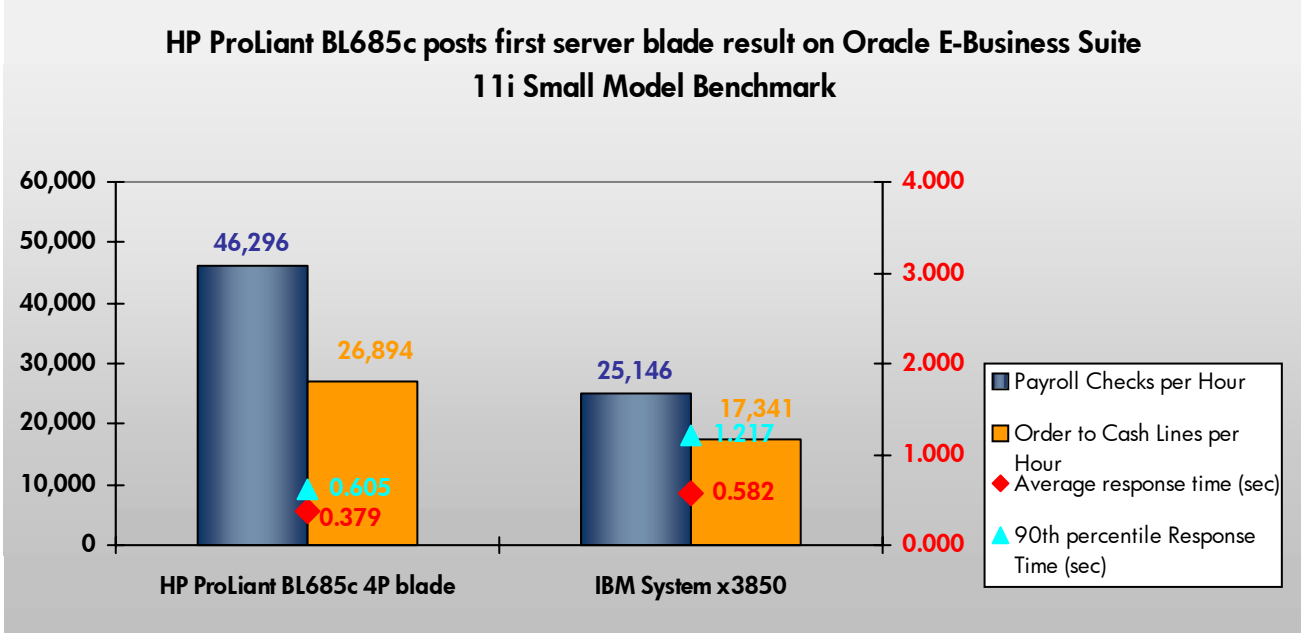
HP ProLiant BL685c

HP ProLiant BL685c Dual-Core server blade posts first blade result and earns #1 4-socket/8-core result on Oracle E-Business Suite 11i Small Model Benchmark

Key results at a glance

- **ProLiant BL685c result is the first server blade result to be posted**
- **ProLiant BL685c is the #1 4-socket/8-core result**
- **HP servers provide optimal results on this benchmark**

Figure 1. Comparison of performance results on the 1,000-user Oracle E-Business Suite 11i Small Model Benchmark.



On August 14, 2007, HP submitted a new result for the HP ProLiant BL685c on the Oracle E-Business Suite 11i Small Model benchmark. The HP ProLiant BL685c achieved superior results as compared to the IBM x3850 in each of the following key measurements:

- **56% faster in Average Response Time**
- **More than twice as fast in 90th percentile Response Time**
- **9,553 more Order Cash Lines per Hour Batch Throughput**
- **21,150 more Payroll Checks per Hour Batch Throughput**

The results show the superior optimization of the ProLiant four-processor dual-core server blade architecture versus IBM's X3 four processor dual-core server architecture.

Table 1. Result summary of the HP ProLiant BL685c four-processor server to the IBM x3850 four processor results on the 1,000-user Oracle E-Business Suite 11i Small Model Benchmark. The Oracle E-Business Suite 11i Small Model Benchmark workload is best-aligned to 8-core and smaller systems.

Summary of results for HP ProLiant BL685c vs. IBM x3850 on Oracle E-Business Suite 11i Small Model Benchmark		
1,000 Concurrent Users – 4-processor results		
	BL685c	**IBM x3850**
Average Response Time	0.373	0.582 sec
90th percentile Response Time	0.605	1.217 sec
Order-to-Cash Lines/Hour Batch Throughput	26,894	17,341
Payroll Checks/Hour Batch Throughput	46,296	25,146

Results valid as of 8-29-07. More information on published benchmark results is available at: http://www.oracle.com/apps_benchmark/html/results.html#small

The ProLiant Advantage

These stellar results were achieved using the HP ProLiant BL685c server blade as the database tier and the applications tier. The HP ProLiant BL685c server blade delivers maximum dual-core performance, enterprise manageability and availability, and superior server design to the datacenter, including:

- Uncompromising dual-core performance for the most demanding applications
- Enterprise-class manageability and availability to keep operations up and running smoothly
- Superior ProLiant design to enable highly flexible, reliable, and efficient server deployments
- Multi-server and high performance dual-core applications

Also included behind the scenes of these results are many high quality HP storage products, such as the HP Smart Array E200i Controller, QMH2462 4Gb PCI-E Fibre Channel controller, and a Storage Works EVA6000 disk array.

The advantages of the partnership between HP and Oracle

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 services offerings
- Joint development, testing, and optimization
- Performance and price/performance leadership validated by industry and Oracle Applications 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 a leading Oracle Applications Infrastructure Partner
- There are 13 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

- The partners provide executive alignment that starts at the top and runs through both organizations

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 BL685c : www.hp.com/servers/bl685c

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

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

HP and Oracle partnership: h71028.www7.hp.com/enterprise/cache/6606-0-0-225-121.html?jumpid=reg_R1002_USEN

More information can also be found at the following web page:

http://www.oracle.com/apps_benchmark/html/results.html#small

Server configurations

HP ProLiant BL685c server blade 1,000-user results on Oracle E-Business Suite 11i Benchmark: In August 2007, Oracle and Hewlett-Packard conducted a benchmark in Cupertino, California, to measure the online and batch performance of the Oracle Applications Standard Benchmark processes in an environment running Oracle E-Business Suite 11i (11.5.10) with Oracle Database 10g™ (10.1.0.4) 64-bit and Red Hat® Enterprise Linux® Advanced Server release 4.0 Update 4, and achieved 26,894 Lines per Hour, 46,296 Checks per Hour, a 90th percentile response time of 0.605 seconds, and an average response time of 0.373 seconds. This result, submitted 08-14-07, was achieved on a Hewlett-Packard® ProLiant™ BL685c database server configured with 4 x 2.8GHz AMD® Opteron® 8220 Dual-Core processors (4 processors/8 cores/8 threads) with 1MB Level 2 cache per core, 32GB memory, and PC2-5300 DDR2-667MHz DIMMs. The system used 2 x 72GB SFF SAS internal disk drives attached to an integrated HP Smart Array E200i Controller, and 1 x HP Storage Works EVA6000 disk array attached to 1 QLogic QMH2462 4Gb Fibre Channel controller for data and logs. Two HP ProLiant BL685c blade servers were used as application and web servers and one HP ProLiant BL685c blade server was used as the CM/NFS server.

vs. IBM System x3850 1,000-user results on Oracle E-Business Suite 11i Benchmark: In May and June 2006, Oracle and IBM conducted a benchmark in Research Triangle Park, North Carolina, to measure the online and batch performance of the Oracle Applications Standard Benchmark processes in an environment running Oracle E-Business Suite 11i (11.5.10) with Oracle Database 10g™ (10.1.0.4) and Red Hat® Enterprise Linux Advanced Server release 3.0 Update 6, and achieved 17,341 Lines per Hour, 25,146 Checks per Hour, a 90th percentile response time of 1.217 seconds, and an average response time of 0.582 seconds. This result, submitted 06-20-06, was achieved on an IBM System x3850 database server configured with 4 x 3.0GHz Dual-Core Intel® Xeon® 7040 Processor (4 processors/8 cores/16 threads) with 2 x 2MB L2 cache per Core, and 32GB memory. Two IBM TotalStorage DS4500s were used for data storage. A second IBM System x3850 four-processor, Dual-Core server was used as an application/web server.