Server Memory Trends
Geof Findley - Intel

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Outline

• Diverging memory requirements across HPC, Enterprise, and Cloud
• Performance CAGR necessitating more BW
• Energy efficiency critical to deliver higher BW within power envelope
• For dense form factors, solutions require optimization across FF, Power and Cost
Rise of the Digital Service Economy

Global Standards for the Microelectronics Industry
Virtuous Cycle of Computing

... and so on

SERVICES

DATA CENTER

DEVICES

SERVICES

* Other names and brands may be claimed as the property of others.

Global Standards for the Microelectronics Industry
In the Future …

…Infrastructure will be software defined

…Systems will be workload optimized

…Analytics will be pervasive
Broad Range of Compute, Storage, and Network Workloads
Enterprise Memory Challenges

- Power
- Capacity
- Performance
- Cost
Diverging Memory Requirements

Memory Bandwidth

Technical Computing

Mission Critical

Cloud Datacenter

Enterprise

Memory Capacity

Global Standards for the Microelectronics Industry
Memory Eco-System Partnerships

Intel’s Platform Memory Operations

Partnering with >30 memory developers

Enabled Successful Launch of Evolutionary Memory Technology (DDR4)
Together We Can

Provide Memory Solutions to help the Enterprise Market in its next transition to...

Extend the benefits of the digital service economy

Improve user experiences

Drive economic growth through Cloud, Big Data and HPC

Global Standards for the Microelectronics Industry