



## BMC Performance Predictor for Servers

Accurately measure, manage, and improve system and application performance

### BMC Performance Predictor for Servers:

- > Predicts and prevents performance problems
- > Tests solutions to performance problems without expense or disruptions to your environment
- > Allows users to deploy new applications while ensuring capacity and performance needs
- > Helps balance system use to eliminate under-used resources and simplify management
- > Aids justification of system investments through predictive modeling
- > Lets users take advantage of decreasing hardware prices through just-in-time system upgrades

**BMC® Performance Predictor for Servers is part of the BMC® Performance Assurance® Suite for Servers, which allows users to accurately measure, manage, and improve system and application performance.**

With advancements in technology creating new ways of doing business, information systems have taken center stage as key business tools. As a result, information systems have become increasingly complex and diverse. To stay ahead of the competition, systems must be proactively managed. Upgrades and replacements must be scheduled efficiently and cost-effectively.

The variety of systems and applications available today certainly can help IS professionals successfully meet changing business needs in cost-effective ways. The challenge is to choose solutions that enable you to work proactively — predicting problems and then preventing them from occurring — while delivering superior performance at the lowest cost per transaction.

The BMC Performance Predictor for Servers product is part of the BMC Performance Assurance Suite for Servers, which allows users to accurately measure, manage, and improve system and application performance. The product modeling capabilities build on the analysis and reporting features of the BMC® Performance Analyzer for Servers product and function in accordance with ITIL® Capacity Management best-practice guidelines. This product synergy provides information and insight into key capacity management activities, including:

- > Modeling and testing solutions before committing to changes in the system environment
- > Evaluating proposed configuration changes made in response to anticipated growth and their impact on the system
- > Determining how systems can be more efficiently deployed to optimize resource use
- > Justifying and scheduling system upgrades by creating graphs and reports that demonstrate the need for additional resources and the most cost-effective time for implementation

By asking what-if questions, IS professionals can gain insight into potential configuration changes and workload scenarios. Combining the questions with performance data, BMC Performance Predictor for Servers can accurately model changes in hardware, applications, and transaction rates, or model solutions that involve multiple systems. For example, an application using a Microsoft Windows Web server and a UNIX back-end database application easily can be modeled. This predictive modeling delivers business value in several ways:

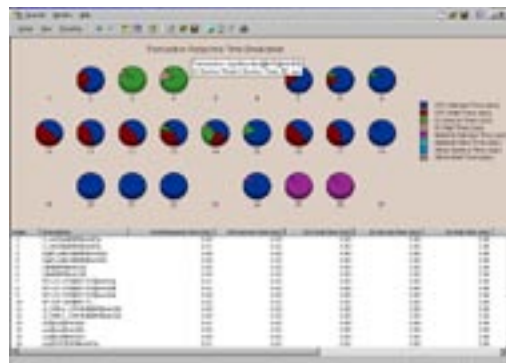
- > Controls cost through optimized system utilization and deferred hardware expenditures
- > Ensures compliance with service level agreements, increasing user and customer satisfaction
- > Increases manageability of the environment — additional infrastructure growth does not necessarily require additional management resources

### BMC Advantage

BMC Performance Predictor for Servers provides a technical advantage that translates into a solid business benefit for growing systems. Advanced modeling techniques allow BMC Performance Predictor for Servers to accurately predict critical points in system responsiveness. Consider, for example, a plan that adds 100 users to the messaging system each quarter. Because expected growth in system use is linear, you might expect that the resulting changes in response time would grow at a constant rate. Many modeling tools make this assumption, which is unfortunately incorrect.

In reality, response time rises at a constant rate, up to a critical point, but then increases dramatically. By allowing you to accurately predict the critical point, BMC Performance Predictor for Servers puts vital planning information in your hands. The

product's advanced modeling techniques are unique in the ability to accurately predict the point at which responsiveness will become unacceptable. Equipped with this knowledge, upgrades can be scheduled to maintain a competitive level of service. BMC Performance Predictor for Servers can also determine current response time, helping to identify and quickly eliminate bottlenecks.



Prediction of response time lets you instantly see how much end-user time is spent waiting for service

#### Validate Solutions to Performance Problems

BMC Performance Predictor for Servers detects performance problems, and helps identify causes, through graphical reporting tools and drill-down analysis. Using performance analysis, the product can create a color-coded model that provides vital information at-a-glance. Once the problem is identified, you can test potential solutions without affecting the system environment. This ability enables you to compare solutions and select the most cost-effective way to reestablish performance.

#### Predict and Prevent Performance Problems

Successful system planning requires insight into how changes in the business model will affect performance. BMC Performance Predictor for Servers helps prevent potential problems by modeling the impact that business changes will have on the system. A solid capacity plan can then be built by using what-if questioning. For example:

- > What if my Web site receives ten times the normal number of hits per hour? (A potential concern for any e-commerce vendor about to announce a product promotion.)
- > What if I need to process three times the normal volume of stock trades? (A financial institution managing an initial public offering might pose this question.)
- > Will the new server I have planned deliver good performance when 2,000 new users are added to my mail system? (A potential question for anyone dealing in mergers and acquisitions.)

BMC Performance Predictor for Servers shows the impact that anticipated changes will have on performance and helps identify the most cost-effective solution to meet business demands.

#### Optimize and Justify System Acquisitions

Using BMC Performance Predictor for Servers, you can schedule and test an upgrade before actually making a resource investment. Modeling determines whether the proposed configuration is adequate for the anticipated demand or whether an application design change is needed. You can also use your modeling results to justify hardware purchases by assessing the best time to upgrade, as well as the consequences of not upgrading. Use predictive modeling to schedule a capacity increase to occur at the optimum time. Upgrading too soon is not cost-effective and waiting too long can result in degraded responsiveness or service interruptions. Just-in-time system upgrades let your business take advantage of decreasing hardware costs.

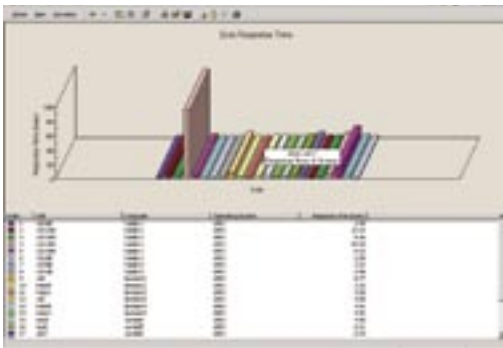
#### Long-term Planning

BMC Performance Predictor for Servers helps develop long-term planning scenarios that ensure stable service levels and customer satisfaction. Using projected workload growth over time, you can model the resulting system and application response times. This accurate projection of performance issues provides valuable input into hardware budget forecasts so you can schedule upgrades at a time that is least disruptive to your business processes.

### Server Consolidation and Load Balancing

Insufficient computing resources often cause performance problems. In many cases, capacity is adequate but inefficiently used. You can improve load balancing by using BMC Performance Predictor for Servers to identify unused capacity, and then modeling the effects of moving application workloads between systems. This alleviates the need for more capacity and quickly resolves performance problems — at no expense.

BMC Performance Predictor for Servers can also help with server consolidation, an easy way to simplify management tasks by reducing the number of business-critical systems. Whether you consolidate work on existing systems or replace several smaller systems with a single larger one, BMC Performance Predictor for Servers predictive modeling will tell you if your plan is a good one.



BMC Performance Predictor for Servers shows how important devices perform against the planned workload

### Application Performance Management

BMC Performance Predictor for Servers includes predefined, out-of-the-box modeling solutions for many popular business applications and databases, such as WebSphere, PeopleSoft, Oracle, and Microsoft SQL Server. When implementing business-critical applications, stress testing is an optimal, but not always feasible, precursor to deployment. BMC Performance Predictor for Servers can accurately model the production environment to determine whether the planned configuration will support the business workload. If it does not, the product can

calculate the resulting response times from other configurations. Therefore, when you do go live, you can do so with the confidence that your business processes will run efficiently.



BMC Performance Predictor for Servers shows you response-time details for important applications and transactions

### Supported Environments

BMC Performance Predictor for Servers is supported for all current editions of Microsoft Windows Server, including enterprise and data center servers and most versions of UNIX and Linux. The user interface is also supported on both Windows and UNIX and can manage systems running Microsoft Windows, UNIX, and Linux servers.

A full list of currently supported platforms is available by contacting your BMC representative or visiting the BMC Software Support Web site.

### Helping you maintain advantage

BMC Software Professional Services helps your company maintain its competitive advantage through a comprehensive suite of services that includes service level management consulting, installation, implementation, configuration, and customization. Our professional services and education offerings are designed to ensure the ongoing availability of critical business applications, maximize product potential, reduce project risk, deliver IT value to your business, and improve your operations. For more information about BMC Software Professional Services, visit [www.bmc.com/profserv](http://www.bmc.com/profserv).

### About BMC Software

BMC Software helps IT organizations drive greater business value through better management of technology. Our industry-leading Business Service Management solutions ensure that everything IT does is prioritized according to business impact, so IT can proactively address business requirements to lower costs, drive revenue, and mitigate risk. BMC solutions share BMC® Atrium™ technologies to enable IT to manage across the complexity of diverse systems and processes — from mainframe to distributed, databases to applications, service to security. Founded in 1980, BMC has offices worldwide and fiscal 2005 revenues of more than \$1.46 billion. BMC Software. Activate your business with the power of IT. For more information, visit [www.bmc.com](http://www.bmc.com).



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