

Oracle9*i*AS/IBM Benchmark Results

June 7, 2001

Introduction

On May 31, IBM announced a benchmark in which they claimed that IBM WebSphere offered much better performance than BEA Weblogic. Without providing any details on the parameters of the benchmarks and the actual results achieved, IBM made the performance claim. IBM provided the source of the benchmark on their website:

<http://www6.software.ibm.com/dl/websphere27/benchmark-p>

Oracle downloaded the application code and ran the benchmark to compare how Oracle9iAS Containers for J2EE perform compared to IBM WebSphere. This document summarizes the results of our efforts. On average, we found that Oracle9iAS was 3-9 times faster than IBM WebSphere. Attached are the details of the benchmark environment and the corresponding results.

Benchmark Description:

The benchmark was run against Oracle9iAS Containers for J2EE Vs WebSphere 3.5.3. In order to run the benchmark on Oracle9iAS we had to first port the application because the code provided on the above mentioned web site was not even J2EE 1.2 compliant code. ***The EJBs in the application were still based on the EJB 1.0 APIs.*** The benchmark was run with the following parameters:

1. On a Win2000 machine using IBM's JDK 1.2.2
2. With EJB-nocache and using standard mix of the IBM's Trade benchmark
3. Both the application servers (Oracle9iAS and WebSphere) are run on 2 CPUs Pentium Pro 500 Mhz.
4. The database resides on a different machine.
5. The Remote Browser Emulator (RBE) was run from another machine.
6. We used a 1sec think time. These are 10 minute runs after rampup.
7. In the case of Oracle9iAS - RBE communicated with the application server using Apache as proxy server. WebSphere too uses Apache as the listener.

Benchmark Results:

We measured three different results:

1. Average Response Time
2. CPU Utilization
3. EJB-Transactions per second

The following graphs show our results.

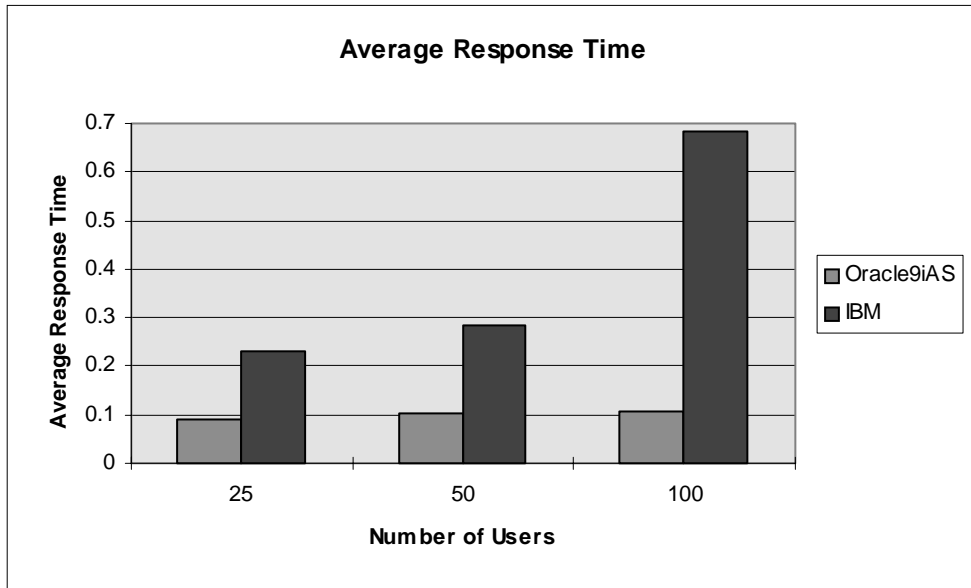


Figure 1.

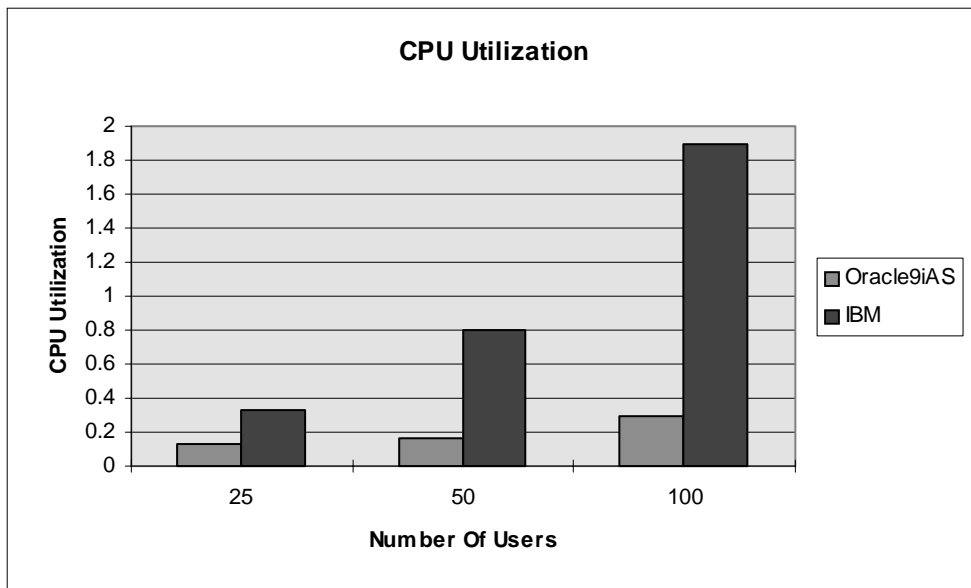


Figure 2.

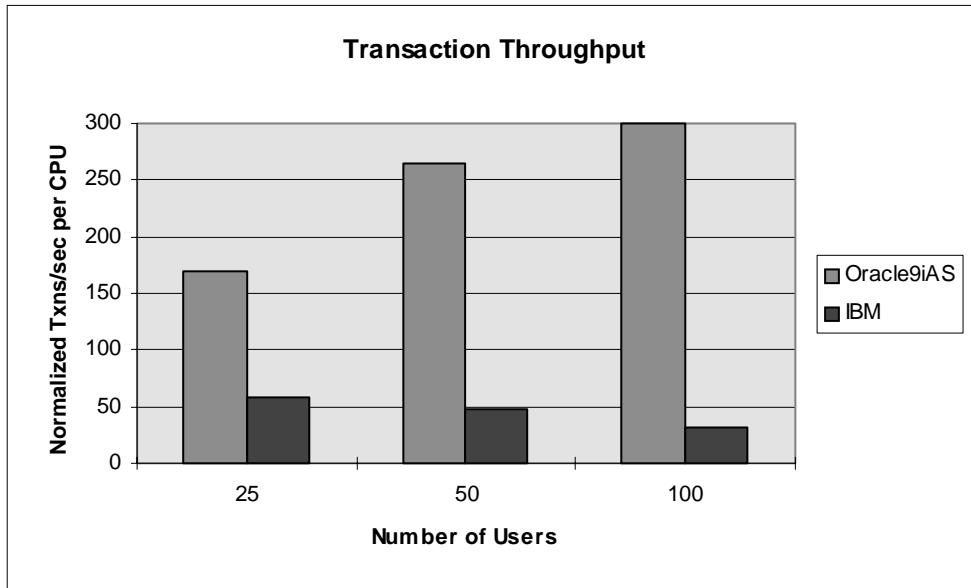


Figure 3.

Summary:

Based upon the IBM published benchmark application, an EJB 1.0 based application, we conclude that Oracle9iAS delivers 3-9 times better performance, scales better by utilizing the CPU more efficiently, and delivers better transaction throughput.