The HP ProLiant ML370 G5 provides industry-leading management, performance and availability in a dual processor expansion server engineered to excel in a variety of environments from corporate work groups in growing businesses to critical remote sites requiring continuous accessibility and uptime.

Customer Value

What are the benefits of using HP ProLiant servers and VMmark?

HP ProLiant servers and VMware provide organizations with a robust and reliable platform for virtualization.

The VMmark benchmark measures the key performance characteristics for virtual machines. The benchmark represents an end user environment running multiple workloads, is platform neutral, and provides a methodical way to measure scalability so that the same benchmark can be used across different hardware platforms.¹

The HP ProLiant ML370 G5 offers up to a 20% performance advantage when compared to other two-socket, 8-core competitors utilizing VMware. With the VMmark benchmark result, customers can compare performance and scalability of different virtualization platforms, make appropriate hardware choices and monitor virtual machine performance on an ongoing basis. And they can be reassured the HP ProLiant ML370 G5 is the appropriate choice.

Figure 1. VMmark results for two-socket, 8-core servers

The HP ProLiant ML370 G5 defeats other 8-core competitors by up to 10% by running more VMs on the virtualization benchmark!

¹ Excerpted from http://www.vmware.com/products/vmmark/faq.html
Table 1. VMmark configuration for system results.

<table>
<thead>
<tr>
<th>System Description</th>
<th>VMmark Version &amp; Score</th>
<th>Processors</th>
<th>Published Date</th>
</tr>
</thead>
</table>
| **HP ProLiant ML370 G5**  
Quad-Core Intel Xeon X5470 3.3 GHz  
48 GB RAM; 2 sockets/8 cores/8 total threads | VMmark v1.1  
VMware ESX v3.5.0 Update 3 | 9.15 @ 7 tiles | 10/09/08 |
| **Dell PowerEdge M600**  
Quad-Core Intel Xeon X5470 3.3 GHz  
32 GB RAM; 2 sockets/8 cores/8 total threads | VMmark v1.1  
VMware ESX v3.5.0 Update 2 | 8.97 @ 6 tiles | 09/24/08 |
| **Dell PowerEdge 2900 III**  
Quad-Core Intel Xeon X5470 3.3 GHz  
64GB; 2 sockets/8 cores/8 total threads | VMmark v1.1  
VMware ESX v3.5.0 Update 2 | 8.94 @ 6 tiles | 09/29/08 |
| **IBM System x3650**  
Quad-Core Intel Xeon X5460 3.13 GHz  
32 GB; 2 sockets/8 cores/8 total threads | VMmark v1.1  
VMware ESX v3.5.0 Update 1 | 8.63 @ 6 tiles | 09/02/08 |
| **IBM BladeCenter HS21 XM**  
Quad-Core Intel Xeon X5450 3.0 GHz  
32 GB; 2 sockets/8 cores/8 total threads | VMmark v1.1  
VMware ESX v3.5.0 Update 1 | 8.44 @ 6 tiles | 09/05/08 |


The ProLiant advantage

**HP ProLiant ML370 G5**

The flagship ML370 G5 provides industry-leading management, performance and availability in a dual processor expansion server engineered to excel in a variety of environments from corporate work groups in growing businesses to critical remote sites requiring continuous accessibility and uptime.

- Optimize System Performance and Ease of Serviceability
- Manage Seamlessly From Anywhere, Anytime
- Enterprise-class Redundancy Features
- Maximum flexibility

HP ProLiant servers, BladeSystem, and VMmark

*Partnership between HP and VMware*

HP is proud that the HP ProLiant DL580 server platform was chosen to be the reference system in the development of the VMmark benchmark. More than a dozen ProLiant servers are certified for VMware. HP can help your business plan, implement, and operate a virtual infrastructure with VMware. HP qualifies a wide range of ProLiant servers, StorageWorks storage, and integrated HP management software. For a quick overview, visit [www.hp.com/go/vmware](http://www.hp.com/go/vmware) for more information. HP lists a total of 46 VMware ESX Server certified servers, more than IBM (37), Dell (23), and Sun (21).  

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2 Same cross-generational count used for competitor platforms. For the most up to date list visit: [www.hp.com/go/vmware](http://www.hp.com/go/vmware) and [http://www.vmware.com/pdf/vi3_systems_guide.pdf](http://www.vmware.com/pdf/vi3_systems_guide.pdf). The VMware systems guide was last updated October 8, 2008.
HP market leadership

HP ProLiant servers and server blades are a vital part of the HP success story. September 2008: IDC released a quarterly update to their Worldwide Quarterly Server Tracker, citing market share figures for the 2nd calendar quarter of 2008 (2Q08). Consider these telling facts:
(Source: All of the following market share figures are for the 2nd Quarter of 2008 (unless otherwise noted) and represent worldwide results as reported by the IDC Worldwide Quarterly Server Tracker, August 2008)

HP leads with #1 x86 market share in Q2/083

- For the 25th consecutive quarter, over 6 years, HP is the #1 vendor in worldwide server shipments. HP shipped 1 out of every 3 servers worldwide as HP captured 33.6 percent total unit shipment share.
  - HP shipped over 133,000 more servers than #2 Dell.
  - HP shipped over 410,000 more servers than #3 IBM and 7.4 times as many as #4 Sun.
- For the 48th consecutive quarter, 12 years, HP ProLiant is the x86 server market share leader in both factory revenue and units, shipping 1 out of every 3 servers in this market.
  - HP’s x86 revenue share was 9.2 points higher than its nearest competitor, Dell.
  - HP remains the leading provider of AMD Opteron processor-based servers and server blades, with a 35.8% of factory revenue share.

Proven performance

Proven performance is part of the reason that HP is #1 in server shipments. HP has posted hundreds of benchmark results on the most commonly used benchmarks on hundreds of ProLiant servers and blades, helping customer to identify reasons to be confident in HP.

For more information

For more information on VMware for HP ProLiant servers:

HP ProLiant ML370 G5: www.hp.com/servers/proliantml370

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October 2008

*Includes Compaq ProLiant from Q196 through Q202 and HP ProLiant from Q302 through Q306. Source: IDC Worldwide Quarterly Server Tracker August 2008