



# SUN GRID ENGINE

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Sun Grid Engine



# Sun Grid Engine

- Sun Branded Product
  - > Based on Grid Engine open source project
  - > Same source tree as open source
    - Literally
    - Except for Windows...
  - > Differs only in licensing, branding and support
    - Big difference
  - > Supported platforms:
    - Master: Solaris, Linux
    - Execution: Solaris, Linux, **Windows**, MacOS, AIX, HP-UX, Irix

# Door #1: Open Source

- Free to download (or build) and use
  - > Can make customizations or forks
- Free “support” on mailing lists
  - > Largely provided by community
  - > No response time guarantee
    - No response guarantee at all
  - > No privacy
  - > No throat to choke
- No Windows binaries
- No indemnification!

## Door #2: Sun Download Center

- Free to download and use
  - > Binaries only
  - > Windows binaries
- Fully indemnified
- Full production license
- **No support**
  - > Not even on open source lists
  - > **Limited time:** 30-day evaluation support offer
- “Extreme try and buy”

# Door #3: Licensed Product

- Licensed by CPU **socket** count
  - > 1-50, 51-250, 251-2000
  - > **Site license**
- Fully indemnified
- Fully supportable
  - > Sun Product Technical Supportteam
  - > Escalations to engineering team
- Best enterprise option
  - > Best OEM option

# How to Choose

- Support and/or indemnification important?
  - > Licensed product
- Exploring your options?
  - > SDLC
- Want to customize?
  - > Open source
- Want to run on unsupported platforms?
  - > Open source
- Want unsupported features?
  - > Open source

# Product Support

- Dedicated technical support team
- 8x5 and 24x7 support
  - > Guaranteed response time
  - > Assigned support engineer
  - > Escalations to engineering team
- Accountability for problems
  - > Accelerated updates
  - > Relief patches

# Professional Services

- HPC field specialist team
  - > Not just Sun Grid Engine
- Custom onsite engagements
- Working on new program
  - > Installation support
  - > Configuration support
  - > Performance tuning
  - > Etc.



# Training

- Web-based introductory class
  - > ~5 hours
- Instructor-led “advanced” class
  - > Really more beginner/intermediate
  - > 5 days
- Onsite classes
  - > Intermediate administration
  - > Advanced administration => official class
  - > Developer/DRMAA
  - > Custom content

# Partners

- Univa
  - > Sun Grid Engine OEM
    - Leverage Sun's product support
  - > Full cluster suite
    - Sun Grid Engine
    - Rocks
    - Ganglia
    - Globus tools
    - Etc.
  - > Integrated
  - > Supported

# Sun Grid Engine on Solaris

- Performance and stability
  - > Multi-threaded qmaster
  - > Scalability
- Solaris Zones
  - > Job isolation
  - > Adaptable environment
- DTrace
  - > Deep bottleneck and problem analysis
- QFS
  - > Highly scalable shared file system



# Sun Grid Engine News

- TITech SUBAME cluster
  - > #14 on June '07 top 500 list
- TACC cluster
  - > Soon-to-be #1 on top 500 list
- Univa Globus Cluster Edition
- DRMAA 1.0 in **final** stage of standardization
  - > Customer demand

# Talk to Me

- Licensing model
  - > Sockets? Nodes? Cores?
- Support offerings
- Services
- Training



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