HP ProLiant DL785 G5 posts #1 result for virtualization performance

96 virtual machines:
the best x86 virtualization platform

VMmark

HP ProLiant DL785 G5

The industry's 8-socket workhorse delivers leading headroom and expandability for x86 virtualization and enterprise applications – the most expandable 8-socket x86 server available!

Customer Value

What are the benefits of using the HP ProLiant DL785 G5 and VMware?

HP understands and is best equipped to deliver a consolidation solution to fit customer business needs. With the HP ProLiant DL785 G5, customers achieve well-balanced 8-socket architecture for reducing cost through consolidation in a platform that provides more I/O expansion and hard drive storage per rack unit than competing 8-socket x86 servers. Because the ProLiant DL785 G5 can achieve 96 virtual machines, customers can achieve nearly 600 virtual machines per 42U rack!

Key Points

• HP scores VMmark result with largest number of virtual machines ever achieved on an x86 platform

• The HP ProLiant DL785 G5 is the highest performing server on the VMmark benchmark with a score of 21.88@16 tiles.

• The HP ProLiant DL785 G5 proves its ideal suitability for virtualization and consolidation environments.

Figure 1. VMmark benchmark comparison

The HP ProLiant DL785 G5 posts a new world record and first 8-socket result!
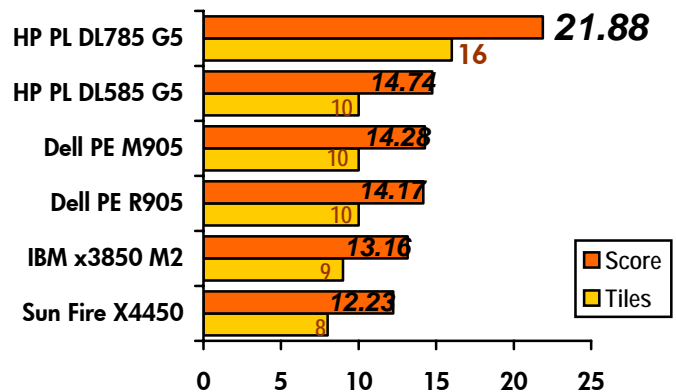
HP holds these top two VMmark benchmark results:

- **#1 8-socket on DL785**

- **#1 4-socket on DL585**

Results as of 8-18-08.

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Table 1. VMmark configuration for system results.

System Description	VMmark Version	Score	Published Date
HP ProLiant DL785 G5 **Quad-Core AMD Opteron 8360 SE 2.5GHz, 128 GB RAM; 8 sockets/32 cores/32 total threads**	**VMmark v 1.1** **VMware ESX v3.5.0 Update 1**	**21.88@16 tiles**	**08/18/08**
HP ProLiant DL585 G5 Quad-Core AMD Opteron 8360 SE 2.5GHz, 64 GB RAM; 4 sockets/16 cores/16 total threads	VMmark v 1.1 VMware ESX v3.5.0 Update 1	14.74@10 tiles	08/04/08
Dell PowerEdge M905 Quad-Core AMD Opteron 8356 SE 2.3 GHz, 64 GB (16 x 4GB) RAM; 4 sockets/16 cores/16 total threads	VMmark v 1.0 VMware ESX v3.5.0 Update 2	14.28@10 tiles	08/12/08
Dell PowerEdge R905 Quad-Core AMD Opteron 8360 SE 2.5 GHz, 64 GB (16 x 4GB) RAM; 4 sockets/16 cores/16 total threads	VMmark v 1.0 VMware ESX v3.5.0 Update 1	14.17@10 tiles	05/06/08
IBM System x3850 M2 Quad-Core Intel Xeon X7350 2.93 GHz 64 GB (32 x 2GB) RAM; 4 sockets/16 cores/16 total threads	VMmark v 1.0 VMware ESX v3.5.0	13.16@9 tiles	03/26/08
Sun Fire X4450 Quad-Core Intel Xeon X7350 2.93 GHz 64 GB (16 x 4 GB) RAM; 4 sockets/16 cores/16 total threads	VMmark v 1.0 VMware ESX v3.5.0	12.23@8 tiles	04/25/08

Test results as of 8-18-08. 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 DL785 G5 server: www.hp.com/servers/dl785

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