

OSG Support for Atlas T3's

Dan Fraser, OSG T3 Liason

Marco Mambelli, OSG Sites Coordinator

Tanya Levshina, OSG Storage

Atlas T3 Meeting

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Open Science Grid



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OSG as a Resource Provider

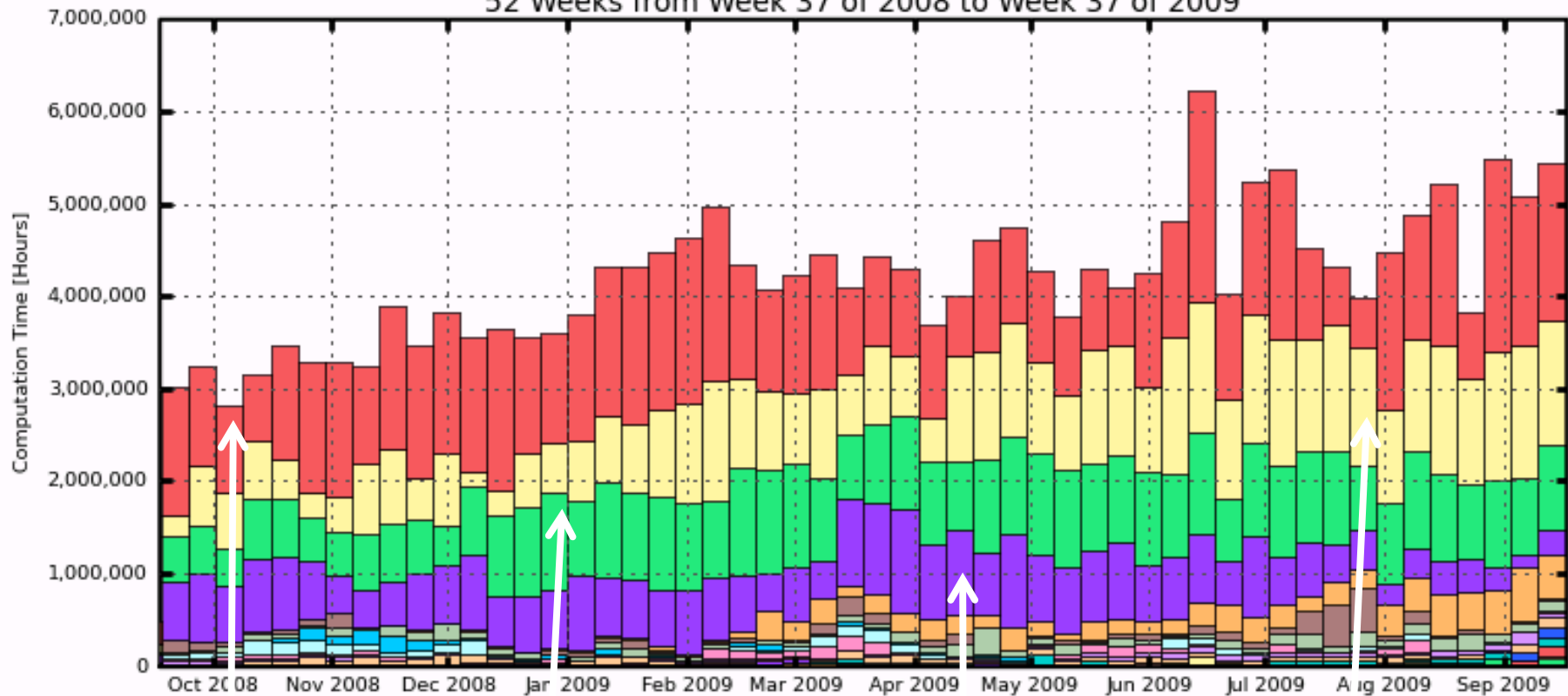
- OSG provides high-throughput computing across the United States.
 - For 16-Sep-2009:
 - ~160,000 jobs for nearly 640,000 hours
 - Used ~75 sites
 - Jobs by ~35 different virtual organizations



Recent OSG Activity

Hours Spent on Jobs By VO

52 Weeks from Week 37 of 2008 to Week 37 of 2009



CMS

CDF

DZero

ATLAS



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But how does OSG help T3s?

- Support for Atlas T3 Liasons (Doug, Rik, ..)
- Support for T3 Admins
- Support for the Atlas Physics Community
- Support for LHC and broader science

OSG support for T3 Liasons

- Documentation for OSG Software Installation
 - Doug, Rik, building and adding T3 specifics
- Regular calls to discuss support needs
 - Interaction with CMS T3 groups
- Specialized support for Condor, VDT, XROOTD,
 - Help with configurations, building kickstart files,

OSG Help for T3 Admins

- OSG Office hours (Experts Available)
 - Weekly Campfire Chats
 - Tue, Wed, Fri – 11am – 2pm Central
 - <https://twiki.grid.iu.edu/bin/view/SiteCoordination/ChatCalendar>
 - Tackle Site specific problems
- Bi-weekly Site Support calls
- OSG Workshops
- OSG support mailing lists
(osg-int@opensciencegrid.org)

OSG Support for Atlas (Partial list)

- Resource Provider for Physics
- VDT Configuration, testing, distribution
- Documentation, Software Support
- Grid Operations Center
 - Site Monitoring
 - Ticketing
- Production monitoring/problem solving
- Working with the larger Grid community
- WLCG, LHC interaction



The Virtual Data Toolkit

- Part 1: VDT
 - Grid-agnostic software (not OSG-specific)
 - Used by several grids (each grid uses a subset)
- Part 2: OSG-specific configuration
 - Set of accepted VOMS servers
 - OSG-default configurations
 - ...

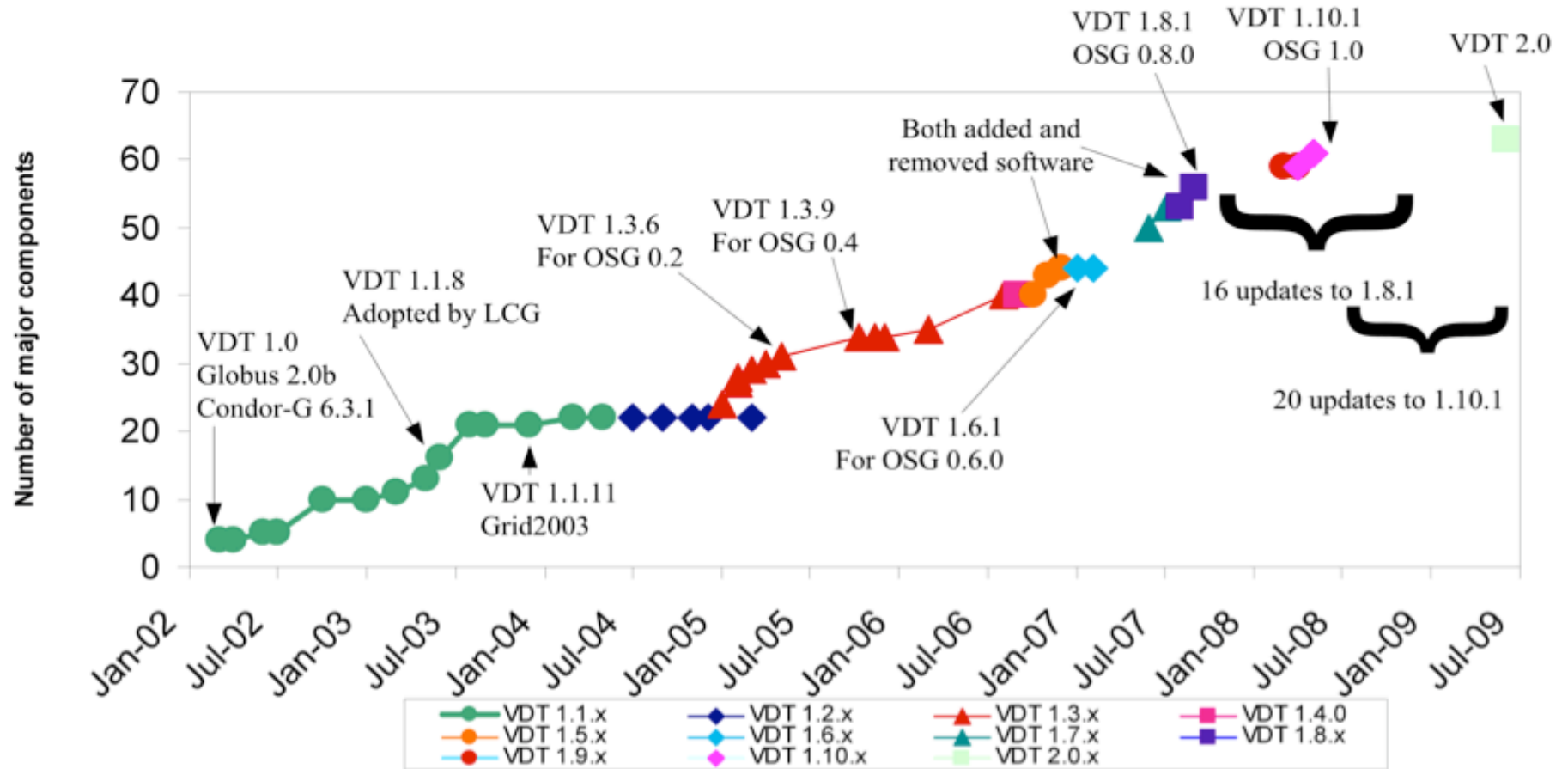
All software is contributed
OSG does not write software



Software in the VDT

- Job management
 - Condor, Globus, OSG Matchmaker...
- Storage management
 - dCache, Bestman, Xrootd...
- Security
 - VOMS, GUMS...
- Support software
 - MySQL, Apache, Tomcat...
- And lots more!

VDT Software Growth



XROOTD Addition to VDT

- Package Xrootd, Xrootdfs, gridftp-xrootd
- Certified new releases for Xrootd
 - Maintain Bestman Gateway – Xrootd test stand
 - Run certification tests across the system
 - Copy, remove, create, dir list, ...
 - Handle Static space tokens
- Documentation, Tutorials, Help w/Users



OSG Contacts

- fraser@anl.gov
- marco@hep.uchicago.edu
- tlevshin@fnal.gov



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