

Sun HPC: The Road Ahead

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Grid Consortium Dec13,2006



Agenda

Footprints

Sun @ SC06

Project Blackbox



Footprints for Advancing HPC Worldwide

Arctic Region Supercomputer Center

TAGC



CERN Reference Platform
SLAC, IN2P3, DESY, ...



Tokyo Tech



UCLA Laboratory
of Neural Imaging

Mississippi State University

NCKU Taiwan
Singapore Grid Discovery Zone



ROCKS

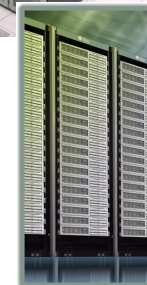
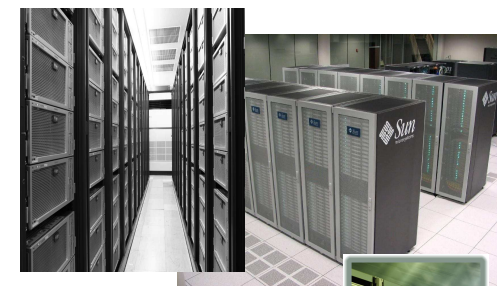


Sun @ SC06, Tampa

> TSUBAME #9 in Top500 +
<http://www.sun.com/smi/Press/sunflash/2006-11/sunflash.20061115.1.xml>

> Expanded Relationship with
NEC
<http://www.sun.com/smi/Press/sunflash/2006-11/sunflash.20061114.1.xml>

> Three new modules for the
Grid Engine Open Source
Project
<http://www.sun.com/software/gridware/modules.xml>



Highlights

Sun @ SC06, Tamna

Announcements

- > Sun HPC Quick Start S
- > SunBlade 8000 P Serv
- > Sun Ultra 40 M2 Works
- > Sun Grid Rack System Scalable Storage
- > Sun HPC ClusterTools Access Program
- > Sun Grid Compute Util Applications
- > Sun Visualization Syst HPC
- > Voltaire Switch



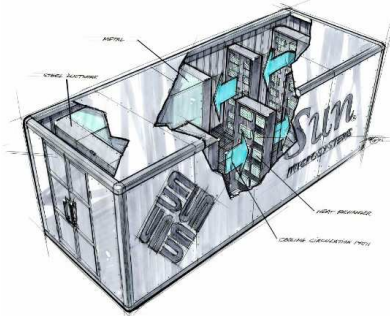
@ Sun Booth



What's Next? Every Customer Tells us

- Power Costs are Killing Me
- I'm Out of Space
- Time to Market, 3 Years?
- Performance, Performance
- I Need Flexibility – Physically, and Economically

Project Blackbox: The Virtualized Datacenter



- Standard shipping container packaged with eight standard racks
- Integrated, high-efficiency power and cooling
- Supports a wide range of compute, storage and network infrastructure – build once, deploy anywhere when fully configured

Blackbox Video

Project Blackbox: Sun Innovation at Work

- “Instant-on” and rapid deployment
- Breakthrough economics – scalability and use of standard size components
- 100% virtualized infrastructure: “Build once, deploy anywhere”
- Convenience and flexibility: “Where you want it, when you want it”

Some Scenarios



Some Scenarios



Some Scenarios



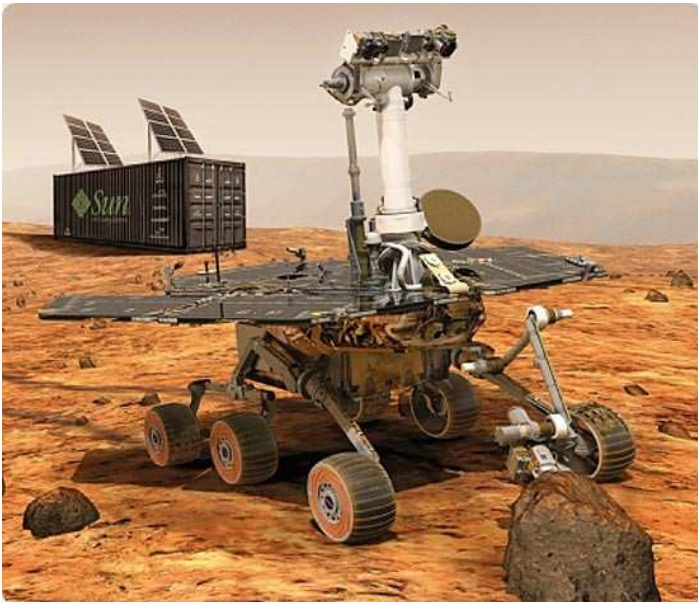
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Some Scenarios



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Some Scenarios



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Your Next HPC Cluster?

- Project Blackbox is a better alternative for quickly adding capacity
 - > Datacenter in a warehouse, where space is more abundant and/or less expensive



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Sun HPC: The Road Ahead

- From integrated HPC clusters to Project Blackbox

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