



Production / Campus Infrastructures

Jan 23, 2012

Dan Fraser

Current Production Focus

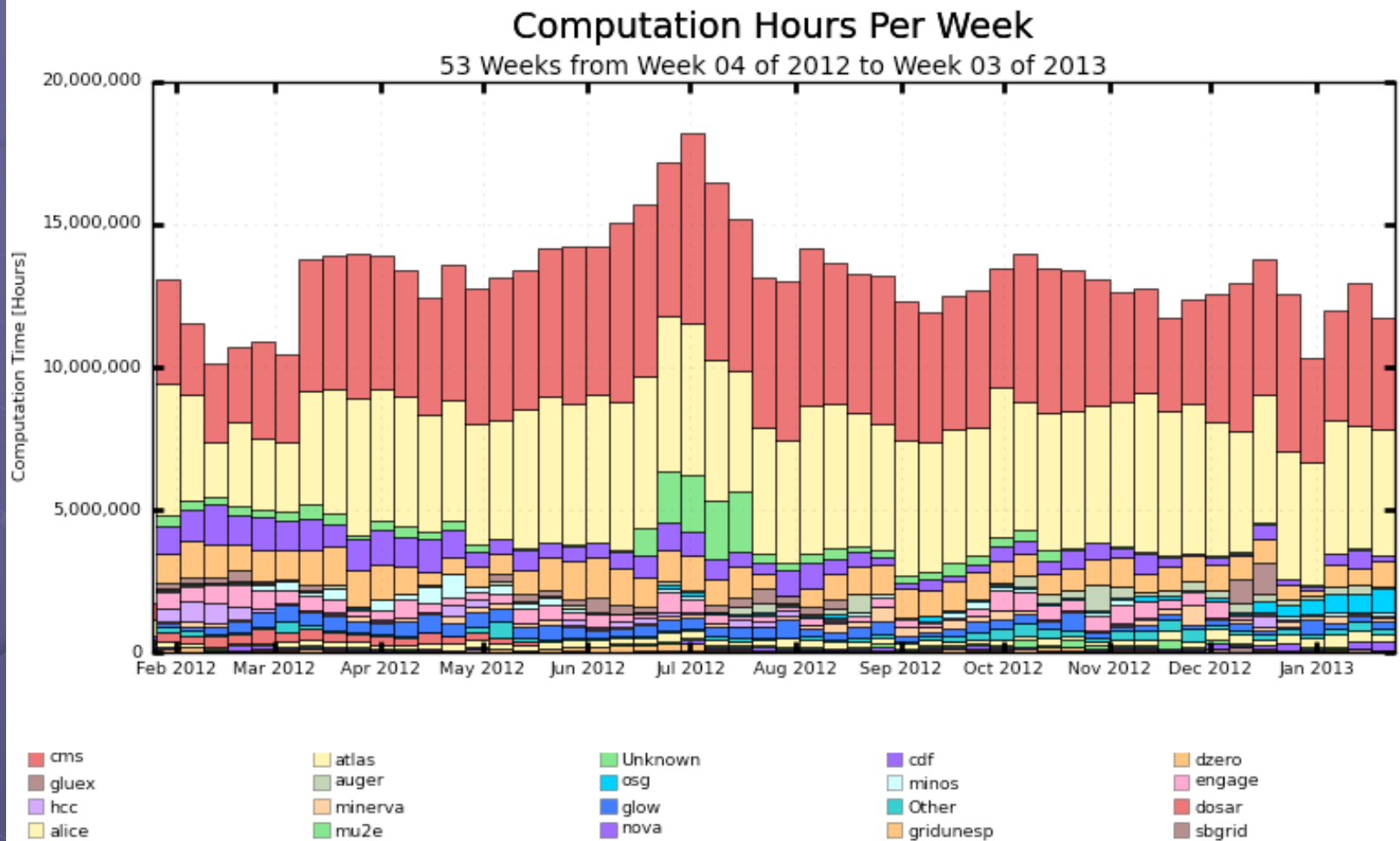
● Transition to RPMs

- 63(52) sites using RPM based installs
- 39(49) sites still using Pacman install
- Minor RPM work in process
 - Adding new packages (Squid)
- Ongoing maintenance for RPMs
 - Fetch CRL
 - Java SDK 1.6 entering EOL
 - No more Blocker Bugs

● Focus now is on EOL for PACMAN

- Will likely require a Client tarball for non-root installs

Overall Production



Some Production Issues...

- Effort from the entire team
 - Java SDK 1.6 entering EOL
 - Root vulnerabilities in Condor
 - Procedure for handling CA releases w/o manual intervention
 - Critical bug in certain Condor configurations
 - GRAM-5 production issues settling down (memory leaks, scaling, etc.)
 - GUMS-Voms compatibility with CERN (progress ongoing)
 - ...

Production Challenges

- EOL for PACMAN
- New monitoring tools suitable for a glide-in based system.
 - Started to work with Ashu to define and visualize new tools.
 - Need to kick the tires

Campus Grid Status

● Campus grid working in production:

- Glow, Diagrid (All Condor campus grids)
- Nebraska
- University of Florida (not used much)
- UC3 (testing the latest Campus Grid Release)

● Pre-Production/testing:

- RENCI
- Virginia Tech (Bio-tech)

● http://gratiaweb.grid.iu.edu/gratia/xml/glidein_hours_bar_smry?probe=condor:dhcpseven237.bioinformatics.vt.edu

- Virginia Tech (Belle, DayaBay)
- FIU

Not the whole story

- The existing campus grids use Bosco (and its predecessor) more as middleware than a tool for end users.
- Currently focusing the team more on end users...
 - Usability
 - Bug Fixes
 - Plans for a marketing video to help describe what Bosco does
 - No new features
- Addition of Miha Ahronovitz is very helpful
 - Product Manager
 - Conducting User Interviews & Blogs

Launching the Campus Infrastructure Center

- Center where researchers can learn about and adopt campus technologies.
 - Led by Rob Gardner
- First meeting held in November
 - UC Santa Cruz
- First few monthly meetings held on specific Campus related topics
 - Attendance was good
- Planning for AHM in March

Campus Grids Project Plan

● <https://twiki.grid.iu.edu/bin/view/CampusGrids/CampusInfrastructureProjectPlan>

- Now released Bosco v1.1.1
- Fixing some important bugs prior to inviting Condor user list to try Bosco
- Working on Bosco v1.1.2
- Features needed for v1.2:
 - Accounting (integrated probe)
 - Plan is currently circulating

Campus Grid Issues

- Emerging concern is that Bosco, while making it easier to submit HTC jobs, does not yet meet the needs of the end users.
 - May require integration with a tool (e.g. Matlab, Galaxy)
 - This conclusion is in part due to Miha's efforts so far in user interviews.