

Sun Grid Overview Utility Computing Model

EGEE Conference Pisa, Italy

October 25, 2005

John Fragalla
Business Development Manager
High Performance Computing (HPC)
Global Education and Research



"Utility" & "Grid" Definitions

Utility = a computing infrastructure that someone else owns and manages. You access this infrastructure only when you need to, pay only what for you use, and have no long-term commitment.



Grid = a specific way systems are linked in a horizontal fashion.

Sun

is offering a grid infrastructu (or grid farm) for customers to access on a pay-as-you-go basis.

(Versus a high-end, Sun Public Presentation: Non-NDA





Making Grids Simpler



http://www.sun.com/sungrid/



Sun Grid: What is it?

Access to the

0.75 Euro/cpu-hr0.75 Euro/GB-mo

- We call it: Sun Grid Compute Utility
- 10,000 cpu grid infrastructure
- Located in datacenters around globe
- Best for batch-like workloads
- Access to Grid via a Portal





Sun Grid Architecture

Architecture:

- 2 socket / 1 RU Systems, AMD Opteron[™] processors,
 4 GB RAM per Core
- Network fabric: 1 Gibabit Ethernet (node-to-node)
 - InfiniBand is on the Roadmap
- Solaris 10
- Sun Grid Engine 6
- Storage for customer's data and app

Customer Interface

Log-in Portal , Account Status Home Page

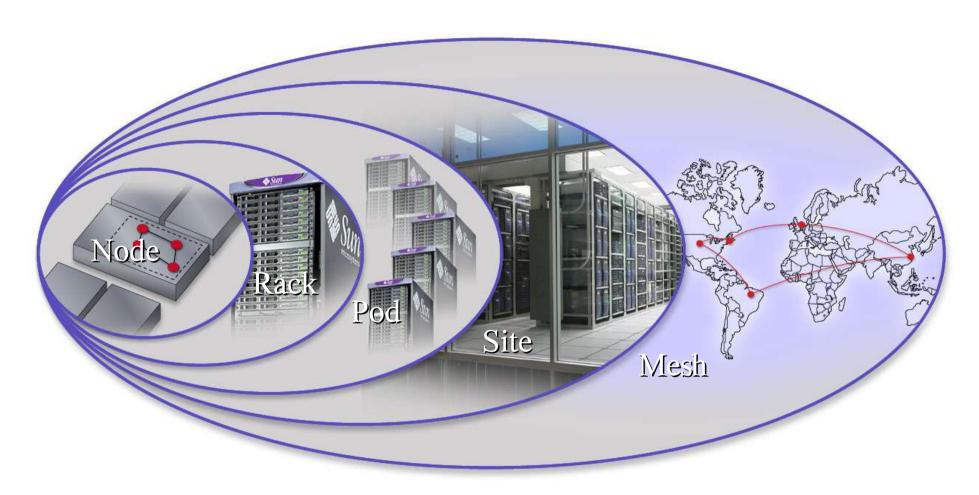
Usage Requirements:

- Build jobs for Solaris
- Application must be self contained
- Pre-paid account





Sun Grid Ecosystem



Unconstrained By:

Customer | Geography | Physical Packaging



How it works:

- Access to the Grid (2 options):
 - > 1st Come, 1st Served Model: pay only for what is used
 - Reservation Model: Access to a set of systems for a defined time period
- Provisioned with customer's image (applications and data) then scrubbed when done
 - No persistent state maintained on systems
- Systems are owned and operated by Sun
 - Data center space offered/managed by partners



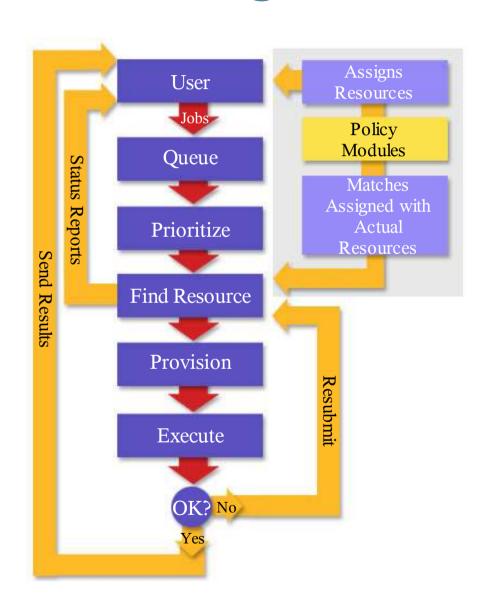
The Demo: What Are You Seeing

User Account Management

- Financials
- Storage

Real Time Queue Management

- Ensure appropriate resource available
- Provision job
- Return results
- Clean grid for next tenant





Why Sun Grid?

- No contracts: Sun does not lock in customers with long-term contracts.
- **Simple / standard**: Sun Grid offerings are simple and easy to use from anywhere with an Internet connection.
- Price transparency: Compute Utility = 0.75 Euro/cpu-hr. No hidden charges. One price for infrastructure, OS, power, management, etc.
- **High performance**: Sun Grid Centers offer state-of-the-art servers, storage, software, and networking. Access to maximum capability for your investment.
- Choice from Sun: Customers are buying into the flexibility of the Sun Utility Computing
 Continuum they can pay via consumption / actual usage (CPU time) or reserve capacity
 for exclusive use.



Compute Utility Portal



Home > Services & Solutions > Advanced Services >

Welcome to Sun Grid



Feedback | About Sun | News | Employment | Privacy | Terms of Use | Trademarks | Copyright 1994-2005 Sun Microsystems, Inc.



Sun Grid Overview Utility Computing Model

EGEE Conference Pisa, Italy

October 25, 2005

John.Fragalla@Sun.COM

Thank You