Architecting for a New World
Designing for Cloud Workloads

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Architecting for a New World

Designing for Cloud Workloads

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Chief Architect

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Cloud Ascendant

*Cloud emerges as dominant compute paradigm*

**Source:** IDC Server Tracker 2017
New workloads, new software building blocks, new algorithms
Architecting for Cloud

- Efficiency
- Performance
- Security
- Freedom

New Optimization Point

Source: Ampere Estimates
A New Architecture: Integration

Smart Integration for Cost and Density
A New Architecture: Power Efficiency

Power Efficiency for Density ... and OpEx
A New Architecture: Memory

Capacity, Bandwidth and Latency
A New Architecture: Compute

Balanced Compute
A New Architecture: Acceleration

Workload-specific acceleration
A New Architecture: Security
A New Architecture: Open

Extensible via Open Standards
A New Architecture: Legacy Burdens

Extensible via Open Standards

Source: Ampere Estimates
A New Architecture for a New World

Unleashing the Power of Cloud Computing

Efficiency
Integration
Power Efficiency

Performance
Memory
Compute
Acceleration

Security

Freedom
Open
Legacy Burdens

Source: Ampere Estimates
Experience Next Generation Cloud and Data Centers Today

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Thank you.