HP ProLiant DL580 G5 with BL460c beats IBM POWER6/POWER5 result in online performance on Oracle E-Business Suite 11i Medium Model Benchmark

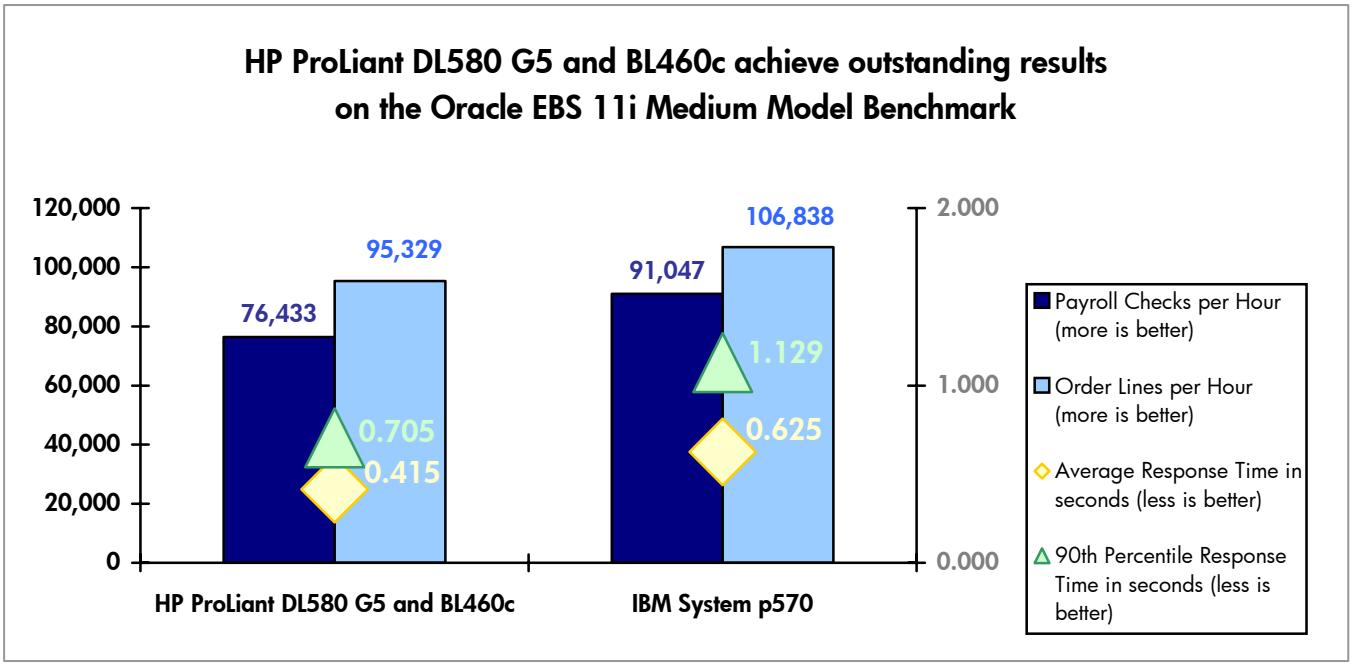
HP ProLiant DL580 G5

HP ProLiant BL460

Key results at a glance

- **Faster average response time**
- **Faster in 90th percentile response time**

Figure 1. Comparison of performance results on the Oracle E-Business Suite 11i Medium Model Benchmark (2000 users for HP platform ~ 2,100 users for IBM platform)



In March 2008, HP submitted a new result for the HP ProLiant DL580 G5 and three ProLiant BL460c blade servers on the Oracle E-Business Suite 11i Medium Model benchmark. The HP ProLiant servers configured with Quad-Core Intel Xeon processors achieved superior results as compared to the IBM System p570 POWER6 and POWER 5 results in each of the following key measurements:

- **33% faster in Average Response Time**
- **37% faster in 90th percentile Response Time**

These results show the superior optimization of the ProLiant four-processor Quad-Core Intel Xeon server architecture versus IBM's p570 POWER6 and POWER5 four-processor dual-core server architecture.

Table 1. Result summary of the HP ProLiant DL580 G5 four-processor server and BL460c two-processor server blades to the IBM System p570 P6 and P5 four-processor results on the 2,000-user Oracle E-Business Suite 11i Medium Model Benchmark. The Oracle E-Business Suite 11i Medium Model Benchmark workload is best-aligned to 8-core and larger systems.

Summary of results for HP ProLiant DL580 G5 and BL460c versus IBM System p570 P6 and P5 on Oracle E-Business Suite 11i Medium Model Benchmark		
2,000 Concurrent Users – 4-processor results		
	DL580 G5 and BL460c	**IBM System p570 P6 and P5**
Users	**2,000**	**2,100**
Average Response Time	0.415	0.625 sec
90th percentile Response Time	0.705	1.129 sec
Order-to-Cash Lines/Hour Batch Throughput	95,329	106,838
Payroll Checks/Hour Batch Throughput	76,433	91,047

Results valid as of 5-07-08. More information on published benchmark results is available at: http://www.oracle.com/apps_benchmark/html/results.html#medium.

The HP advantage

These stellar results were achieved using the HP ProLiant DL580 G5 server as the database tier and three HP ProLiant BL460c server blades for the applications and Web tier. The HP ProLiant DL580 G5 server with Quad-Core Intel Xeon processors delivers maximum performance, industry leading management solutions, flexibility for a variety of enterprise deployments, and maximum performance per Watt. The HP ProLiant BL460c 2-processor, multi-core server blade has features equal to standard 1U rack mount servers, combining power-efficient compute power and high density with expanded memory and I/O for maximum performance. Also included in the achievement of these results are high quality HP storage products, such as the HP Smart Array E400i Controller and an HP Storage Works EVA4100 disk array.

The HP and Oracle partnership

Strategic partners for over 25 years, HP and Oracle have more than 140,000 joint customers. Our accomplishments together are numerous. Here are just a few:

- A strong breadth and depth of platform, software and middleware solutions
- Joint development, testing, and refinement
- Performance and price/performance leadership validated by industry and Oracle benchmarking
- Oracle's Database is the most popular database among HP-UX customers
- HP Consulting and Integration Services deliver solutions for Enterprise Integration and Service Oriented Architecture with Oracle Fusion Middleware
- HP is one of the leading Oracle Applications Infrastructure Partners
- Thirteen HP/Oracle solution and demo centers worldwide
- Oracle Fusion Middleware is showcased in HP's SOA Competency Centers around the world
- Oracle chose HP to be a key platform provider for its development of Itanium®-based databases for Linux, Unix, and Windows
- Executive alignment that starts at the top and runs deep

HP and Oracle aim to address today's business challenges by enabling the synchronization of infrastructure, applications, services, and business processes – from suppliers through to customers – to help organizations reduce the cost of change, reduce total cost of ownership, simplify IT management complexity, and rapidly implement solutions that provide a competitive advantage.

For more information

HP ProLiant DL580 G5: www.hp.com/servers/dl580

HP ProLiant storage solutions: www.hp.com/go/serial and h18004.www1.hp.com/products/servers/platforms/storage.html

OASB information and results: www.oracle.com/apps_benchmark/html/results.html

HP and Oracle partnership: http://h71028.www7.hp.com/enterprise/cache/4281-0-0-0-121.aspx?jumpid=hpr_R1002_USEN

Server configurations

HP ProLiant DL580 G5 server 2,000-user results on Oracle E-Business Suite 11i Benchmark: In February and March 2008, Oracle and Hewlett-Packard conducted a benchmark in Nashua, New Hampshire, to measure the online and batch performance of the Oracle Applications Standard Benchmark processes in an environment running Oracle E-Business Suite (EBS) 11i (11.5.10) with Oracle Database 10g™ (10.2.0.3) 64-bit and Red Hat® Enterprise Linux® Advanced Server release 4.0 Update 5, and achieved 95,329 Lines per Hour, 76,433 Checks per Hour, a 90th percentile response time of 0.705 seconds, and an average response time of 0.415 seconds. This result, submitted 03-23-08, was achieved on a Hewlett-Packard® ProLiant™DL580 G5 database server configured with 4 x 2.93GHz Quad-Core Intel® Xeon™ X7350 processors 4 processors/16 cores/16 threads) with 2x4MB Level 2 cache per core, 64GB memory, and PC2-5300 Registered DDR2-667MHz DIMMs. The system used 2 x 72GB SFF SAS internal disk drives attached to an integrated HP Smart Array E400i Controller, and 1 x HP Storage Works EVA4100 disk array attached to 2 Emulex LightPulse Fibre Channel controller for data and logs. Two HP ProLiant BL460c server blades each with 2 x 2.66GHz Quad-Core Intel Xeon X5355 processors (2 processors/8 cores/8 threads) and 24 GB memory were used as application and web servers and one HP ProLiant BL460c server blade with 2 x 2.66GHz Quad-Core Intel Xeon X5355 processors and 16 GB memory was used as the CM/application server.

vs. IBM System p570 2,100-user results on Oracle E-Business Suite 11i Benchmark: In March and April 2007, Oracle and IBM conducted a benchmark in Beaverton, Oregon, to measure the online and batch performance of the Oracle Applications Standard Benchmark processes in an environment running Oracle E-Business Suite (EBS) 11i (11.5.10) with Oracle Database 10g™ (10.2.0.2) and IBM AIX 5L V5.3 TL06 operating system, and achieved 106,838 Lines per Hour, 91,047 Checks per Hour, a 90th percentile response time of 1.129 seconds, and an average response time of 0.625 seconds. This result, submitted 05/01/07, was achieved on an IBM System p570 database server configured with 4 x 4.7GHz Dual-Core IBM POWER 6 processor chips (4 processors/8 cores/8 threads) with 4MB L2 cache per Core, L3 cache of 32 MB per single core, and 128GB memory. An IBM TotalStorage DS4800 was used for data storage. Two IBM System p570 POWER5 four-processor Dual-Core servers were used as application/web servers.