interpret the results

Set up time can be hours, days or weeks between tests depending on which factors need to be changed. Evaluating different hardware options may take even longer. Each set of results needs to be analyzed independently to fully understand the differences.

How BEZVision Can Help

BEZVision™ can readily monitor the same load testing environment, capture the performance results of load test activity and record the actual configuration details associated with each test. BEZVision then provides you with the ability to alter many factors of the test results through its powerful built-in prediction engine to simulate the performance impact of the changes. This can be accomplished without having to rerun any additional tests or alter the base environment in any way.

The BEZVision process typically proceeds as follows:

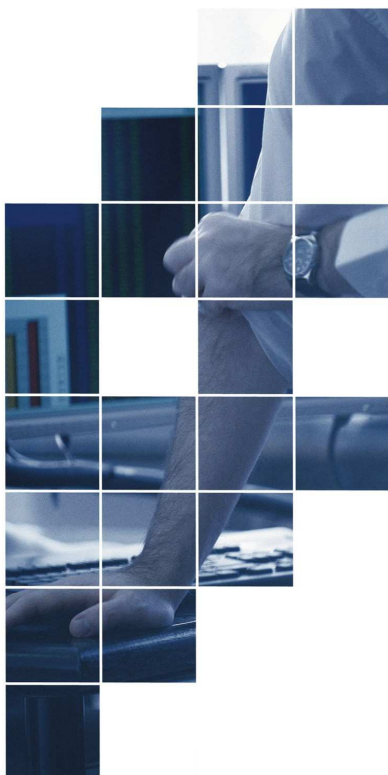
1. Record the load test
2. Apply “what-if” changes to the results
3. Compare alternatives with one another in real time

Key Benefits:

- Simulation of changes can take seconds (minutes at most) to accomplish
- Unlimited changes in concurrent user activity, database size expectations and hardware configurations can be evaluated in seconds
- Any combination of changes can be evaluated against each other

“IT management needs to be **proactive and focus on results that matter to the business, such as, consistent service delivery.** Solutions such as the BEZ PPM platform are a big step in that direction.”

**Jasmine Noel
Ptak, Noel & Associates**



- NO physical hardware or architecture changes are required to run the subsequent tests
- Thousands of standard hardware, interconnect, storage and disk configurations can be evaluated through the point and click interface
- Side-by-side comparison of results are available in the product
- BEZVision offers additional change factors to be considered as well:
 - ✓ Database schema modifications (index or materialized view alterations)
 - ✓ Database memory pool adjustments
 - ✓ Database size growth implications
 - ✓ Migrating this new load test workload into an existing production environment
 - ✓ Activity growth
 - ✓ Hardware changes (CPUs, CPU speed/quantity, number of nodes, vendor, model, etc.)
 - ✓ Change the number of JVMs supported per node
 - ✓ Move JVMs to different nodes
 - ✓ Change thread pool configuration
 - ✓ Change connection pool configuration
 - ✓ Adjust the ratio of backend requests per user transaction

About BEZ Systems

Since 1993, BEZ Systems has been applying advanced analytics and modeling technology to IT performance issues. Analytics aggregate current and historic performance data into meaningful business workloads and modeling provides IT management with historic, current and over-the-horizon views of workload service levels. The results provide IT decision-makers with the time and information to make informed business decisions, deploy resources more efficiently, and ensure that service delivery to the business is insulated from the chaotic effects of constant change.

