



HP Update

Bill Mannel
VP/GM HPC & Big Data Business Unit
Apollo Servers

The most exciting shifts of our time are underway



Time to revenue is critical

Decisions
must be rapid

**Making IT critical
to business success**

Business needs
happen anywhere

Change is constant

30 billion
devices

40 trillion GB
data

By 2020

10 million
mobile apps

...for **8 billion**
people



HP's compute portfolio for better IT service delivery

Software-defined and cloud-ready



Workload-optimized

Mission-critical environments



Availability
for continuous business

Virtualized & cloud workloads



Convergence
to accelerate IT service delivery

Core business applications



Intelligence
to increase productivity

Big Data, HPC, & web scalability



Density and efficiency
to scale rapidly

SP Workloads



Lowest Cost
built to Scale

Converged

Converged network
HP Networking

Converged management
HP OneView

Converged storage
HP StoreVirtual VSA

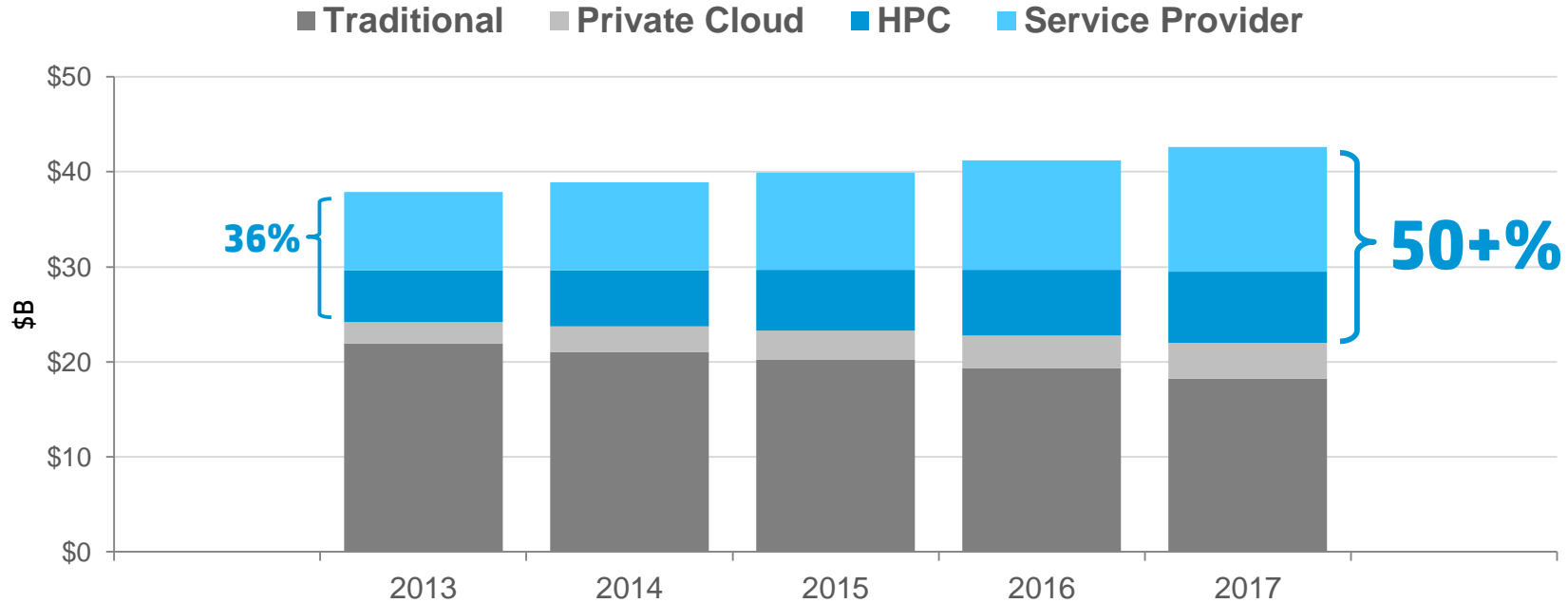
Common modular architecture

Global support and services | Best-in-class partnerships | ConvergedSystem



Hyperscale compute grows 10X faster than the total market

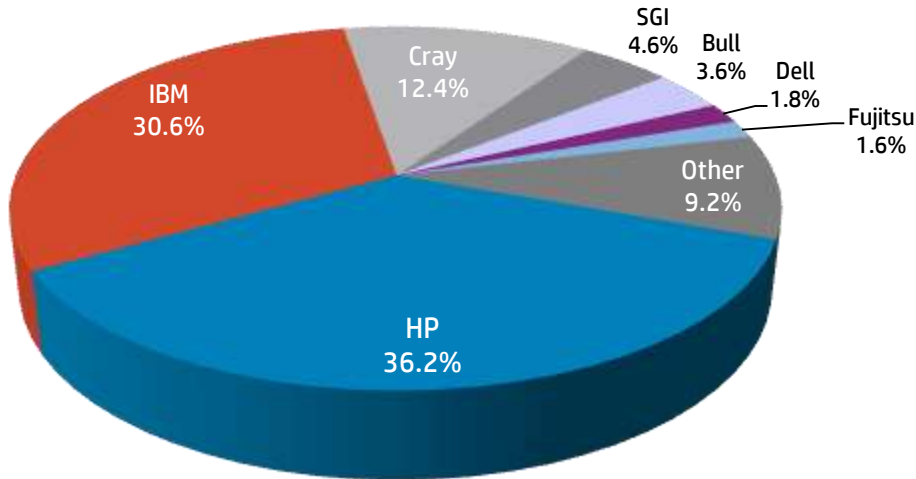
HPC is a strategic growth market for HP



HP is the HPC market leader

HP in the TOP500 list

Nov'14 TOP500



Top100 Systems

- 15. Tokyo Tech Tsubame 2.5
- 53. Purdue University Conte
- 63. Saudi Aramco
- 89. Clemson Palmetto2
- 91. "Service Provider"
- 94. USC HPCC
- 96. Airbus HPC4
- 99. "Energy Company"



HP has created an HPC & Big Data Global Business Unit

Mission is to deliver complete HPC & Big Data solutions



Servers

HP Apollo Systems
HP BladeSystem
HP ProLiant Gen9 and
HP Integrity Superdome X
Servers



Storage

HP SL4500 System
with Object-Storage
and HPC Storage
Solutions
3rd party Lustre Solutions



Accelerators

AMD FirePro GPUs
Intel Xeon Phi Coprocessors
NVIDIA Grid and Tesla GPUs
HP Accelerator-enabled Servers



Remote Desktops

NVIDIA Grid GPUs,
HP GPU-enabled Servers,
HP Workstation Blade Servers,
HP Remote Graphics and
3rd party S/W



Network

Intel and Mellanox
InfiniBand,
Low-Latency Ethernet



Power & Cooling

HP Modular Cooling System
HP Performance Optimized DataCenter
HP Apollo 8000 System



Management

HP Insight CMU
Insight CMU Connector Partners
HP OpenView



Cloud

HP Helion Self-Service
HPC Solution
OpenStack



Services

HP Services for HPC

HP HPC/Big Data GBU Structure

Bill Mannel
VP & GM

Product & HPC/Big Data Solutions Management (20)

Apollo 2000

Apollo 4000 & Big Data Solutions

Apollo 6000

Apollo 8000

HPC R&D (250)

Apollo & Big Data Engineering

Core Engr
Power
Cooling
POD
Object Storage

HPC Pursuit (50)

HPC GM

Benchmarking
Apps Engr
Fabrics
Accelerators

HPC Bus Dev (2)

HPC Bus Dev

HPC Marketing (5)

HPC Marketing



Solving global problems requires greater...



Genetics



Digital
Content



Medical
research



Weather
modeling



Manufacturing/
Engineering

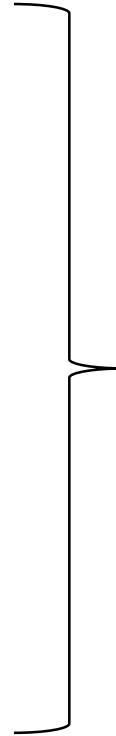


Geophysics



Finance

Government, Academia, Enterprises



Performance



Efficiency



Accessibility

Industry's most complete portfolio for HPC

Workload optimized, engineered for any demand



ProLiant BL family

Cloud-ready
Converged
Infrastructure



ProLiant DL family

Versatile, rack-
optimized servers



ProLiant SL family

Purpose-built
density-optimized
servers



HP Moonshot

The world's first
software defined
server



HP Apollo

Optimized rack-scale
computing for HPC

Reinventing HPC today to accelerate the world of tomorrow



**Accelerating
performance**
to speed up answers

4x teraflops
per square foot

**Maximizing
efficiency**
for sustainability and savings

4x density per rack
per dollar

**Unleashing
HPC**
to enterprises of any size

Years to days
for new innovations

HP Apollo family
Optimizing rack-scale computing for HPC



HP Apollo Systems Family

Optimized Compute for the Data Driven Enterprise

Apollo 8000

Supercomputing



Purpose Built liquid-cooled supercomputing
Delivering the highest level of performance and density for the most demanding workloads

Liquid Cooled

Apollo 6000

Rack Scale HPC



Purpose built rack scale HPC solutions
Delivering shared infrastructure efficiency optimized for specialized workloads

Rack Scale

SL4500

Server Solutions Purpose Built for Big Data



Purpose Built Server Storage Solutions
Delivering Industry leading density, efficiency, and price performance at Hyperscale for Big Data and Object Storage Solutions

Server Based Storage

Apollo 2000

Enterprise Bridge to Scale-Out Compute



Purpose Built Density Optimized solutions
Delivering Hyperscale efficiency and performance for traditional enterprise and SME datacenters

Traditional Datacenters

Purpose Built HPC & Big Data Compute Solutions



Thank you

