FIRST PLACE: ProLiant DL585 G6 earns #1 performance on 4-socket SPECjbb2005 benchmark running MS Windows Server 2008 R2

And another FIRST: Achieving over one million SPECjbb BOPS using 4 CPUs

- #1 4-socket performance
- Beats performance of similarly configured IBM BladeCenter server

HP performance brief

Benchmark: SPECjbb2005

Top performing
HP announced a new SPECjbb2005 benchmark result for the ProLiant DL585 G6 with 1,002,620 SPECjbb BOPS (business operations per second) running Microsoft Windows Server 2008 R2.

Trumps IBM Blade Center
This performance result triumphed over a similarly-configured 4-socket IBM BladeCenter LS42 result, IBM’s highest 4-socket performance score.

Over one million SPECjbb2005 BOPS
The ProLiant DL585 G6 is the FIRST 4-socket server to achieve over one million SPECjbb2005 BOPS.

Compelling performance
The ProLiant DL585 G6 offers the following additional valuable features for its leading performance:
- AMD Opteron processors that require less power to run and less power to cool
- HP Power Regulator built into BIOS that allows the server to be throttled up and down, depending on utilization
- Small Form Factor hard drives that use up to 50% less power than traditional, 3.5-inch form factor drives

The HP ProLiant DL585 G6 results show an increase in performance when compared to IBM’s top performing server

What are the customer benefits of using the HP ProLiant rack servers with SPECjbb2005?
The #1, 4-socket result of the ProLiant DL585 G6 running the SPECjbb2005 application gives positive proof of the high performance and scalability that will be achieved by HP ProLiant servers on an industry-standard measurement of Java-based application performance.
HP ProLiant DL585 G6 is positioned as the leading performance 4P multicore rack mount server with the expansion capabilities to make it ideal for server virtualization, server consolidation, multi-tiered enterprise application, and corporate infrastructure applications.

Table 1: HP Six-Core, 4-socket configuration and results vs. IBM

<table>
<thead>
<tr>
<th>System (chips/cores/cores per thread)</th>
<th>SPECjbb2005 BOPS</th>
<th>SPECjbb2005 BOPS/JVM</th>
<th>Availability</th>
<th>OS</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP ProLiant DL585 G6 4P Six-Core AMD Opteron 8435 2.6GHz (4 chips/24 cores/6 cores per chip)</td>
<td>1,002,620</td>
<td>125,328</td>
<td>Now</td>
<td>Microsoft Windows Server 2008 R2</td>
<td>#1 4-socket server</td>
</tr>
<tr>
<td>IBM BladeCenter LS42 4P Six-Core AMD Opteron 8435 2.6GHz (4 chips/24 cores/6 cores per chip)</td>
<td>977,504</td>
<td>244,376</td>
<td>Now</td>
<td>Microsoft Windows Server 2008</td>
<td>ProLiant DL585 G6 has a 2.5% increase in performance with same HW configuration</td>
</tr>
</tbody>
</table>

ProLiant DL585 G6 server configuration

For this benchmark, the HP ProLiant DL585 G6 was configured with:
- 4 x Six-Core AMD Opteron™ 8435 2.6GHz processors (4 chips/24 cores/6 cores per chip)
- 6MB L3 shared cache
- 16 x 4GB RAM
- 1 x 146GB 15K SAS hard disk drive
- Microsoft Windows Server 2008 R2

About the SPECjbb2005

SPECjbb2005 is SPEC’s benchmark for evaluating the performance of server side Java. Like its predecessor, SPECjbb2000, SPECjbb2005 evaluates the performance of server side Java by emulating a three-tier client/server system (with emphasis on the middle tier). The benchmark exercises the implementations of the JVM (Java Virtual Machine), JIT (Just-In-Time) compiler, garbage collection, threads and some aspects of the operating system. It also measures the performance of CPUs, caches, memory hierarchy, and the scalability of shared memory processors (SMPs). SPECjbb2005 provides a new enhanced workload, implemented in a more object-oriented manner to reflect how real-world applications are designed and introduces new features such as XML processing and BigDecimal computations to make the benchmark a more realistic reflection of today’s applications. The benchmark’s results portray server throughput in business operations per second or SPECjbb2005 BOPS. A higher number of SPECjbb2005 BOPS is better. For more information on SPECjbb2005, please visit www.spec.org.

Technology for better business outcomes

To learn more, visit
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