

# Teratec

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# Breakthrough innovation and scale

Tackle any challenge, with HPC solutions from HP

## Overcome barriers to Innovation and Scale

- Realized system performance and throughput
- Power capacity and cost
- Infrastructure complexity and inflexibility

**Faster**



Speed advancements with a converged infrastructure, purpose-built for scale.

**Better**



Optimize your performance footprint with the world's most efficient systems.

**Smarter**



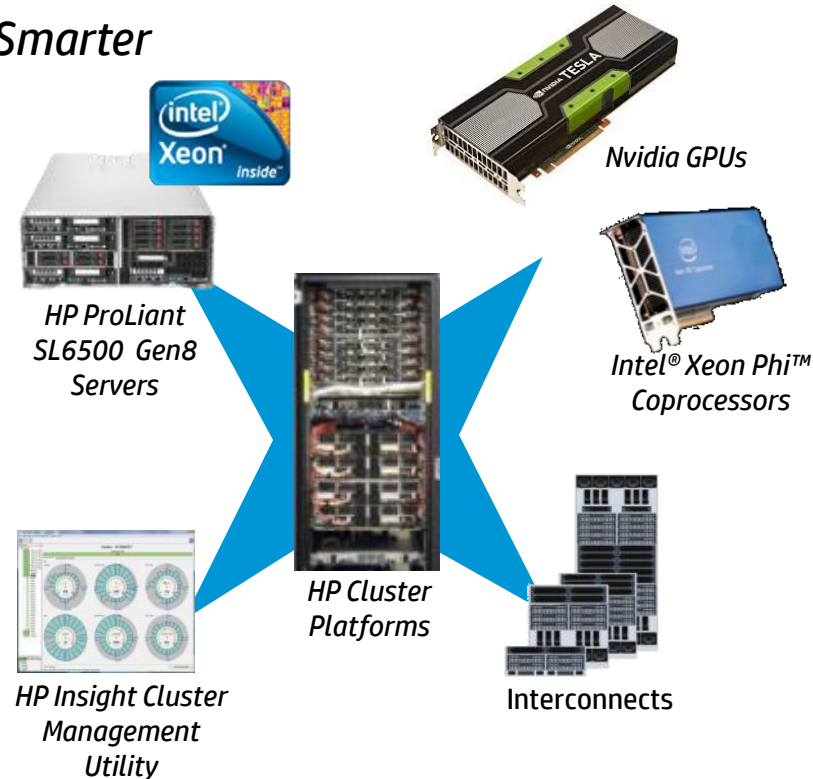
Deploy and manage easily, adapt quickly to change & improve quality of service.



# Breakthrough innovation and scale

## HP ProLiant Gen8 systems for HPC – *Faster, Better, Smarter*

- Industry-leading HP ProLiant Gen8 Servers, based on the ProActive Insight Architecture, purpose-built for HPC
- Integrated accelerators/GPUs for explosive growth in performance and performance/watt
- New levels of scalability with high performance InfiniBand solutions from Intel and Mellanox
- Complete HP Cluster Platform solutions with simple single-pane-of-glass cluster provisioning, management and monitoring

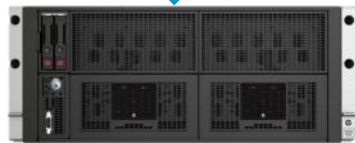


# HP ProLiant SL4500 HyperStorage Series

Purpose built storage density and efficiency for scale out storage

SL4540 & SL4545  
(1X60)

**Object Storage & DB**



**Single node**

*Unmatched storage density  
with 60 LFF drives in a single  
node per chassis*

SL4540 & SL4545  
(2X25)

**Email & Hadoop**



**Dual node**

*Ideal combination storage density  
and compute with 25 LFF drives per  
node in a dual node chassis*

SL4540 & SL4545  
(3X15)

**MongoDB & Hadoop**



**Triple node**

*Optimal storage and compute  
with 15 LFF drives per node in a  
triple node chassis*

# Next generation ultra-efficient HPC system

Being deployed now at the DoE National Renewable Energy Laboratory (NREL)



Visit NREL during HP-CAST21, Denver  
Save the date: Nov 15-16, 2013

[www.nrel.gov](http://www.nrel.gov)

**The first HPC data center dedicated solely to advancing energy systems integration, renewable energy research, and energy efficiency technologies**

New ultra-energy-efficient, petascale HPC system

- Designed in collaboration with HP and Intel
- Warm-water cooled, with component level liquid cooling
- Heat energy to be reclaimed for NREL buildings and campus
- To be completed in the summer of 2013

**Designed to support NREL's mission, address research challenges, reduce risks and accelerate the transformation of our energy system.**



# What is HP Moonshot System?

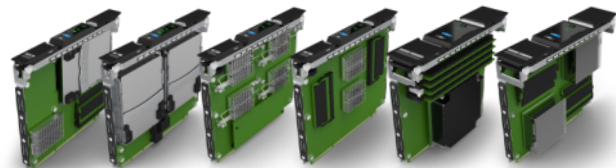
The world's first software defined server

**Revolutionary new server architecture**

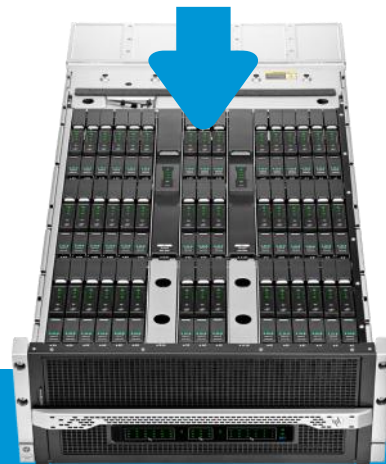
**Designed for “at-scale” applications**

**Built for energy optimized servers**

**To reduce cost, power, and space**



Software Defined Servers



**80%**  
Less space

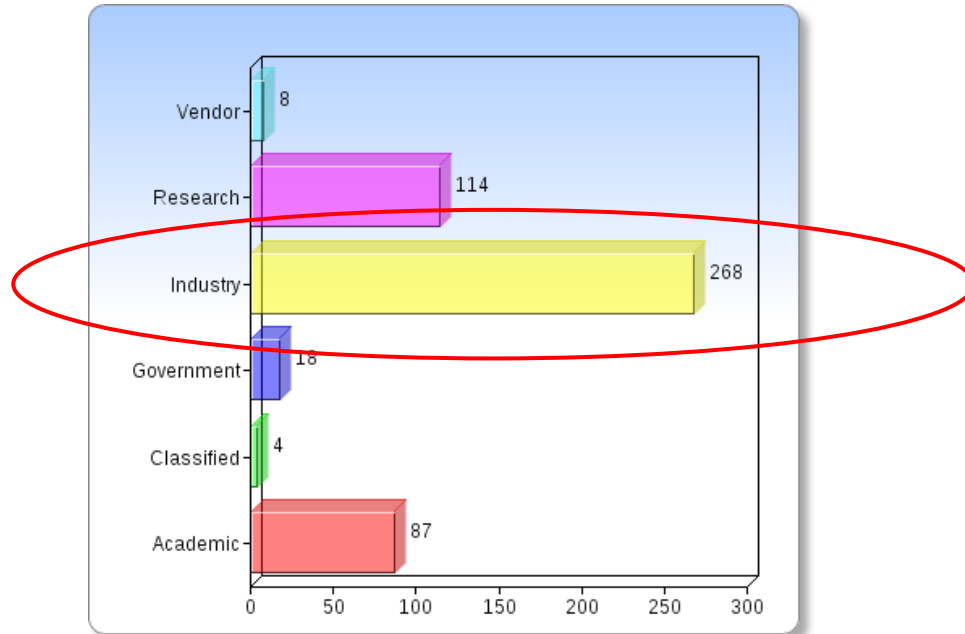
**77%**  
Less cost

**89%**  
Less energy

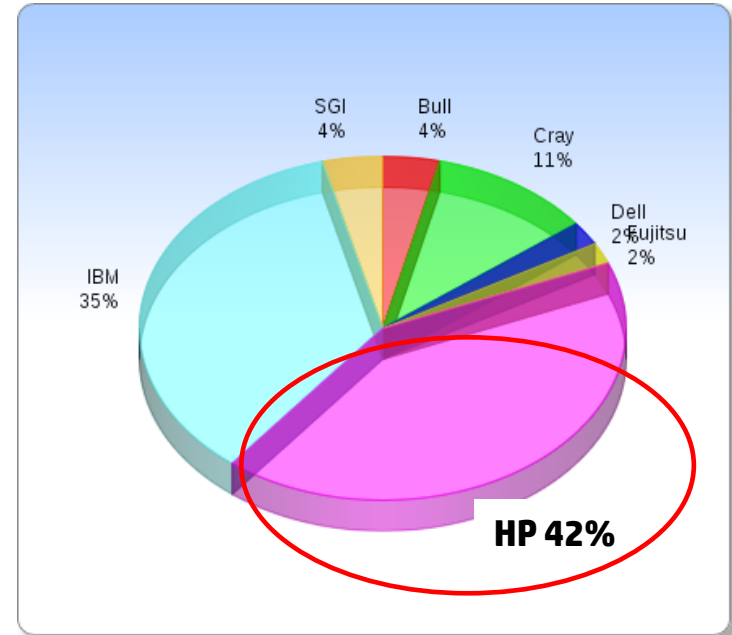
**97%**<sup>(\*)</sup>  
Less complexity

\*Source: Based on HP Internal Research

# HP delivers ! June 2013 Top500



Non-academic users are now  
59% of Top500 systems



HP clear leader of WW vendors  
with 188 systems

Visit the HP booth @ Teratec  
See HP's Moonshot and SL4500

Also attend the “Atelier Efficacité Energétique”  
*Etat de l'art des solutions basse consommation / haute  
densité et de leur manageabilité:  
étude de cas HP Moonshot Gemini*

