

MANAGE APPLICATION PERFORMANCE IN CHALLENGING ENVIRONMENTS

The Compuware *Strobe for WebSphere Application Server (WAS)* solution helps IT professionals understand and improve the performance of Java and WAS applications that may also leverage CICS transactions and access DB2 data.

The *Strobe for WebSphere Application Server* solution assists IT organizations in delivering efficient and responsive z/OS applications throughout the application life cycle. The result: optimal application performance management.

The *Strobe for WAS* solution helps users identify WebSphere activity by request, including response times and invocation counts for EJBs, servlets and JSPs, as well as critical WebSphere environmental settings. Further, *Strobe* captures critical Java application performance data and pinpoints the Java packages, classes and methods that are most resource-consumptive or contribute to delays. It also details Java overhead routines invoked on behalf of Java methods and DB2 SQL statements invoked on behalf of Java code, and provides detailed information on CICS transaction response time and reasons for delay.

THE POWERFUL ANALYSIS YOU NEED TO SEE THE COMPLETE PERFORMANCE PICTURE

Viewing performance data couldn't be easier. Your WebSphere applications are most likely complex Java applications that may also access DB2 data and work with CICS. The *Strobe for WAS* solution is a unique offering. It provides information on the Java methods and WebSphere activity where performance problems occur and connects this activity to specific DB2 SQL statements, CICS activity, and other z/OS, USS, Java, DB2 and CICS system services invoked on behalf of the application.

iStrobe's powerful analysis capability combines this information in an easy-to-use drill-down format. This enables users to view and analyze Performance Profile information interactively via their desktop browsers. iStrobe not only pinpoints where performance problems are but takes the analysis further and provides recommendations such as how to tune resource-consumptive SQL statements that are used by the application.

THE INSIGHT YOU NEED TO RESOLVE PERFORMANCE PROBLEMS

By implementing the *Strobe for WAS* solution, IT organizations can easily:

- understand and improve the performance of Java and J2EE applications that may use WebSphere, CICS and DB2 applications
- identify EJBs, JSPs and servlets with poor response time
- identify activity in Java applications by transaction, package, class and method, as well as the full file path that identifies the package
- view any SQL statement consuming significant resources or contributing to delays that were invoked on behalf of Java code
- determine whether Java code was executed via a just-in-time (JIT) compiler or whether the Java code ran interpretively
- view Java call stack information
- improve the performance of SQL statements using SQL analysis and predicate analysis functionality
- identify program statements that call resource-consumptive z/OS USS modules and Language Environment (LE) runtime routines
- detect the inefficient file access and use of Hierarchical File System (HFS), z/OS Distributed File Service (zFS) and Network File System (NFS) files.

THE SOLUTION TO ENABLE YOU TO MANAGE PERFORMANCE THROUGHOUT THE APPLICATION LIFE CYCLE

Using the Strobe *for* WAS solution, IT personnel can easily locate and eliminate sources of excessive resource demand and improve response time. With a single Performance Profile, users quickly gain a comprehensive understanding of performance — for internally developed applications as well as third-party packages. WebSphere application developers and system analysts can use the information to tune their WebSphere J2EE environment and applications.

Data provided by the Strobe *for* WAS solution helps IT personnel throughout the application life cycle:

- in design, to evaluate the performance of prototypes
- in development, to streamline J2EE applications so calls are coded efficiently
- in test, to ensure new or changed applications perform well in production and performance defects are quickly found and fixed — helping you to meet deployment deadlines for new or changed applications in production, to ensure Java and J2EE applications are efficient and responsive while optimizing the use of existing hardware resources
- in maintenance, to assess the impact of changes on the performance of Java and J2EE applications.

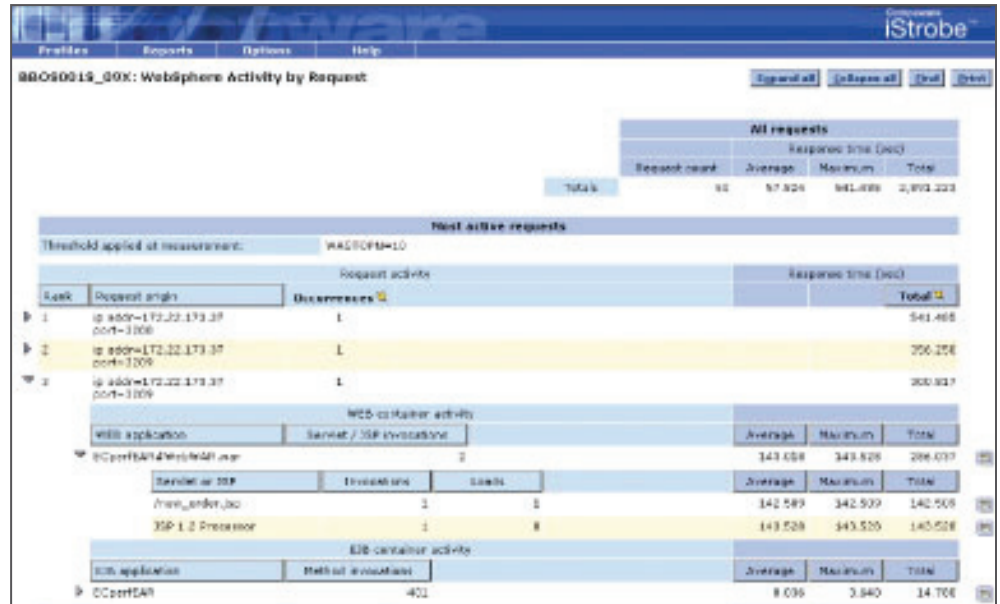


Figure 1: The WebSphere Activity by Request report provides users with the ability to easily drill down from the request to the web container and then to the servlet or JSP.

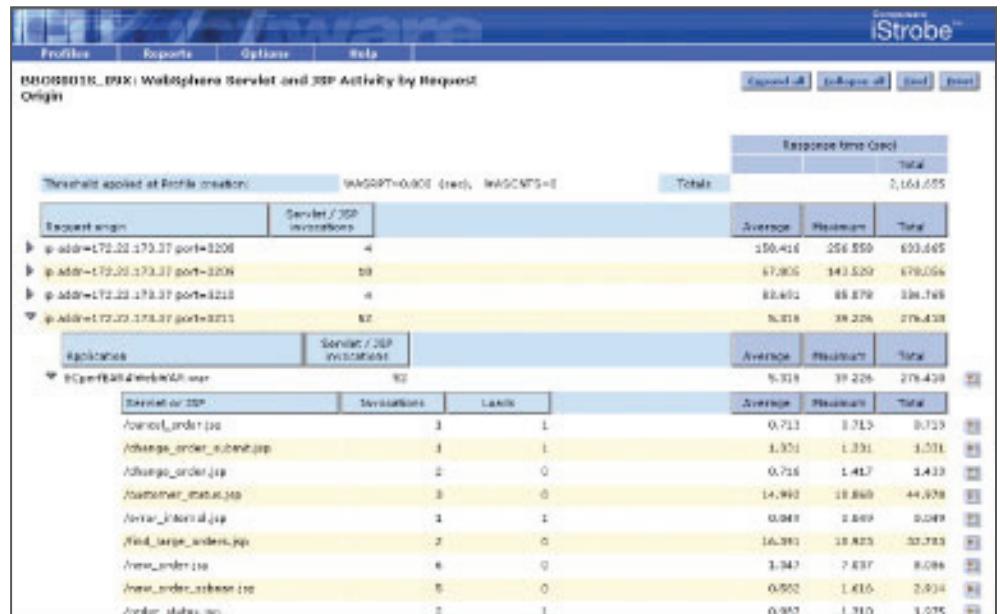


Figure 2: The WebSphere Servlet and JSP Activity by Request Origin report provides users with information regarding the performance of web components, ranked by originators of work requests.

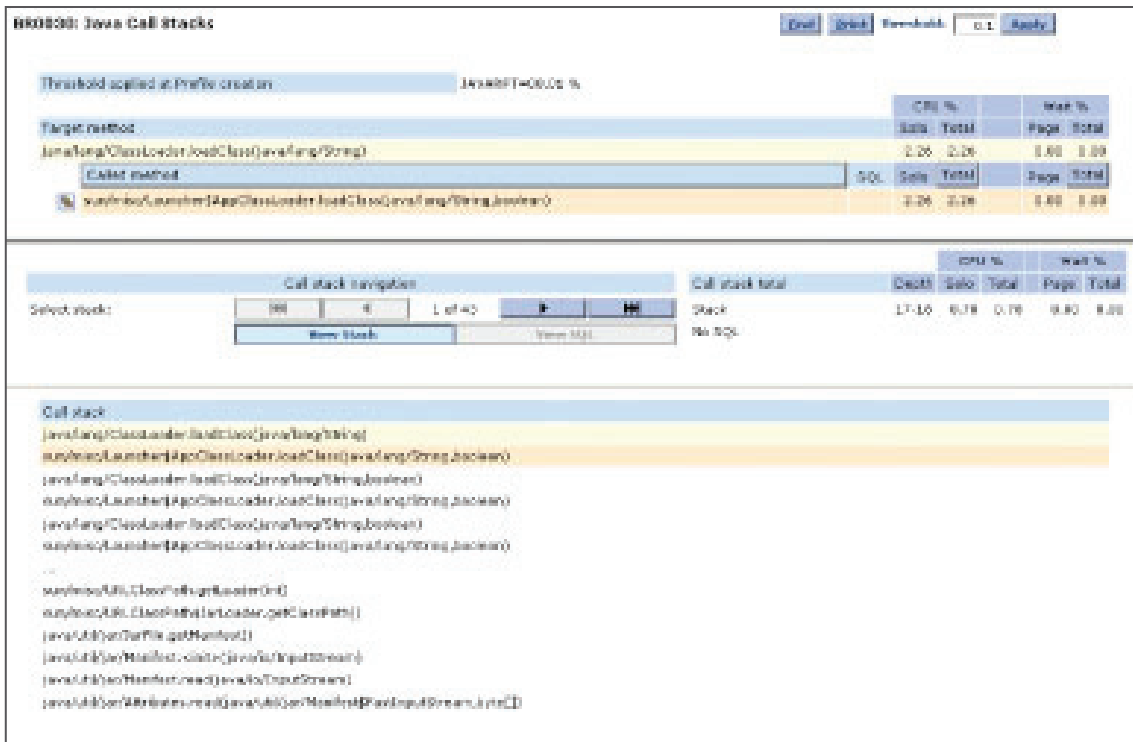


Figure 3: The Target (top) frame contains the Target method and its Called methods. The Navigation (middle) frame contains the stack and SQL statement totals, the call stack depth and stack navigation controls. The Stack (bottom) frame contains the call stack detail. In this case, the report shows the originating method and the next five methods as well as the six methods closest to the executing method (the top and bottom six methods on the stack), and its attributed SQL statements. The View Stack mode is in effect in this example. In this mode, the forward and backward controls in the Navigation frame enable users to step from the displayed stack to the next or previous stack.

APM PROBLEM SOLVER SERVICE

The APM Problem Solver service assists in identifying and resolving specific performance problems in mainframe-centric, business-critical applications.

Using Compuware's industry-leading products, experienced Compuware Delivery Consultants work closely with your IT personnel to measure an application's performance, identify performance improvement opportunities and make recommendations for implementing solutions.

With the APM Problem Solver services, organizations not only resolve problems quickly and effectively, but they gain the skills necessary to prevent future application performance degradation.

Compuware's Delivery Consultants are experts in managing APM projects. They have the latest knowledge of APM methodology and technologies and average 10 or more years' experience in OS/390 and z/OS application or system programming, database administration and/or application performance tuning.

To learn more about Compuware Strobe for WAS, visit:
www.compuware.com/strobe

APM PRODUCTS

Z/OS OPERATING ENVIRONMENT

- Strobe
- iStrobe
- AutoStrobe

SUBSYSTEM AND DATABASE ENVIRONMENTS

- Strobe *for CICS*
- Strobe *for DB2*
- Strobe *for IMS*
- Strobe *for WebSphere MQ*
- Strobe *for WebSphere Application Server*
- Strobe *for CA-IDMS*
- Strobe *for ADABAS/NATURAL*
- Strobe *for UNIX System Services*

LANGUAGES

- Strobe *for Java™*
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- Strobe *for CA-Optimizer*
- Strobe *for CA Gen*

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