



Open Science Grid

OSG Software

Tim Cartwright

Software Goals

Mission: Minimize effort needed to manage the software that underlies DHTC (esp. OSG)

- Build, package, and distribute software
- Maintain some software tools
- Support software installations
- Contribute to documentation

Software Team

- Tim Cartwright (Area Coordinator)
- Mátyás “Mat” Selmecsi
Carl Edquist
Brian Lin
Suchandra Thapa
- Neha Sharma
Igor Sfiligoi (+ UCSD team)
Xin Zhao
- Marco Mambelli (Production)

Software Status

- **OSG Software 3.1**

- All RPMs via yum, EL5 and EL6, 32- and 64-bit
- Depend on many packages in OS and EPEL
- 65+ sites have upgraded (at least) the CE
- Focus of all new development

- **OSG Software 1.2**

- Original Pacman-based distribution
- Planned End-Of-Life on 31 May 2013

Software Priorities

- **Support SHA-2 signed certificates**
(mostly done; must fix VOMS clients and run tests with DigiCert SHA-2 cert)
- **Migrate from Oracle JDK 6 to OpenJDK 7**
(in progress, going well so far)
- **Client installations anywhere by anyone**
(in progress, going well so far)
- **HTCondor-CE**
(packaging not started yet, but soon)
- **SLURM support**
(in progress, doing scalability testing)

Software Future

- Routine updates, new packages, support
- Be more involved in packaging communities
 - Push software patches upstream
 - Push whole packages into EPEL or even OS
- Improve install and configuration processes
- Expand and improve automated testing



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OSG Education

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OSG User School

Goal: Learn to use DHTC – locally or in OSG – to do and ultimately *transform* research

- Describe basic parts of a DHTC system
- Use basic tools to run jobs & manage data
- Select tools & methods to solve real issues
- Broader DHTC context: history, state, future
- Where to go for support, further study, etc.

2013 OSG User School

- June 24–27 in Madison, Wisconsin
+ XSEDE13, July 22-25, San Diego, California
- Primarily seeking:
 - Graduate students at U.S. institutions
 - In any domain field (STEMM + others!)
 - With large-scale computations, now or planned
- Expenses paid (some without travel)
- Applications due Friday, 29 March 2013

Contact Us

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- **2013 OSG User School**
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Questions?