HP LoadRunner software is cost-effective software for performance validation. Generate load. Diagnose problems. Deploy with high quality.

Predict system behavior and application performance.

How do you know whether your mission-critical applications meet the performance and scalability that your business requires? How do you decrease the risk of poor performance or catastrophic failure when deploying a multi-user system? Are your applications giving the best possible performance?

Enterprise applications are increasingly complex and with new Web 2.0 technologies there are many moving parts, which can easily become points of failure if not tested prior to deployment. HP LoadRunner software is a uniquely comprehensive testing solution for predicting system behavior and performance used by thousands of businesses around the world. It enables an efficient and robust means to verifying that your application’s architecture is built for more efficient performance and reliability.

HP LoadRunner helps you:

• Obtain an accurate picture of end-to-end system performance before going live.
• Verify that new or upgraded applications meet specified performance requirements.
• Identify and reduce performance bottlenecks during the development lifecycle.

How HP LoadRunner works

Using minimal hardware resources, HP LoadRunner emulates hundreds or thousands of concurrent users to apply production workloads to almost any application platform or environment. HP LoadRunner stresses an application from end-to-end—applying consistent, measurable, and repeatable loads—then uses the data to identify scalability issues that can affect real users in production.

As it drives load against the system, HP LoadRunner captures end-user response times for business processes and transactions to determine whether the application can meet the required service-level agreements (SLAs). Non-intrusive, real-time performance monitors obtain and display performance data from every tier, server, and system component. Use a diagnostics probe to gather code-level data, isolate bottlenecks at the method level, and inspect individual structured query language (SQL) statements. This combination of end-user, system-level, and code-level visibility dramatically reduces time to problem resolution.

After the load test completes, the HP LoadRunner analysis engine provides a single view of end-user, system-level, and code-level performance data. It includes a patented AutoCorrelation engine to scan end-user, system, and diagnostics data and provide the most likely causes of system slowdown. This helps your engineers to quickly determine whether they have met their performance goals, and if not, why not and who owns the problem.
Deliver enterprise load generation, monitoring, and diagnostics.
HP LoadRunner supports performance testing for a wide range of application environments and protocols, including Web, SOA and Web Services, Ajax, RDP, Database, Terminal, Citrix, Java™, .NET, and all major ERP and CRM applications, including PeopleSoft, Oracle®, SAP, and Siebel. HP LoadRunner has more than 60 non-intrusive monitors tailored for these systems and provides diagnostics for any applications running on J2EE or .NET platforms, which includes Siebel, Oracle, and SAP.

Reduce scripting time by 80 percent.
HP LoadRunner can reduce the script-creation process, even to just a few simple mouse clicks. The new Click and Script technology lets you record scripts at the user-interface level by clicking on screens for automatic script generation, making the scripting process easier. It automatically captures the most valuable scripting information to create succinct, visually intuitive, and self-explanatory scripts, reducing scripting time and maintenance by an average of 80 percent. These scripts are also easier to maintain, allowing you to look at the scripts, quickly see what is happening in each statement, and focus on the elements to modify for another test.

Support the application lifecycle.
To enable load testing earlier in the application lifecycle, HP LoadRunner integrates with the leading J2EE, Microsoft® Visual Studio®, and Microsoft .NET environments. This integration lets you create HP LoadRunner scripts directly within the IDE, so developers can participate in the performance testing efforts earlier. In addition, HP Diagnostics Profiler software allows developers to view and debug performance issues at the code level within their development environments and desktops.

To facilitate intelligent release decisions, HP LoadRunner is integrated with industry-leading quality software, such as HP QuickTest Professional software and HP Quality Center software. Leveraging these complementary products together with HP LoadRunner provides a comprehensive solution for managing release risk, so you can make informed decisions prior to going live.

Application performance and service-level management doesn't end when load testing is done. In fact, service-level management begins when the system goes live. During the transition from pre-release to production, you can use HP LoadRunner scripts within HP Business Availability Center software to monitor application performance, availability, and service levels in production under real-user workloads.
These integrations, both upstream into development and downstream into production, make HP LoadRunner a platform for performance engineering across the application lifecycle.

**Key features and benefits**

- Supports performance testing of new technologies together with your existing, legacy applications
- Decreases the risk of deploying systems that do not meet performance requirements
- Reduces hardware and software costs by accurately predicting application scalability and capacity
- Helps you establish intelligent service-level management before services go live
- Shortens test cycles to accelerate delivery of high-quality applications
- Pinpoints end-user, system-level, and code-level bottlenecks rapidly and with ease
- Reduces the cost of defects by testing earlier in the application lifecycle

**HP LoadRunner Analysis**

A view of HP LoadRunner Analysis cross-results trending capabilities, showing a comparison of increased system scalability and optimized response time performance.

**HP Services**

Get the most from your software investment. HP provides high-quality software services that address all aspects of your software application lifecycle needs. With HP, you have access to standards-based, modular, multi-platform software coupled with global services and support. The wide range of HP service offerings—from online self-solve support to proactive mission-critical services—enables you to choose the services that best match your business needs.

For an overview of HP software services, visit [www.managementsoftware.hp.com/service](http://www.managementsoftware.hp.com/service).

To access technical interactive support, visit Software Support Online at [www.hp.com/managementsoftware/services](http://www.hp.com/managementsoftware/services).

To learn more about HP Software Customer Connection, a one-stop information and learning portal for software products and services, visit [www.hp.com/go/swcustomerconnection](http://www.hp.com/go/swcustomerconnection).
A complete solution

Comprehensive training
HP provides a comprehensive curriculum of HP Software and IT Service Management courses. These offerings provide the training you need to realize the full potential of your HP solutions, increase your network optimization and responsiveness, and achieve better return on your IT investments.

With more than 30 years experience meeting complex education challenges worldwide, HP knows training. This experience, coupled with unique insights into HP Software products, positions HP to deliver the optimum training experience. For more information about these and other educational courses, visit www.hp.com/learn.

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