

IT Cluster Summary

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JRA1 All-Hands

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- **WMS and UI**
- **CREAM**
- **DGAS**
- **BLAH**
- **VOMS**
- **Authorization**

- **Short term target is to have the WMS available in production on SLC4**
- **The (pre-) certification started with a version similar to the one now in production on SLC3**
 - from the 3.1 branch
 - gridftp from VDT in place of our own patched version
- **Problems during testing at Imperial College and CERN**
 - mainly due to timeouts querying the BDII
 - not seen (or not so evident) on SLC3
 - with 2 GB of RAM, caused overall system slowdown
- **Configuration tweaking mitigates the problems**

- **Another development round**
 - asynchronous LDAP purchasing
 - configurable VO-specific filter for BDII querying to reduce the ISM
 - anticipate some cleanup to save resources
 - improve the WM start-up (with recovery) and shutdown
 - use JobDir as WM input format
 - support for Short Deadline Jobs and new approach for MPI jobs
 - progress on ARC interoperability
 - fixed security hole related to a missing check on the host cert
 - improved failover mechanism on the UI and support for DNS alias
- **Waiting for the ETICS build...**
- **4 GB of RAM as WMS requirement**

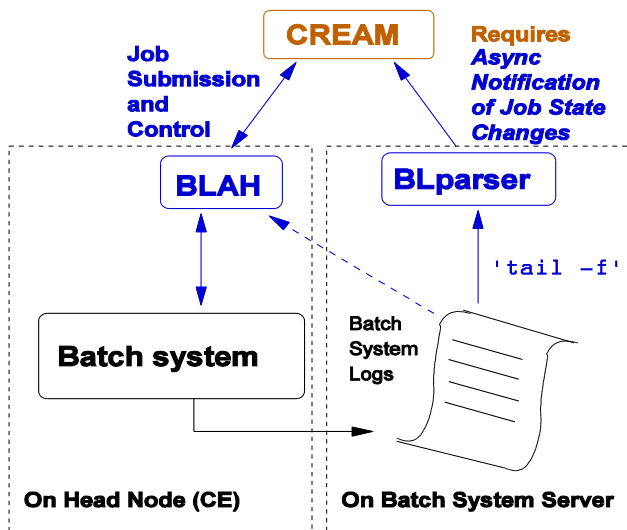
- **Deep restructuring in HEAD on-going**
 - manager largely rewritten
 - move to JobDir everywhere
 - waiting for the review of the persistency mechanisms
 - simplify organization of components (MM, WMPProxy, UI, ...)
 - try to workaround the inefficiencies (space and time) of ClassAds
 - Python API to LB WS for job status
 - JSDL 1.0 Job Registration
 - Support for Delegation 2
 - automatic proxy delegation optimisation
 - still some compilation issues with new gridsite
 - logging recommendations not yet applied

- **Last summer CREAM successfully passed the “CE acceptance tests”**
 - submission via ICE
 - the TCG decided to increase the effort to make CREAM production-ready
- **Some issues about performance and scalability**
 - e.g. proxy renewal
- **Major changes to address these problems**
 - took more than expected, but being finalized
 - certification can then start
- **More details in Massimo's presentation**

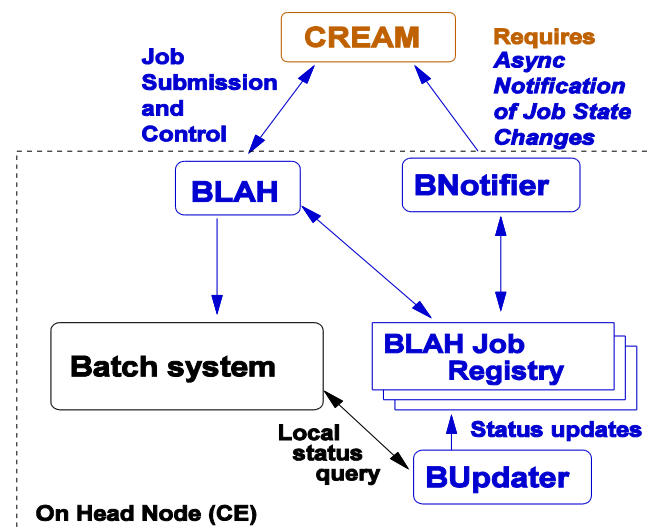
- **INFN certification of v. 3.1.12 (ETICS-built) will start soon**
 - mainly bug fixes, minor improvements
- **But DGAS will not be part of JRA1 in EGEE-III**
 - best-effort maintenance in SA1
- **Major restructuring is advisable in order to make the software more maintainable**
 - reduce complexity and functionality to the minimum
 - refine the regression test suite
 - simplify management and configuration
 - improve the database structure
- **INFN certification of new version planned for the beginning of the summer**

- Scripts were restructured for easier porting and improved efficiency
 - porting notes at http://egee-jra1-wm.mi.infn.it/egee-jra1-wm/blah_porting_notes.txt
- Support for Condor as a batch system was extended to cater to the async job status change notification requirement for CREAM:

Current config options:



Additional option being worked on:



- **Support for the BLAH job registry is being added for LSF and PBS as well**
 - quicker response to status queries
 - no need to install components outside of CE or with higher privilege than the user running BLAH
- **Scripts to perform performance and regression testing are being developed**
- **BLAH keeps being distributed as part of Condor as well**
 - changes need to be coordinated with Condor people

- **Release 1.8 under certification**
 - phase 1 of the GT independence plan
 - rewrite of the DB access code
 - bug fixes
- **Changes planned in the short term**
 - system and regression test suite
- **Setup of a replica procedure also for Oracle-based VOMSes**

- **Version 2.0.8 in production**
 - (almost) full rewrite of VOMS-Admin 1.2.x
 - migration from version 1.2 went well
 - only some configuration mishap
- **Version 2.5 foreseen before the end of the project**
 - implementation of JSPG requirement
 - support for multiple user certificates

- **INFN participates to the joint effort to think and implement a coherent authorization framework**
 - implications on all the IT components