Solving global problems requires greater...

Genetics

Digital Content

Medical research

Weather modeling

Manufacturing/Engineering

Finance

Performance

Efficiency

Accessibility
Delivering a complete HPC solution

- Cloud
- Servers
- Storage
- Accelerators
- Network
- Power & Cooling
- Management
- Services
- Client Systems
Workload-optimized portfolio for better business outcomes

For core business applications
- HP MicroServer
- HP ProLiant ML
- HP ProLiant DL

Intelligence to increase productivity

For mission-critical environments
- HP ProLiant scale-up
- “DragonHawk”
- HP Integrity blades & Superdome
- HP Integrity NonStop

Availability to function in real-time

For Big Data, HPC, and web scalability
- HP ProLiant SL
- HP Moonshot
- HP Apollo

Density and efficiency to scale rapidly

For virtualized and cloud workloads
- HP BladeSystem
- HP OneView

Convergence to accelerate IT service delivery

Global support and services | Best-in-class partnerships | Converged solutions
HP’s winning portfolio for HPC
Innovations in modularity and workload optimization

Compute intensive: SL6500
Scalable multi-node: SL2500
Rack scale: Apollo 6000
Storage density: SL4540
Liquid cooling: Apollo 8000
Modular data centers: POD

Global support and services | Best-in-class partnerships | Converged solutions
Introducing the HP Apollo 6000 System
The best performance for your budget

Leading performance per $ per watt*
• up to 4x more performance/$/watt
• up to 60% less floor space

Rack scale efficiency
• 160 x 1P or 80 x 2p servers per rack with 10 hot-pluggable dual-server trays per 5U chassis
• Maximize rack-level energy efficiency

Tailor to the workload for lower TCO
• Mix compute, accelerator, storage and networking to fit workload needs

Perf/$/Wbased on Synopsys VCS data March 2013, measured HP data vs. Dell PowerEdge M620 blade published power calculator and Dell/HP ILP, March 2014.
HP internal estimate vs Dell PowerEdge Blade M620 in an 80-node compare. Dell PowerEdge M620 blade configuration takes 2.5 racks vs HP Apollo 6000 System configuration which takes 1 = 60% less space
The New HP Apollo 8000 System
Advancing the science of supercomputing

Leading teraflops per rack for accelerated results
- 4X teraflops/sq. ft. than air-cooled systems
- > 250 teraflops/rack

Efficient liquid cooling without the risk
- 40% more FLOPS/watt and 28% less energy than air-cooled systems
- Dry-disconnect servers, intelligent Cooling Distribution Unit (iCDU) monitoring and isolation

Redefining data center energy recycling
- Save up to 3,800 tons of CO2/year (790 cars)
- Recycle water to heat facility
Reinventing HPC today to accelerate the world of tomorrow

Accelerating performance to speed up answers

Maximizing efficiency for sustainability and savings

Unleashing HPC to enterprises of any size

4x teraflops per square foot

4x density per rack per dollar

Years to days for new innovations

HP Apollo family
Optimizing rack-scale computing for HPC
Thank you