**Executive summary**

The HP ProLiant ML370 G6 (tower) and DL370 G6 (4U rack) establish world-record performance result for 8-core servers.

**Key Take Aways:**
- The HP ProLiant ML370 G6/DL370 G6 with 3.2-GHz Intel® Xeon® W5580 processors delivers better performance than a competitor with 3.33-GHz Intel Xeon W5590 processors.
- The only currently posted 8-core result with 108 virtual machines.
- Excellent proof point for virtualization solutions.

**ML370/DL370 G6 is top 8-core server**

<table>
<thead>
<tr>
<th></th>
<th>Score</th>
<th>Tiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP ProLiant ML370/DL370 G6</td>
<td>26</td>
<td>18</td>
</tr>
<tr>
<td>Fujitsu RX300 S3</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>Cisco UCS M200 M1</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

**Delivering the data center of the future with Converged Infrastructure**

HP is at an inflection point where our technology is coming together to help our clients build the data center of the future; and it will be based on a Converged Infrastructure. HP is uniquely positioned to build the Converged Infrastructure because HP is the only company to offer a full portfolio of standards-based, integrated solutions and services developed specifically to solve the complexities of the data center.

**Common modular Infrastructure** - Customers can use the same architecture to run and manage multiple workloads across servers, storage and networking.

**Data Center Smart Grid** - Unmatched functionality with Sea of Sensors to monitor energy consumption and automatically adjust cooling resources, and Thermal Logic, which can move power and cooling resources where needed when needed and includes Dynamic Power Capping to increase the capacity of the data center.

**FlexFabric** - Clients can avoid the latency and contention issues caused by traditional switching in the data center and instead integrate servers with a seamless, virtual network fabric.

**Common Management Platform** - Only HP, with products like the Matrix Operating Environment and Orchestration, has a common management platform that extends from infrastructure-to-application, across servers, storage and networks, managing both HP and other vendors’ technologies.

**Building blocks for the Converged Infrastructure**

Only HP delivers servers that are optimized for dynamic, service-oriented and highly-virtualized environments. Offered as common building blocks for a converged infrastructure, HP servers set the standard in ease of management, energy efficiency and return on investment.
Customer benefits of virtualization deployment with HP platforms

HP ProLiant ML370 G6 and DL370 G6

The HP ProLiant ML370 G6 tower server and the DL370 G6 rack server provide dual-processor compute power in a convenient, 4U expandable tower or rack chassis designed for businesses who want enterprise class features and performance. The HP ProLiant ML370 G6 and DL370 G6 have been optimized for virtualization and consolidation environments and are well-suited for deployment in growing businesses, remote office sites, or datacenters. The HP ProLiant ML370 G6 and DL370 G6 offer enhanced power management, support for power monitoring, regulation, and capping. The HP ProLiant ML370 G6 and DL370 G6 deliver more power for your needs with the highest efficiency in the industry, meeting Climate Savers Computing Gold, 80PLUS Gold, and setting standards for Energy Star for Servers.

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 ML370 G6/DL370 G6 performance on the VMmark benchmark is just one of many proof points.

Table 1. The HP ProLiant ML370 G6/DL370 G6 and two other 8-core results on the VMmark benchmark

<table>
<thead>
<tr>
<th>System Description</th>
<th>VMmark Version</th>
<th>Score</th>
<th>Published Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP ProLiant ML370 G6/DL370 G6 2P (2 processors/8 cores/16 threads)</td>
<td>VMmark v1.1.1 VMware ESX v4.0</td>
<td>25.29@18 tiles</td>
<td>04/06/10</td>
</tr>
<tr>
<td>Fujitsu RX300 S5 Quad-Core Intel Xeon W5580 3.2 GHz (2 processors/8 cores/16 threads)</td>
<td>VMmark v1.1.1 VMware ESX v4.0 Update 1, Build 208167</td>
<td>25.16@17tile</td>
<td>11/09/09</td>
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<tr>
<td>Cisco UCS B200 M1 Quad-Core Intel Xeon 5570 2.93 GHz (2 processors/8 cores/16 threads)</td>
<td>VMmark v1.1.1 VMware ESX v4.0 Build 164009</td>
<td>25.06@17tiles</td>
<td>01/12/10</td>
</tr>
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</table>

About the VMmark benchmark

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 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 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. Test results as of 04/06/10.

For more information check out:


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