



HEPiX Spring 2013 CNAF Bologna / Italy

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Grid Deployment Board 12-Jun-2013

HEPiX – www.hepix.org

- Global organisation of service managers and support staff providing computing services for HEP community
- WLCG Tier-0, Tier-1s, some Tier-2s regularly attend
 - More sites very welcome – subscribe to hepix-users
- Workshops of one week twice per year
- Exchange of experience, reports on recent work, work in progress, future plans
 - Usually no showing-off

HEPiX Spring 2013

- April 15 – 19 at CNAF, INFN, Bologna (IT)
 - Very well organised, rich programme
 - Coincided with 50th anniversary of CNAF
- 83 registered participants
 - Europe: 69, North America: 8, Asia: 5, Australia: 1
 - Administrative hurdles and illnesses prevented even better participation
- 70 presentations from 40 institutes
 - 3 BoF sessions (OpenAFS/IPv6, CMDBuild, Energy efficiency)
 - Many discussions after talks and off-line
- Programme and complete slides:
<http://indico.cern.ch/event/hepixon-spring2013>



Tracks and Trends

- Computing (5 talks); networking and security (7 talks); IT infrastructure (21 talks); grids, clouds, virtualisation (5 talks); storage and file systems (10 talks); 17 site reports
- Batch system reviews everywhere
 - Univa GridEngine seems to take the lead
 - WNs with HT
- Broad use of cloud services & virtualisation
 - Private clouds almost everywhere (mostly Openstack)
 - Idle VM detection (FNAL), EC2 spot pricing (BNL)
- Puppet taking the lead for configuration management
 - But: no monoculture expected
- Interest in Ceph for VM storage
 - At an early stage everywhere
- Federations: identity, federated clouds etc.
- Long-term data preservation
- Non-x86 platforms

HEPiX Working Groups (1)

- IPv6
 - IPv4 address shortage becoming a serious issue soon (including at CERN!)
 - Support for IPv6-only worker nodes needed by 2014 (or soon after)
 - Distributed testbed has been set up, more and more sites joining, constant testing (file transfer)
 - All LHC experiments participate in WG as well
 - Tools & Software Survey, “problematic” applications identified
 - All batch schedulers, OpenAFS, ActiveMQ, ...
 - Base platform for testing is SL5
 - 2013 goals: increase participation, agree on dual-stack services, test them

HEPiX Working Groups (2)

- Storage
 - WG terminated
 - Summary report at next meeting in autumn
- Benchmarking
 - No new SPEC benchmark
 - Starting to re-evaluate (dis-)agreement between applications and benchmark (used for purchases)
- Configuration Management
 - New WG led by Ben Jones (CERN) and Yves Kemp (DESY)
- Batch schedulers
 - Not a formal working group, but rather a collection of material on the Web

OpenAFS/IPv6 BoF Session

- Many sites regard AFS as one of their core services, value its robustness and plan to continue using it in the future
- Various options to deal with the IPv6 situation were discussed, but the lack of IPv6 support is not regarded as a burning issue (at least right now)
- The need to gather more information was identified (use cases, traffic maps, prices for an implementation, ...) to take an informed decision (before or at next HEPiX)
- Peter van der Reest (DESY) and Arne Wiebalck (CERN) to follow up

Next HEPiX meetings

- Fall 2013: U Michigan, Ann Arbor, MI, USA
 - October 28 – November 1
- Spring 2014: LAPP Annecy, France
 - May 19 – 23
- Fall 2014: Following up on various ideas, no firm decision yet

Proposals are always welcome...

Final Words

Hope to see many of you in Ann Arbor (28-Oct to 01-Nov)

