

HP ProLiant DL385 G7 with AMD Opteron™ 6282 SE processors a performance record setter!

- Takes **#1** two-processor TPC-C Performance Record
- Defeats IBM POWER 6- and POWER 7-based servers on two-processor TPC-C performance

TPC-C Performance Brief

November 2011

Executive Summary

Trouncing all competitors, including IBM POWER servers, the ProLiant DL385 G7 took the OVERALL top spot for two-processor servers with a record-breaking performance result on the TPC-C benchmark. The ProLiant DL385 G7 achieved **1,207,982 tpmC @ USD \$0.89/tpmC**.

Key Take Aways

- Performance leadership with the HP ProLiant DL385 G7, the leading two-processor 2U AMD rack server.
- The ProLiant DL385 G7 eclipsed ALL OTHER two-processor performance results, including IBM's best POWER7 two-processor server.
- HP now holds FOUR out of the TOP FIVE two-processor TPC-C performance records.

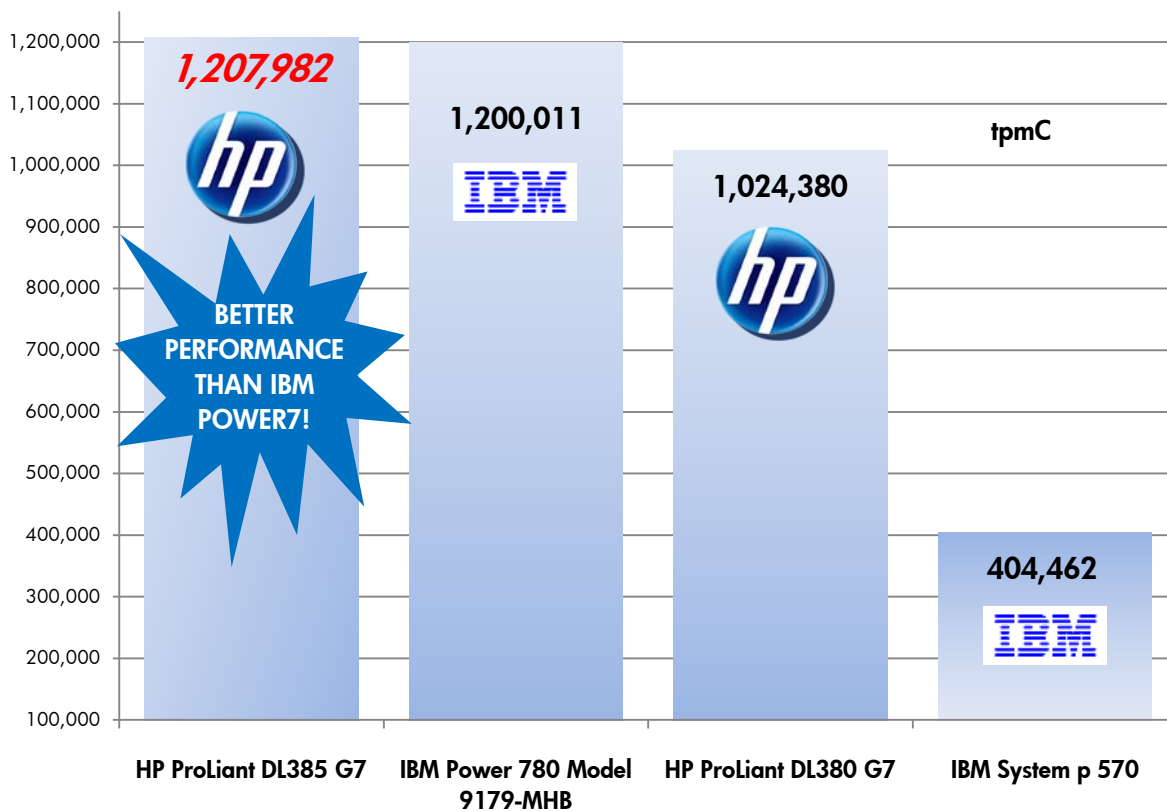
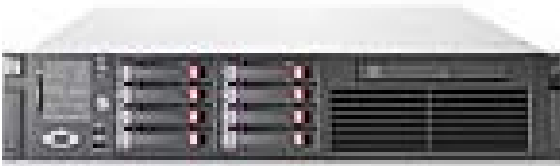


Figure 1. HP ProLiant DL385 and DL380 have leading performance results when compared with IBM POWER7 and POWER6 two-processor servers.

Customer Value

Business transformation with HP Converged Infrastructure

Converged Infrastructure – HP’s blueprint for consolidating IT – drives cost reduction and accelerates service delivery. HP Converged Infrastructure delivers breakthrough CAPEX and OPEX savings and streamlines on-demand application and service delivery by unifying server, storage, and networking resources and providing automated, end-to-end service orchestration and management capabilities.



ProLiant DL385 G7

As the leading two-processor 2U AMD rack server, the ProLiant DL385 G7 is designed with virtualization in mind, yet flexible and expandable to support any business need in many environments from corporate datacenters to sophisticated SMBs.

Benchmark configurations

The HP ProLiant DL385 G7 was set up with two AMD® Opteron™ 6282 SE processors configured as 2.60GHz 16-Core (2 processors/32 cores/32 threads) with 16MB cache and 512GB main memory (16 X 16GB DDR3 and 8 x 32GB DDR3). The server was running Microsoft Windows Server 2008 R2 Enterprise Edition operating system and Microsoft SQL Server 2005 Enterprise x64 Edition SP3 database.

In addition, the ProLiant DL385 G7 server was configured with 1 x SMART Array P401i RAID Controller, 5 HP PCI SAS HBAs, and 1 x HP SCO8e 6Gb Dual Ext. PCIe SAS HBA, with 90 x 400GB SAS SSDs, 60 x 500GB 6G SAS 72K SFF HDDs, 36 x 300GB 10K SFF SAS HDDs, and 2 x 72GB 15K SFF SAS HDDs for a total storage of 76,944GB.

See Table 2 for more hardware configuration details.

Bottom line

We believe that HP is the only company that has everything it takes to deliver a converged infrastructure that enables exponentially improved server efficiency while increasing performance. We have the intellectual property, we have the open integration, and we have the expertise to make it happen. The HP ProLiant DL385 G7 performance result on the TPC-C benchmark is just one of many proof points.

About the TPC-C benchmark

The TPC-C benchmark simulates an Online Transaction Processing (OLTP) database environment. The performance of a system is measured when the system is tasked with processing numerous short business transactions concurrently. The TPC-C workload simulates a tiered environment wherein users interact with web pages to enter business transactions. Transactions are entered by simulated users, business logic and queuing of the transactions are handled by a middle tier server, and then the transactions are passed to the TPC-C database server for processing.¹

TPC Disclosure

A full disclosure report describing these benchmark results has been filed with the Transaction Processing Performance Council (TPC) and is available upon request. This report describes the benchmark HW and SW configuration in detail, provides costs, and lists the code actually used to perform the test. Similar reports from other vendors are the source of the price/performance comparisons provided above. Summaries of all tests are published each month by the TPC and on the Internet on the TPC's World Wide Web Server. With these benchmarks, customers can objectively compare the performance of different vendors' servers in specific areas. For more details on benchmark results, policies, benchmark specification, etc. please go to www.tpc.org. Results as of November 14, 2011.

For more information

HP ProLiant DL385 G7 : <http://www.hp.com/servers/proliantdl385g7>

HP Converged Infrastructure: <http://h18004.www1.hp.com/products/solutions/converged/overview.html>

HP ProLiant performance: www.hp.com/servers/benchmarks







¹ <http://tpc.org/tpcc/default.asp>

Appendix A

HP takes FOUR of the TOP FIVE TPC-C results for two-processor performance

HP ProLiant servers continue to dominate the two-processor performance results for the TPC-C benchmark.

Table 1. The ProLiant DL385 G7 two-processor server has greater performance than all other two-processor competitors.

Sponsor	System	tpmC	Price/ tpmC	System Availability	Database
	HP ProLiant DL385 G7	1,207,982	0.89 USD	5/14/2012	Microsoft SQL Server 2005 x64 Enterprise Edition
	IBM Power 780 Server Model 9179-MHB	1,200,011	0.69 USD	10/13/2010	IBM DB2 9.5
	HP ProLiant DL380 G7	1,024,380	0.65 USD	6/21/2010	Microsoft SQL Server 2008 R2 Enterprise Edition
	HP ProLiant DL380 G7	803,068	0.70 USD	9/1/2010	Microsoft SQL Server 2005 Enterprise x64 Edition SP3
	HP ProLiant DL385G7	705,652	0.60 USD	9/1/2010	Microsoft SQL Server 2005 Enterprise x64 Edition SP3
	IBM System p 570	404,462	3.50 USD	11/26/2007	Oracle Database 10g Enterprise Edition

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TPC-C is a trademark of the Transaction Processing Performance Council. TPC-C publication on HP ProLiant DL380 G7: 1,207,982tpmc @ USD\$0.89/tpmC. System availability is May 14, 2012. Benchmark results as of November 14, 2011. Please see <http://www.tpc.org> for up-to-date information. Created November 2011



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