Enabling high performance and parallel applications on Windows Azure

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Windows Azure World-Class By Design

- Physical Features
- Geo-Distribution
- Platform Availability and Security
- Compliance and DR

Why choose Windows Azure for your cloud needs? Here are some key reasons:

- 26 compliance certifications 24x7
- Highly available services
- Leading level of compliance
- Reduced cost of ownership and failover
- 2000+ people engineering and operations
- 2,200+ sites across infrastructure
- Clear boundaries and multiple lines of defense
HPC and Parallel Application Patterns

Embarrassingly Parallel or Scale-Out

- Parametric Sweep
- Cluster SOA
- Excel Services
- MPI

Parallel or Shared Memory
Parallel applications on Windows Azure

Cluster of Compute Nodes

1. Submit work
2. Get results
HPC Pack Makes Using Azure Easy

Client

Job Scheduling
Cluster Management

Windows HPC Server

Head Node (Physical or VM)

Windows Desktop
Windows HPC Server
Windows Azure

Windows HPC Application

Logic

Logic

Logic
Hybrid HPC Clusters

Cluster Extension

Cluster On Demand
Transparency run HPC Compute Intensive Paradigms

Run on:
- Client
- Cluster
- Cloud
See you at SC12