



# Five results over 1 million SPECjbb® BOPS with HP ProLiant DL785 G5 8-processor server on SPECjbb®2005 benchmark



*Defeats Sun and IBM eight-processor competitors*

## HP Leadership and Customer Value

### Benefits of the DL785 G5 with Java



These latest results establish even more completely that the DL785 G5 is the performance leader in its category for Java

server side business logic. The DL785 architecture provides deployment flexibility, consolidation and scalability while maintaining high application throughput for Java business applications.

The award-winning 8-socket workhorse HP ProLiant DL785 G5 is a balanced platform suitable for any number of applications. With up to 16 drives, 512 GB memory, and 11 expansion slots, the DL785 G5 is the most expandable 8-socket x86 server. Standard robust remote management, Systems Insight Display diagnostic panel, and HP Systems Insight Manager complete the package.

### Benefits of HP and Oracle JRockit® JVM

Oracle JRockit JVM is a high performance Java Virtual Machine now built into Oracle Fusion Middleware. It brings real time infrastructure capabilities with JRockit Real Time and JVM diagnostics with JRockit Mission Control. Customers can lower operating costs and mitigate risks by choosing proven, reliable solutions from trusted business partners—HP and Oracle.

### Server Configuration

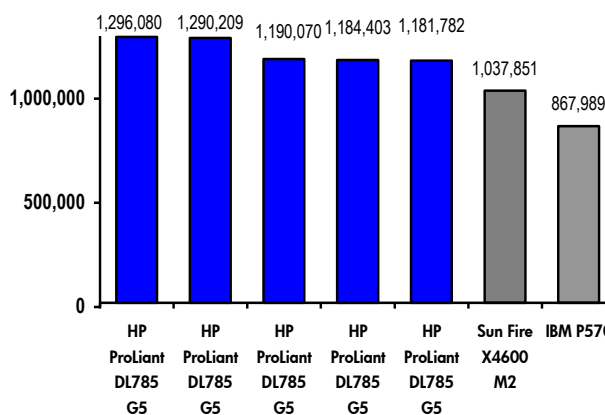
- 8 x QC AMD Opteron™ 8393SE 3.1-GHz processors (32 cores total, 4 cores/chip, 6 MB L3 shared cache)
- 16 x 4 GB DDR2 800-MHz RAM
- 1 x 72 GB 5.4K SFF 2.5 » SAS hard disk drive
- 1 x HP Smart Array P400 controller
- Oracle JRockit®
- #1 result: Microsoft® Windows® Server 2008 EE SP1 64-bit
- #2 result: Red Hat Enterprise Linux 5.3

## Key Points

In April 2009, HP announced two new SPECjbb®2005 benchmark results for the HP ProLiant DL785 G5 server with **1,296,080 SPECjbb BOPS** (business operations per second) running Microsoft Windows 2008 operating system and **1,290,209 SPEjbb2005 BOPS** running Red Hat Enterprise Linux 5.3 operating system. These results are the new #1 and #2 8-processor results.

- **Up to 24.8% better than the Sun Fire X4600 M2**
- **Up to 49.3% better than the 8-processor IBM Power 570 (POWER 6, 16-core)**
- **Top 5 worldwide 8-processor results**
- **Top 5 results for any server up to 8 processors**
- **Top 5 results for any AMD-based server**
- **Top 4 results for servers running Microsoft Windows OS**
- **Top 2 results for any 8-socket server running Linux OS**
- **HP continues to post frequently updated results for the DL785 G5**

Figure 1. Top 8-processor results on SPECjbb2005 benchmark



### What SPECjbb2005 measures

SPECjbb2005 is SPEC's benchmark for evaluating the performance of server side Java. Like its predecessor, [SPECjbb2000](http://www.spec.org), 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](http://www.spec.org). More information about SPEjbb@2005 results can be found at the following Web page: <http://www.spec.org>. Results as of 04-27-09. HP ProLiant performance: [www.hp.com/servers/benchmarks](http://www.hp.com/servers/benchmarks).

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