



## Platform Symphony 4 for the IBM BladeCenter® QS22

### Unleashing the Power of Cell Broadband Engine™ Technology

#### Platform Symphony Benefits:

- Enhance Application Performance
- Empower developers to deploy applications quickly
- Go Green - improve energy efficiency
- Increase server utilization, reduce IT costs

#### Ideal for customers who:

- Want to identify and dominate pools of liquidity faster than the competition
- Are concerned that high cost, low utilization, non-scaling infrastructure is impeding their ability to perform complex financial analytics
- Need to address business needs while addressing datacenter issues including limited power, cooling, space and compute capacity

#### Overview

As businesses strive to better manage their risks, offer new and more complex products, and execute faster, they need real-time answers to highly complex computations. Financial Services firms are under increasing pressure to grow revenue and market share amidst intense competition, regulations, and the growing need for enterprise risk management. At the same time, customers are struggling to lower the total cost of ownership of resources while running a green eco-friendly data center.

Organizations implementing IBM BladeCenter QS22 with IBM PowerXCell™ 8i processors to drive extreme performance for compute-intensive pricing and risk applications will benefit from Platform Symphony which is designed to take advantage of this innovative, third generation Cell Broadband Engine (Cell/B.E.™) technology. Widely deployed in Financial Services, Platform Symphony enables real-time pricing, VaR, and Monte Carlo simulations to better manage risk and gain competitive advantage, across portfolios and across Lines of Business.





Most server farms operate below 30% capacity utilization and are over provisioned, significantly increasing data center costs, including energy (power and cooling), real-estate and maintenance. This solution can increase server and cluster utilization up to 95%, thereby removing tens of millions in costs and optimizing energy efficiency

### Achieve application performance objectives

Platform Symphony for the QS22 is the only High Performance Computing (HPC) service-oriented solution that enables developers to quickly accelerate their compute-intensive applications with one or more clustered QS22 blades. Developers can achieve application performance objectives through a single, high-level programming paradigm. Applications that have already been Platform Symphony-enabled, can leverage Cell/B.E. technology-based blades with no code changes. With Platform Symphony for the BladeCenter QS22, traders can run portfolio simulations much faster – reducing time to results by up to 80 percent.

### Solid foundation for utility computing

For organizations that deploy multiple applications, IT managers count on Platform Symphony as the only utility computing foundation to meet line of business objectives. Platform Symphony eliminates the complexity of managing a shared pool of nodes, enabling enterprise-class resource sharing, availability, security, and scale. You can share resources among different applications to achieve high utilization in the most heterogeneous environments built with a mix of programming languages, operating systems and hardware, including x86 and IBM PowerXCell™ 8i processors.

### Cost savings through energy efficiency

Platform Symphony and the QS22 enable extremely high performance with low energy consumption. The joint solution is extremely energy efficient, effectively reducing hardware requirements while increasing resource utilization and throughput. Platform Symphony also enables the infrastructure to be shared by multiple applications, further reducing infrastructure costs while delivering energy costs savings.

### Build and deploy production-ready applications

Platform Symphony for the QS22 makes it easy for application developers to build and deploy their HPC service-oriented applications. Once an application has been Platform Symphony-enabled, a simple configuration exercise provides production-readiness on QS22 blades so developers don't need to worry about discovery and allocation of SPEs and other lower level operations. You can download Platform Symphony for the Cell/B.E. technology, install it and run an application in under an hour.

### Speed at any scale

Platform Symphony is the fastest solution for accelerating compute and data intense applications across a grid of heterogeneous nodes that scales from one to tens of thousands of nodes. Platform Symphony for the QS22 takes full advantage of the Cell Broadband Engine Architecture. This allows Platform Symphony to optimize application performance by enabling near 100 percent utilization of all 18 cores on a QS22 blade containing two IBM PowerXCell™ 8i processors.

### Dynamic workload management

Service Level Agreement (SLA) driven scheduling policies allow you to dynamically allocate Synergistic Processor Elements (SPE) to the most important work. Simple User Interfaces (UI) allow users to suspend, resume, change priority and terminate computations on the fly.

### The most trusted HPC infrastructure software

Trust only the best in grid computing solutions, and be assured of world-class global support. Over 2,000 customers around the world – including seven of the top 10 Fortune Global 500 companies – trust Platform Computing, the leader in HPC management software.

# Platform™

Platform Computing is a pioneer and the global leader in High Performance Computing (HPC) management software. The company delivers integrated software solutions that enable organizations to improve time-to-results and reduce computing costs. Many of the world's largest companies rely on Platform to accelerate compute and data intensive applications and manage cluster and grid systems. Platform has over 2,000 global customers and strategic relationships with Dell™, HP, IBM®, Intel®, Microsoft®, Red Hat® and SAS®, along with the industry's broadest support for HPC applications. Building on 16 years of market leadership, Platform continues to define the HPC market. Visit [www.platform.com](http://www.platform.com).

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