

HP ProLiant DL585 G7 servers with the AMD Opteron™ 6100 Series processor

Running VMware® vSphere™

Solution brief

Spend less on servers, more on business

For CIOs, there's a new reality: you're no longer running IT; you're driving the business. For a better return on IT investments, optimizing your virtual environment is the answer.

What if you could increase scalability and performance in your virtualized server environment, in the data center and across the enterprise? How about realizing better uptime than non-virtualized server environments? To manage, provision, update and monitor virtual and physical servers, you need better control of your virtualized environment. And you need to spend less on energy and have more for the business. For this, HP, AMD and VMware have the answer.

Accelerate your virtualization

HP continues to raise the bar on technology innovation and engineering excellence. The new HP ProLiant DL585 G7 server delivers industry-leading efficiencies to reduce costs in capital and operating budgets. The HP ProLiant DL585 G7 server features the latest scale-up AMD Opteron™ 6100 Series processor that has up to 12 cores per CPU, supports up to a 512 MB memory footprint and has up to 11 PCIe 2.0 I/O slots. This perfect balance of having a new system architecture, extensive memory capacity and I/O throughput significantly accelerates virtualization and removes performance bottlenecks. The best part is the HP ProLiant DL585 G7 server with the AMD Opteron 6100 Series processor is the first server that can pay for itself in as little as 30 days and deliver 4P performance with 2P economics.¹

Our server also achieves huge savings in power and cooling while creating highly available, densely consolidated solutions. In addition, HP Insight Control for VMware vCenter™ Server gives you the power of infrastructure management directly in your vCenter console—giving you the ability to manage and monitor the health of both your virtual and physical server and storage solutions.

Making a virtual impact

HP and VMware deliver smart, flexible systems that provide lower OPEX and CAPEX through improved resource utilization and more efficient management across joint virtual and physical solutions.

Because virtual server environments create utilization, availability, management and performance demands on the storage infrastructure, storage virtualization is the key to realizing the full ROI potential.

For enterprise firms looking to consolidate storage into virtual resource pools to support virtual server deployments, the HP StorageWorks EVA Cluster provides the ability to scale beyond single-array limitations with a turnkey multi-array cluster that reduces management costs by 50% and scales to almost 2,000 drives. Thin provisioning improves storage utilization and lowers storage costs, even across non-HP arrays. EVA Cluster also delivers a highly available configuration that provides transparent failover to ensure continuous data availability for virtual servers during failures.

HP, AMD and VMware

Tackle virtualization workloads cost-effectively, with configurations offering 4P performance at 2P economics.¹ HP and AMD are collaborative partners who work together to create innovative and proven solutions. With AMD delivering highly integrated server platform building blocks, we instill confidence by providing thoroughly validated and reliable HP solutions.

HP and VMware have delivered proven virtualization solutions for the data center, desktop and cloud since VMware's inception, resulting in the largest shared installed base of virtualized servers. In fact, VMware customers choose HP ProLiant servers more than any other vendor's platform. HP has the largest number of VMware-certified server platforms and storage products,² as well as integrated physical and virtual management. Let HP Technology Services' 1,100+ VMware Certified Professionals deliver your solution.



Solution option	Description
HP ProLiant servers	<ul style="list-style-type: none"> HP ProLiant DL585 G7 server featuring the AMD Opteron 6100 Series processor running VMware vSphere 4, the industry's first cloud operating system that is transforming data centers into simplified cloud infrastructures and enabling the next generation of flexible, reliable IT services
HP StorageWorks	<ul style="list-style-type: none"> HP Enterprise Virtual Array (EVA) or EVA Cluster scales to 2 PB of capacity, supports FC, iSCSI or FCoE connectivity and supports SSD, FC and FATA drive types; for more information, visit www.hp.com/go/storagevirtualization
HP Management tools	<ul style="list-style-type: none"> The HP Insight Control extension for VMware vCenter Server delivers powerful HP hardware management capabilities to your virtualization administrators that enable comprehensive monitoring, remote control and power optimization directly from the VMware vCenter console
HP Technology Services	<ul style="list-style-type: none"> Manage your technology in action with Proactive and Mission Critical Services, which provide 24x7 support for improved reliability and complete system balance; for more information, visit www.hp.com/services/proliant

Benefits of our solution

Accelerate application deployment, reduce power consumption, increase system availability and improve business continuity by minimizing unplanned downtime and improving recovery time. Boost overall data-center system performance with the increased memory and storage capacity of the HP ProLiant DL585 G7 servers featuring the AMD Opteron 6100 Series processor. Reduce energy consumption with HP Thermal Logic technology and Dynamic Power Capping in the HP Insight Control power management tools.³ In addition, the HP Converged Infrastructure provides servers, storage and networking—all managed through a common platform to deliver a new level of integration, simplicity and automation that result in faster ROI, more flexibility and less risk.

For more information

Call your authorized HP and VMware reseller today. For more on HP ProLiant servers, visit www.hp.com/go/proliant. Visit www.hp.com/go/vmware for more on HP and VMware solutions. Read about the AMD Opteron 6100 Series processor at www.amd.com/opteron. Learn about the HP Converged Infrastructure strategy, portfolio and architecture at www.hp.com/go/ConvergedInfrastructure.

¹ Based on Six-Core AMD Opteron™ processor Model 2435 1ku at \$989 as of 10/19/09 vs. AMD Opteron™ processor Model 6172 ("Magny-Cours") 1ku planned for \$989 at time of launch; ROI: based on HP internal research comparing HP ProLiant DL360G4 to HP ProLiant DL585 G7 server

² www.vmware.com/resources/compatibility/search.php; on the Systems, IO Devices and Storage/SAN tabs, search on Product Release Version: All and Partner Name: HP

³ http://h18004.www1.hp.com/products/blades/thermal-logic/?jumpid=reg_R1002_USEN

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