HP ProLiant DL370 G6 rocks with SSD on SPECweb2009
Another SPECweb2009_JSP world record for HP ProLiant!

- HP Solid State Disk (SSD) performance reigns supreme!
- SSD technology surpasses traditional disks by 75%.

### Outstanding energy efficiency with SSD
In order to achieve the same performance, 15K SFF SAS disks required 25 drives deployed in an HP MSA70 external enclosure.
In comparison, the SSD configuration required **only 12 drives**, which were deployable within the server platform with no need for an external enclosure.

### 250 watt reduction in power consumption
SPECweb2009_JSP_Peak performance increased by 7.8% while reducing overall power consumption by a staggering 250 watts. The power/performance metric, SPECweb_JSP_Power increased by 75% with SSD disks.

### Increased performance with SSD
With 12 internal SSD drives, the DL370 G6 scored 100,050 sus @ 410 W. With 25 external SFF SAS drives, the DL370 G6 scored 92,779 sus @ 660 W.

### Business outcomes
With this result, HP SSD drives show excellent capability to deliver performance to meet business needs while significantly reducing energy costs for its customers.

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**Test results as of 09-08-09. For more details, please visit:** [http://www.spec.org/web2009/results/web2009.html](http://www.spec.org/web2009/results/web2009.html)

**What are the benefits of using the HP ProLiant DL370 G6 and SSD for energy savings?**
HP understands customers’ business needs and is best equipped to deliver a consolidation and virtualization solution to fit those needs. The DL370 G6 has historically achieved leading results on the SPECweb2009 benchmark. This latest result illustrates the HP commitment to continuously driving competitive Industry Standard Server economics hand-in-hand with performance.
The HP ProLiant DL370 G6 (rack-optimized) and the HP ProLiant ML370 G6 (tower with an option to rack) servers continue to deliver the best blend of 2-socket performance and affordable availability for a variety of applications. The DL370 G6 offers enhanced power management, support for power monitoring, regulation, and capping, and support for HP Insight Power Manager.

**What SPECweb2009 measures:**
Currently, many vendors report some energy-efficiency figures, but these are often not directly comparable due to differences in workload, configuration, test environment, etc. SPEC defines server power measurement standards with the same keen attention to detail that it has applied to performance. This benchmark provides a means to measure power in conjunction with a performance metric, enabling IT managers to consider power characteristics to increase the efficiency of data centers. Being a Standard Performance Evaluation Corporation (SPEC) benchmark, SPECweb2009 is a peer-reviewed benchmark that provides a way for server vendors to compare benchmark results in a fair manner. More information about SPECweb2009_JSP results can be found at the following Web page: http://www.spec.org. Results as of 09-08-09.

**Server configuration**
The HP ProLiant DL370 G6 with the external MSA70 was configured with:
- Intel Xeon QuadCore W5580 3.2GHz processors, 8 cores, 2 chips, 4 cores/chip, 16 threads
- 48 GB memory
- 1x146GB SFF SAS 15K RPM and 25x72GB SFF SAS 15K RPM disk drives
- Smart Array P410i (embedded), Smart Array P411 Controller with 512MB cache
- HP StorageWorks MSA70
- RedHat Enterprise Linux 5.3 (2.6.18-128.el5)
- Dual-Port Raywire2 10 GbE Network Adapter by ServerEngines (BE4TGX14-P01)

The HP ProLiant DL370 G6 with the internal SSDs was configured with:
- Intel Xeon QuadCore W5580 3.2GHz processors, 8 cores, 2 chips, 4 cores/chip, 16 threads
- 48 GB memory
- 1x146GB SFF SAS 15K RPM and 12x120GB SFF SSD
- Smart Array P410i (embedded), Smart Array P411 Controller with 512MB cache
- Red Hat Enterprise linux 5.3 (2.6.18-128.el5)
- Dual-Port Raywire2 10 GbE Network Adapter by ServerEngines (BE4TGX14-P01)

**Technology for better business outcomes**
To learn more, visit www.hp.com/servers/proliantdl370

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