MACRO|4
A Division of UNICOM'Global

SUPERMON for Java is a performance monitoring solution for Java-based applications; it provides rapid detection, diagnosis, and resolution of performance problems, leading to faster response times, greater user satisfaction and increased productivity

Java application performance
Improve the performance of your critical business applications and achieve higher levels of service

If Java is underpinning critical applications within your organization, you will need tools to monitor their responsiveness and alert you to problems before service levels start to deteriorate. SUPERMON for Java is an application performance management solution that, through its unique design:

- Focuses on application performance, not just the supporting infrastructure

- Is architected for production environments rather than being limited to development or test

- Enhances and builds on existing application server monitoring infrastructure, for lower resource overhead impact

- Automatically discovers applications, their components and structure, for simple installation without complex configuration

- Provides Apdex (Application Performance Index) style reporting and highlights worst (Top N) responses to help you pinpoint poorly performing applications

- Delivers extensive reporting to facilitate application trend analysis

- Supports a wide range of Java and database environments

Java application management

SUPERMON for Java addresses the need for managing the performance of cross-platform Java applications in a single, easy-to-use solution.

It provides rapid detection, diagnosis and resolution of performance problems, which in turn, ensures faster application response times and optimal end user productivity.

SUPERMON for Java not only monitors activity within JEE Server environments, such as WebSphere and Weblogic, but also provides valuable insight into the performance of supporting infrastructure components.

This capability extends to distributed databases, including DB2 as a back-end mainframe-resident database, and mainframe CICS transactions when used via web server JCA and CTG (CICS Transaction Gateway) as part of a hybrid application solution. SUPERMON for Java also provides DB2 support for z/OS, Unix and Linux.

Highly detailed performance data is collected and presented to enable operational decisions to be made with confidence.

SUPERMON for Java's own data is stored in a relational database - using a synthetic data warehouse design - to provide fast searching and performance reporting.

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Macro 4's integrated suite for cross-platform, z/OS and DB2 performance management:

SUPERMON for Java
Cross-platform Java application performance management

ExpeTune
z/OS application performance management

ExpeTune DB
DB2 performance management

FreezeFrame
z/OS application performance analysis

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Monitoring and analysis

Near real-time monitoring is provided for applications residing on Windows, Unix, IBM i or IBM mainframe platforms. This is achieved through the deployment of minimal footprint performance data extractors.

A dashboard of gauges is available for data at any level you choose, from summary 'health' indicators down to details of how individual components are performing at method level and all levels in between.

Once stored in the server component, data is then available for historical analysis and reporting, providing detailed information of:

- Performance data for servlets, JSPs and EJB business and lifecycle methods: all the building blocks that are executed as your applications run
- Resource usage at the system, application server and JVM levels; CPU and memory usage statistics are also available, together with JDBC related data

Auto-discovery

SUPERMON for Java uses a method of auto-discovery to determine the full extent of the server environment that supports the applications it is monitoring.

Data extractors are installed in the application server environments; these discover local application content, collect data for those components and the server as a whole, and then send it onto the central SUPERMON for Java server which expands its database structure and application knowledge based on the data that it receives.

Apdex reporting

Apdex (Application Performance Index), as defined by the Apdex Alliance, is a way of converting raw measurement data into insights about user experience and satisfaction. SUPERMON for Java can calculate and report on Apdex indices for all components of the applications that it monitors.

Worst performing applications

Through its 'Top N' function, SUPERMON for Java allows you to identify and report on your worst performing Java methods. This powerful tool helps you improve methods that are slow or use the most resources.

Trend analysis

SUPERMON for Java provides highly flexible reporting facilities that are ideal for identifying and analyzing trends. Reports can be configured to present the exact information required: for example, time periods, levels of granularity, or the data to include or exclude.

Threshold alerts and notifications

As well as monitoring for events such as response times that breach specified thresholds, SUPERMON for Java can also monitor for 'less than' threshold conditions.

These conditions can provide excellent insight into potential problems, as an application that is performing with unusually fast response times, could in fact be a warning of problems elsewhere.

Threshold events can trigger various actions, ranging from simply visualizing the event via the user interface to sending a notification email/SMS or executing an external process.

Database correlation

SUPERMON for Java possesses a powerful facility for correlating the performance data for Oracle, DB2 and Microsoft SQL Server databases with the connecting Java code.

CICS monitoring

SUPERMON for Java provides a sophisticated level of support for monitoring the real-time performance of CICS transactions that have been initiated by a Java program. This includes an option to correlate metrics for CICS transactions with calling Java methods (and vice versa).

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