HP and GigaSpaces

GigaSpaces XAP: scaling applications to meet extreme processing demand

To efficiently and cost-effectively meet fluctuating processing demand is no longer an impossible mission

Application workload getting you down?
Across transactional application domains, the number of clients, depth of services, and volumes of data are growing quickly. At the same time, data-intensive analytics applications are moving towards near-real-time processing. Because if your business is growing, but your ability to do business is not, you're leaving opportunities on the table. Don't let your growing application workload shrink your business. Multi-dimensional changes in demand make it difficult to accurately forecast future application workload. Underestimating growth increases the risk of downtime and unacceptable latency levels, while overestimating future demand can translate to time and money wasted on unnecessary machines.

Scaling applications to meet extreme processing demand
GigaSpaces eXtreme Application Platform (XAP) is a complete middleware platform that simply and easily transforms new and existing applications into powerhouse services with limitless scalability and low-latency performance. Based on a holistic space-based architecture (SBA), GigaSpaces XAP eliminates the scalability barriers inherent in multi-tier applications by managing the data, messaging and business logic associated with a transaction on a single computer node. This innovative approach resolves application bottlenecks at all levels, dramatically reducing latency and enabling applications to scale linearly, dynamically and cost-effectively. And deployment of GigaSpaces XAP on powerful HP ProLiant clusters enables users to tackle grand-scale challenges. This combined environment delivers incredible computational and modeling power in a small, compact design that addresses issues of space, power consumption and heat generation.

Solution benefits

- Enhance decision-making – increase profit through faster decision-making, based on real-time information
- Accelerate business growth – drive revenue and profit by accelerating time to market
- Mitigate risk – meet compliance requirements by continuous assessment of portfolio risk
- Cost-effective operations – with the ability to share resources and to enhance asset utilization, GigaSpaces XAP solutions on HP ProLiant servers offer substantial reductions in operations, maintenance and IT costs
- Investment protection – GigaSpaces XAP implemented on HP ProLiant servers is highly scalable now and ready for future application needs

Working together with HP
Together with HP, GigaSpaces is advancing the power of computing with scalable solutions for high performance computation (HPC), data management and visualization. Our innovative solutions are leveraging the versatile HP ProLiant servers to deliver cost-effective supercomputing performance to a growing range of HPC users around the world. Supercomputing performance is now accessible and affordable to more teams in more applications areas, and it is the catalyst in accelerating more and faster scientific discovery around the globe.

The total cost discipline of HP ProLiant servers helps you leverage resources for even greater strategic contribution to your business. With the broadest family of investment-savvy products, you can lay the foundation for the efficiency-driven datacenter of the future. And because HP ProLiant servers are fully integrated with superior management tools that make managing your environment a snap, you can reap the benefits immediately. With HP ProLiant servers, it's easy to optimize the financial impact and value of IT—letting you focus your time, budget and talent where it matters most.

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GigaSpaces XAP

Advanced capabilities and components—such as an in-memory data grid (distributed caching), high performance messaging and parallel processing—make GigaSpaces XAP an ideal solution for the most demanding applications and environments including:

- Extreme transaction processing (XTP)
- Real-Time Analytics
- High-performance service-oriented architectures (SOAs)
- Large-scale web applications

GigaSpaces XAP uses the open and standards-based OpenSpaces Framework as the primary programming model, providing a simple, non-intrusive Application Programming Interface (API) that allows developers to write applications in Plain Old Java™ Objects (POJOs). In addition, GigaSpaces provides APIs for plain .Net and C++ objects.

Reduce cost and complexity

The HP ProLiant server makes it fast and easy to deploy, customize and grow your business technology infrastructure on your terms. When configured with HP ProLiant servers running Microsoft® Windows® or Linux, you get proven server reliability and innovation in an industry-standard platform that improves operational efficiency while managing complexity and risk. With HP StorageWorks storage arrays, you also gain simple storage expansion and flexible data protection. And take complete control of your server infrastructure from anywhere at any time using HP Insight Control management software—tools that give you the confidence to reliably deliver stable IT infrastructure.

Service and support

Working with HP Services, GigaSpaces provides you with a complete portfolio of services tailored to your unique business and IT needs. We leverage the proven methodologies and expertise of over 65,000 HP services professionals around the world to help your company design, build, integrate, manage and evolve an HP ProLiant infrastructure that lets you respond to business changes easily and cost-effectively.

Driving better business outcomes

By choosing GigaSpaces software on the HP ProLiant server, you can accelerate growth and mitigate risks with a simplified, consolidated infrastructure that's agile to efficiently handle change. And you can lower costs through automation, virtualization and improved IT efficiency. Together, we drive better business outcomes by making business technology a major contributor to your bottom line.

For more information, visit www.hp.com www.gigaspaces.com

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