The BEA and HP Alliance

HP NonStop servers running BEA WebLogic Server

Scalable and reliable HP NonStop servers and industry-leading BEA WebLogic Server software combine to make a revolution in e-business computing.

HP NonStop servers and BEA WebLogic Server

For critical Java technology–based applications today, the combination couldn't be more powerful: HP NonStop servers and BEA WebLogic Server.

HP NonStop technology sets the standard for continuously available, reliable, and scalable transaction processing. For almost three decades, NonStop servers have handled the most demanding computing environments—from the first electronic payment networks and online stock-trading systems, to telecommunications networks and supply chain management systems, to online travel networks and the world's largest e-mail system.

BEA WebLogic Server™—the industry's leading Web and wireless application server—powers many of the world's most sophisticated e-business infrastructures. BEA assists more than 14,500 businesses worldwide with a comprehensive, integrated solution for building, integrating, and extending enterprise applications. Now, running on the NonStop platform, BEA WebLogic Server enables e-businesses to bring together new applications and existing software assets in a way that is adaptive, simple, easily managed, and cost-effective.

A Flexible Solution for the Agile e-business

WebLogic Server and NonStop technology are ideally suited to the complex needs of a multi-tiered application infrastructure that serves customers globally 24 x 7. NonStop servers greatly reduce the complexity of scaling WebLogic Server applications. In addition, they offer extremely high availability through application persistence, while ensuring data integrity during inevitable component failures.

WebLogic Server implements the Java™ 2 Platform, Enterprise Edition (J2EE) 1.3 platform specification, including servlets, JavaServer Pages (JSP), Enterprise JavaBeans (EJB), Java Messaging Service (JMS), and other platform services. Running on NonStop servers, these combine to offer the ultimate in reliability and agility for high-volume transaction processing.

Take a look at these key advantages of running WebLogic Server on the NonStop platform.

Mainframe-Quality Service

You simply can't afford to question how much your system can handle as transaction volumes increase dramatically, new applications and services are added, the supply chain grows, and business expands across the globe. NonStop systems are designed from the ground up for virtually unlimited growth, without compromising reliability or performance. WebLogic Server nodes can be deployed on multiple NonStop server nodes, with single system images of the WebLogic Server domains and the HP NonStop SQL database, facilitating rock-solid business continuity across the system.

Unparalleled Availability

There's a very good reason why NonStop servers are the power behind many of the world's most demanding businesses: They're designed to eliminate downtime by providing continuous application availability. Industry analyst reports by both Gartner and The Standish Group clearly show that NonStop servers lead in driving application outages to near-zero minutes per year.

Integration Your Way

The open architecture of NonStop servers makes it easy to deploy new applications as well as integrate WebLogic Server with your existing infrastructure. Standard protocols link all levels of the system. NonStop technology relies on many industry-standard development tools and application environments, including Java, CORBA, Tuxedo, Microsoft® Visual Studio and .NET, XML, and Simple Object Access Protocol (SOAP). It's easy to integrate WebLogic Server with other HP applications, including HP NonStop Tuxedo software, other J2EE applications, and BEA applications.

No Single Point of Failure

Running on NonStop servers, all WebLogic® instances are replicated so that no single component failure can cause an application outage. If a failure is detected, client requests are transparently redirected to other replicated instances. In addition, WebLogic Server constantly monitors workloads across all instances, making automatic adjustments and reassignments as needed.

Low Total Cost of Ownership

The Standish Group reports that NonStop servers deliver the lowest total cost of ownership among enterprise-class systems, including UNIX® and Windows® system–based servers, Windows NT® system clusters, and IBM mainframe servers (The Standish Group, *VirtualBEACON* report).

A Proven Record of Reliability

NonStop servers drive many key Internet sites, including the world's largest Internet service provider, many Internet-enabled brokerages and exchanges, application service providers, travel reservation services, large retail merchants, home banking services, and business-to-business applications. For almost three decades, leading financial services institutions, securities and commodities exchanges, and telecommunications companies have relied on NonStop systems for continuous application availability, supporting transactional databases approaching 100 terabytes of data.

Virtually Unlimited Scalability
The modular architecture of NonStop servers enables companies to scale from a small two-processor system to a configuration of more than 4,000 processors—with linear performance and no changes to applications. You can add processors, storage, and bandwidth independently, as needed, in the appropriate increments. This level of scalability applies not only to servers, but also to all system hardware, software, databases, middleware, and applications.

Single System Image
Whether your NonStop servers are running on two processors or several hundred distributed globally, you have a single image of the database. Data, resources, and applications are available through one enterprise-wide view, regardless of their location across multiple nodes. And critical data structures can be replicated transparently, with the goal of driving outage minutes to zero.

Business Continuity, Disaster Recovery
As part of a business continuity plan, you want to ensure that all critical files are accurately and completely replicated on a backup system. HP NonStop Remote Database Facility (NonStop RDF) software extends the NonStop server's fault tolerance to disaster tolerance by synchronizing databases that are geographically distributed across the enterprise. HP NonStop AutoSYNC software does the same for your application files. And with HP NonStop Transaction Management Facility (NonStop TMF) software, database management and tuning can be done with the application running.

Massive, Scalable Parallel Database
NonStop SQL software is an open-platform database for applications that require flexible, fast, and reliable access to information. For business-critical transaction processing and real-time data stores, NonStop SQL software is clearly the best choice, providing a parallel environment that spreads tasks evenly across every processor in the network. Should any component fail, transactions are automatically routed around that component and moved to another processor.

HP ServerNet Technology
HP ServerNet interconnect technology enables NonStop servers to deliver instantaneous response, linear scalability, massive throughput, and the highest levels of reliability and availability—as easily as a single system. NonStop ServerNet Cluster is an extension of ServerNet technology that allows two or more NonStop systems to interconnect and operate as if they were on a single ServerNet fabric.

NonStop Technology at Work

Many of the world's major industries rely on NonStop servers.

Telecommunications

- More than 135 public telephone companies currently rely on NonStop technology.
- More than half of all emergency 911 calls in the United States and the majority of wireless calls worldwide depend on NonStop servers.

Finance

- Eighty percent of all ATM transactions and 66 percent of all point-of-sale transactions worldwide are handled by NonStop servers.
- NonStop technology powers 75 percent of the world's 100 largest electronic funds transfer networks and 106 of the world's 120 stock exchanges.

Retail

- NonStop solutions for point-of-sale, e-commerce, data warehouse, and customer relationship management support 70 percent of global 100 retailers and drive more than US$3 billion in products and services.
- NonStop servers power nine of the ten top U.S. retailers with electronic payments, in-store processing, kiosks, and services.
- HP is the leading provider of in-house credit card processing and analysis for retailers.

HP NonStop servers and BEA WebLogic Server

HP NonStop servers and BEA WebLogic Server are the ideal choice for building or expanding a robust, scalable business-critical infrastructure. BEA and HP—global leaders in enterprise application integration—help businesses achieve an integrated enterprise that is adaptive, easily managed, and cost-effective. To find out more about how NonStop servers can help you stay competitive in the face of business change, go to **www.hp.com/go/nonstop**.

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