Borland® SilkPerformer® is a powerful—yet easy-to-use—enterprise-class load and stress testing solution for optimizing the quality of mission-critical applications. Visual script generation techniques and the ability to test multiple application environments with thousands of concurrent users allow you to thoroughly test an enterprise application's reliability, performance and scalability before it's deployed, regardless of its size and complexity. Powerful diagnostic tools and management reports help you isolate problems and make quick decisions, thereby minimizing test cycles and accelerating time-to-market.
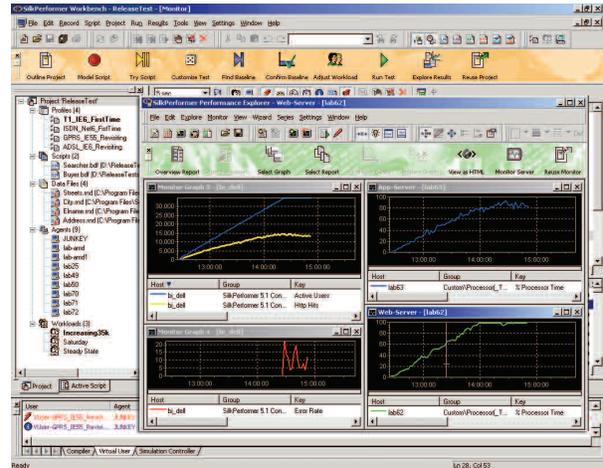
Borland SilkPerformer executes load tests and monitors results in real time.

FEATURES AND BENEFITS

REDUCE THE RISK OF MISSING APPLICATION PERFORMANCE GOALS

SilkPerformer ensures the quality of business-critical enterprise applications by measuring their performance from the end-user perspective, as well as internally, in a variety of scenarios under dynamic load conditions. During enterprise application development, SilkPerformer helps you to:

- Easily and accurately assess and report application performance characteristics before deployment
- Create realistic and reproducible test scenarios that result in sufficient test coverage
- Uncover the root cause of performance problems quickly and easily
- Lower IT infrastructure costs through tuning and accurate capacity planning before deployment

POWERFUL SIMULATION CAPABILITIES

Using its innovative TrueScale technology, SilkPerformer can simulate thousands of concurrent users with a single computer—providing you with the power required for visual content verification while consuming minimal hardware resources. When required, load test agents located at remote test centers can be utilized without compromising firewall integrity.

Within a single load test, virtual users working with different Internet, middleware and database protocols—in addition to varied computing environments—can be simulated. Support for multibyte character sets and UTF-8 allows the testing of internationalized applications that utilize Unicode®. Client IP address simulation allows for the testing of load-balanced sites. The Benchmark Description Language (BDL) of SilkPerformer is designed specifically for testing purposes and provides an easy and powerful means of controlling user activitiy.

Web pages are requested by emulating the request behavior of a real user (for example, cancellations) and by accurately simulating the connection behavior, cookie management and caching strategies of browsers. Meanwhile, TrueModem technology and realistic workload models complement the unmatched accuracy of SilkPerformer. Verification under load ensures that functional errors such as incorrect Web page content are detected reliably—under all load conditions. And industry-standard interfaces for extensibility mean that Borland SilkPerformer can be used in scenarios for which out-of-the-box functionality is not sufficient.

RELEVANT TESTING EARLY IN DEVELOPMENT

Dramatically reduce the cost of bugs in multi-tier enterprise applications by testing the functionality, interoperability and performance of remote application components under concurrent access early in the development cycle—even before client applications have been built. You can rapidly generate test drivers for Web services, .NET and COM+ server

FEATURES AND BENEFITS (Continued)

components as well as Enterprise JavaBeans (EJB) and Java™ RMI objects by exploring them via a point-and-click interface. Alternatively, you can directly import JUnit/NUnit tests written by developers for concurrency tests or build new test cases directly in Java and other .NET languages, such as C# and VB.NET, using the SilkPerformer Java Editor or Visual Studio add-in.

EFFICIENT TEST CREATION AND TEST CYCLES

SilkPerformer facilitates testing while taking no shortcuts in quality:

- Use the SilkPerformer Integrated Test Environment as your single point of control
- Discover ease of use with the built-in methodology based on step-by-step workflow wizards
- Automatically generate scripts that include content verifications and JavaScript handling—virtually eliminating the need for manual scripting
- Easily customize tests with random user data—without programming a single line of code
- Reuse test cases in different environments and scenarios without changing test scripts
- Handle version control of test scripts via Borland® StarTeam® or any other SCCI compliant tool
- Quickly create realistic workloads by using the integrated workload wizard
- View your load test health in real time—thereby avoiding invalid test results that require time-intensive test case reruns

VISUAL CLIENT-SIDE DIAGNOSTICS

The unrivaled TrueLog™ technology of SilkPerformer provides visual front-end diagnostics from the end-user perspective. TrueLog visually re-creates the data that users provide and receive during load tests—for HTML pages this includes all embedded objects—enabling you to visually analyze the behavior of your application as errors occur during load tests. Plus detailed response timer statistics help you uncover the root causes of missed service levels before your application goes live.

VISUAL SERVER-SIDE DIAGNOSTICS

With the addition of the Server Analysis Module, you can monitor server statistics and automatically correlate data with load test results to identify ongoing problems with your system's back-end servers—even when servers are located behind firewalls. Because SilkPerformer integrates with deep diagnostics tools, bottlenecks can be pinpointed down to the actual line of code in the J2EE™/.NET application layer.

REPORTING AND TEST MANAGEMENT

SilkPerformer automatically creates a Web-based Overview Report after each test run, which is easy to customize, reuse and share, especially when integrated with Borland® SilkCentral® Test Manager.

The bidirectional integration that SilkPerformer shares with the Borland® SilkCentral® Test Manager enhances productivity, traceability and visibility of load testing projects. Assets, such as test scripts and test results, can be stored within SilkCentral Test Manager, providing a central point of control for managing quality-related activities and visibility into the application's overall performance level, which decision makers can easily understand.

SYSTEM REQUIREMENTS

SOFTWARE
- Microsoft Windows® 2003, Windows XP, Windows 2000

HARDWARE
- Intel Pentium 4 or equivalent CPU
- 512 MB RAM (1024 MB recommended)
- 10 MBit Ethernet (100 MBit recommended)

SUPPORTED ENVIRONMENTS

SUPPORTED PROTOCOLS AND INTERFACES FOR LOAD TESTING
- HTTP(S)/HTML, Unicode (UTF-8), SOAP (XML), WAP2 (WTLS, MMS), i-mode, streaming media (MS, Real), Macromedia AMF, FTP, LDAP, MAPI, IMAP, SMTP/POP, SSL, CORBA (IIOP), Java RMI (EJB/J2EE), .NET Remoting, (D)COM, Oracle® Forms, Citrix ICA, ODBC, ADO, Oracle Call Interface (OCI), DB2 CLI, TCP/IP, UDP, Jolt, Jacada, TN3270E, TN5250 and VT100/200+

OPEN INTERFACES
- .NET Framework, Java Framework, VB Framework, COM Interface, DLL Interface

PACKAGED APPLICATIONS (CRM/ERP)
- SAP, PeopleSoft, Siebel, Oracle Applications,

REAL-TIME SERVER MONITORS
- Windows and UNIX® system/network counters, SNMP, server counters for Microsoft IIS, Apache, IBM WebSphere, BEA WebLogic, Oracle, IBM DB2, Microsoft SQL Server and others

ABOUT BORLAND

Borland Software Corporation is the global leader in platform independent solutions for Software Delivery Optimization. The company provides the software and services that align the people, process, and technology required to maximize the business value of software.