

Performance Experts: Sun and BMC Software

The Right Choice For Resource Optimization BMC Performance Assurance

Highlights

Benefits of BMC Performance Assurance Solutions:

- Effectively analyze current and historical performance to enable prediction of future resource capacity needs, of both physical and virtual server environments
- Optimize capacity needs against changing business requirements and financial constraints
- Provide performance and capacity reports to decision-makers in an intuitive Web interface
- Identify and correct performance problems weeks or months in advance of impacting business service levels

Benefits of the Solaris™ 10

Operating System:

- Allocate system resources to the greatest business need
- Maximize resource utilization by managing applications independently as they are running on a dedicated system
- Lower administration costs by safely combining multiple applications on a single system
- Reduce conflicts between applications running on the same system by isolating them from one another
- Enhance security by preventing unauthorized access and unintended intrusions

Solaris 10, Platform Choice:

- Great product – \$500 million and 3,000 engineering years of R&D investment
- Great price – its free
- Open source – 188 leading open source packages precompiled and ready to go
- One Solaris OS, 500 different systems
- Most secure OS on the planet



BMC Software and Sun Microsystems help companies increase operational efficiency through a scalable computing environment. With decades of experience in capacity planning and record-breaking system performance, BMC and Sun partner to maximize the performance of business application systems. BMC Performance Assurance uses queuing theory and the flexible software boundaries of the Sun Solaris™ Operating System (OS) to improve resource utilization, reduce downtime, and lower total cost of ownership.

Minimizing the Risk of Change

To stay ahead of the game in this highly competitive economy, IT organizations must cost-effectively reduce resource requirements, without jeopardizing levels of service, application responsiveness, and overall system performance. What's needed to meet this requirement is a comprehensive methodology to plan and manage server consolidation that allows for fluctuating load levels, dynamic provisioning, and virtualized sharing of resources across applications.

BMC Performance Assurance provides a unique modeling technology based on queuing theory. The BMC methodology reflects 30 years of industry-recognized expertise in capacity planning, and offers both mainframe and distributed capabilities, which have been successfully tested, proven, and widely deployed across multiple environments in mid-size and Fortune 500 companies.

BMC Performance Assurance ensures application responsiveness and minimizes the risk of change through resource optimization. Companies that choose to run BMC Performance Assurance on Sun platforms can deploy on both UltraSPARC® and x64 platforms. This allows organizations to select the right Solaris OS and related systems platforms for the right job. Sun systems are built from the ground up to scale, be secure, and support intelligent data handling. Sun's energy efficient Sun Fire™ enterprise servers

and low-cost AMD Opteron™ x64-based servers can meet a company's most mission critical requirements. Sun x64 systems meet the demands for high performance computing, server consolidation, and Web infrastructure. By implementing BMC Performance Assurance on Solaris 10, customers gain the advantages of platform scalability, security, and high availability by matching those resources to business needs. Maintaining flexibility and improving manageability are essential to effective cost-cutting strategies. With the Sun platform, BMC customers can leverage the benefits of low-cost hardware yet standardize on a single operating system.

BMC Performance Assurance and Solaris OS Utilization

Optimize Resources to Deliver Predictable Service Levels

With the escalating costs of managing vast networks of servers and software components, attention is shifting towards new ways to reduce IT infrastructure costs and better manage end-user service levels. BMC and Sun provide server consolidation and virtualization techniques that help enable systems within data centers to be visualized and managed as interconnected resources rather than as individual systems. With over 600 new features, the Solaris 10 OS allows IT management to scale-up or scale-down depending on your business needs.

As an integral part of Solaris 10, Solaris Containers (Sun's breakthrough approach to virtualization and software partitioning) allow many private execution environments to be created within a single instance of the Solaris OS. Each environment has its own identity, separate from the underlying hardware. This causes it to behave as if it is running its own system, making consolidation simple, safe, and secure.

Because Solaris Containers are independent from the underlying hardware environment, application services can be re-created on other systems as needed. Each application runs in its own private environment – without dedicating new systems – and many application resources can be tested and deployed on a single server without fear that they will impact one another. System and network resources can be allocated and controlled on a fine-grained basis, helping simplify computing infrastructures and improving resource utilization. BMC Performance Assurance helps IT organizations map their throughput and service level requirements to a containerization strategy that can consolidate applications onto fewer servers without concern for resource constraints, fault propagation, or security breaches, simplifying service provisioning.

BMC Performance Assurance Solutions for the Sun Platform

BMC solutions enable companies to ensure consistent performance to service-level commitments and manage the impact of performance and capacity changes to the IT infrastructure and the business.

The following BMC Performance Assurance products are available for Sun platforms:

BMC Performance Analysis for Servers

Provides capacity management staff and business stakeholders with high-level and in-depth performance analysis and reporting capabilities to explain where their performance and capacity levels are today. Automatically identifies exceptions to normal performance in complex environments via statistical analysis, enabling users to concentrate on true business problems.

BMC Performance Assurance for Servers

Includes all of the functionality in the Performance Analysis product, plus comprehensive management of server performance and capacity. Through response-time modeling, adds the ability to properly size, consolidate, and understand current and future business application resource requirements in order to deliver higher service availability and throughput.

BMC Performance Assurance for Virtual Servers

Provides comprehensive management of VMware performance and server capacity, with the ability to properly size, consolidate, and understand the current and future capacity and performance of business applications, while optimizing the performance of virtual machines. Reduces the risk of virtualization, and accelerates the move to virtual environments, by managing physical and virtual complexities from the perspective of application response time and resource contention.

More than an Operating System

The Solaris Enterprise System includes:

- Solaris 10 OS
- Java™ Enterprise System
- 188 leading open source packages, pre-compiled

Java Enterprise System Components integrated with Solaris 10 include:

- Identity Management
- Web and Application
- Communication and Collaboration
- Portal Services
- Availability Services
- Service & Support

To learn more about the Solaris and Java Enterprise Systems go to www.sun.com/software/

Get the details

For more information about these topics visit:

Sun technology: sun.com

Solaris Software: sun.com/solaris

Solaris containers: sun.com/solaris/containers

BMC Software: www.bmc.com

BMC Capacity Management solutions: www.bmc.com/capacitymanagement



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