HP ProLiant DL585 G5 sets 4P record in virtualization performance – again!

HP Leadership

84 virtual machines

VMmark

Best 4P virtualization platform: HP ProLiant DL585 G5

The highly manageable, rack optimized, four-socket server designed for maximum performance in an industry standard architecture!

Customer Value

What are the benefits of using the HP ProLiant DL585 G5 for virtualization?

HP understands our customers' business needs and is best equipped to deliver a consolidation solution to fit those needs.

With the HP ProLiant DL585 G5, customers achieve well-balanced 4-socket architecture for reducing cost through consolidation in a platform that provides ample I/O and memory to support a very large number of virtual machines.

Because the ProLiant DL585 G5 achieved 84 virtual machines in this benchmark (14 tiles x 6 virtual machines), and can also achieve 10 servers per 42U rack, customers could potentially achieve up to 840 virtual machines per 42U rack, with a per server advantage of 2 more I/O expansion slots as compared to the Dell R905 and twice the hard drive bays as compared to the IBM x3850 M2.

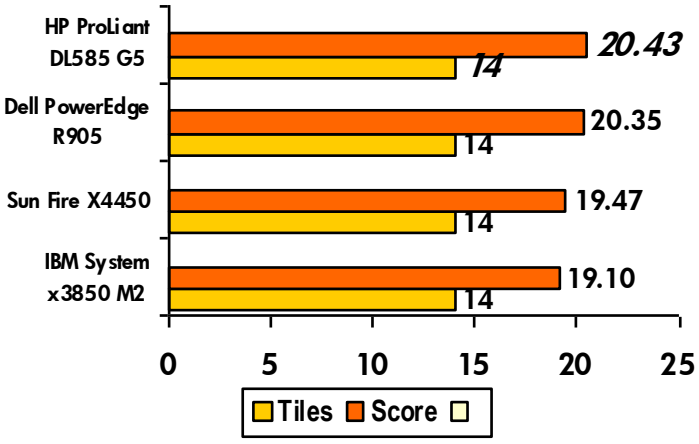
Technology for Better Business Outcomes

Key Points

- **The 16-core HP ProLiant DL585 G5 is the highest performing server on the VMmark benchmark with a leadership score of 20.43 @ 14 tiles.**
- **HP ProLiant DL585 with the new Quad-Core AMD Opteron™ Model 8386 SE processors (2.8 GHz) scores a result that defeats competitors Dell PowerEdge R905, IBM System x3850 M2, and Sun Fire X4450.**

Figure 1. VMmark benchmark comparison

The HP ProLiant DL585 G5 sets new world record in 4P virtualization performance - again!



Each tile is a collection of 6 diverse workloads each running its own virtual machine

Table 1. VMmark configuration for system results

System Description	VMmark Version	Score	Published Date
HP ProLiant DL585 G5 Quad-Core AMD Opteron 8386 SE 2.8GHz 4 sockets/16 cores/16 total threads 128 GB RAM	**VMmark v 1.1 VMware ESX v3.5 Update 3**	**20.43@14tiles**	**01/26/09**
Dell PowerEdge R905 Quad-Core AMD Opteron 8384 2.7 GHz 4 sockets/16 cores/16 total threads 128 GB RAM	VMmark v1.1 VMware ESX v3.5.0 Update 3 BETA	20.35@14 tiles	11/12/08
Sun Fire X4450 Six-Core Intel Xeon X7460 2.66 GHz 4 sockets/24 cores/24 total threads 80 GB RAM	VMmark v1.0 VMware ESX v3.5.0 Update 2	19.47 @ 14 tiles	01/13/09
IBM System x3850 M2 Six-Core Intel Xeon X7460 2.66 GHz 4 sockets/24 cores/24 total threads 80 GB RAM	VMmark v1.0 VMware ESX v3.5.0 Update 2	19.10 @ 14 tiles	09/17/08

Test results as of 01-26-09. For more details, please visit: http://www.vmware.com/products/vmmark/results.html

What VMmark measures

The VMmark benchmark is intended to measure the performance of virtualized servers on a system under test (SUT) so that customers can compare the capabilities of different platforms for virtualization. VMmark represents the performance of virtual machines within a server running VMware ESX and a set combination of operating systems and specially tuned applications reflecting a typical datacenter environment. VMmark uses a collection of 'sub-tests' derived from commonly used load-generation tools as well as from benchmarks developed by the Standard Performance Evaluation Corporation (SPEC®). VMmark is an open standards effort that is agnostic toward hardware platforms and different virtualization software systems. VMmark uses workloads that represent common applications in datacenters. It is important to note that VMmark is designed to benchmark the performance of the virtualization software and the hardware, and is not designed as a benchmark of any other software component.

For more information

HP ProLiant DL585 G5 server: www.hp.com/servers/dl585

HP VMware information: http://www.hp.com/go/vmware

An HP authored overview of the VMmark benchmark on HP ProLiant servers and server blades:
ftp://ftp.compaq.com/pub/products/servers/benchmarks/VMmark_Overview.pdf

VMmark overview: http://www.vmware.com/products/vmmark/overview.html

For information about VMmark and the rules regarding its usage visit www.vmware.com/go/vmmark. VMware® VMmark™ is a product of VMware, Inc. VMmark utilizes SPECjbb2005® and SPECweb2005®, which are available from the Standard Performance Evaluation Corporation (SPEC). The competitive benchmark claim is based on having the best 4P VMmark results published on www.vmware.com as of 01/26/09. HP DL585 G5 VMmark disclosure can be found at: ftp://ftp.compaq.com/pub/products/servers/benchmarks/HP_ProLiant_DL585_2.8_vmmark.pdf. January 2009