Cray Vendor Update

Barry Bolding VP Marketing and Business Development

We Build Computational Tools That Help Change The World





A Next Generation Supercomputer Architecture

Cray Infrastructure for Trinity



CS-Storm is a Performance Whirlwind



22 x 2U servers per 48U rack

COMPUTE

STORE |

ANALYZE

A Perfect Storm for Today's Business Needs



COMPUTE | STORE | ANALYZE

Cray CS-Storm Innovative Design

Six Local

Disk Drives



Host Intel Processors and Memory

16 DIMMS (1867MHz) 8 Channels 118 GB/sec memory BW

2x4 NVIDIA K40s 11.4TF/node

UTE

2U form factor

- 22 Nodes/rack
- 176 GPUs/rack

STORE

ANALYZE



HPC User Conference



N'd

Cray Software Environment for the CS-Storm

Cray Advanced Cluster Engine (ACE[™])

- Complete Cluster, Server, Network & Storage Management
- Cluster Partitioning
- Job Scheduler support
- Revision System with Rollback
- · Automatic network and server discovery and failover

Cray Programming Environment on CS

- Cray Compiling Environment
- C, C++, Fortran Compilers
- Cray Scientific and Math Libraries
- LibSci with GPU accelerated routines
- Cray Performance Measurement and Analysis Tools

allinea

Complete SW Ecosytem

COMPUTE



Open Source and Partner Tools

ANALYZE

NVIDIA

inte

HPC User Conference

STORE

Cray CS-Storm: Uncompromising Performance

Powerful and Efficient	 Uncompromising performance in a single-rack system Full system solution featuring Cray management and programming environment. Maximum efficiency for scalable GPU applications
Performance by Design	 Power and cooling to spare, allows GPUs to run at full power. Designed for upgradeability to protect your investment
Cray Service and Reliability	 Redundancy, data protection and serviceability Cray expertise

Т

Simply, CS-Storm was designed to be the best GPU system for the most demanding customers

COMPUTE

STORE | ANALYZE

Thank You!

C User Conference

CRAW

11)