



HEPiX Spring 2015 Oxford University, UK Workshop Wrap-Up

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Attendees

- 134 registered participants
 - Probably the record - can somebody confirm?
 - Including many first-timers!
 - 101 from Europe (including 36 from UK), 10 from North America, 6 from Asia, 19 from companies
- 45 different affiliations
 - 30 from Europe (including 8 from UK), 5 from North America, 2 from Asia, 8 companies



Presentations

- 83 contributions
 - Scheduled total duration: 30 hours 25 minutes
 - Rich, very interesting, heavy program
 - Had to cut down all standard slots to 25 minutes, site reports to 15 minutes, still needed speakers finishing early in order to fit everything in
 - Speakers played this very well, excellent time-keeping - thanks to speakers and session chairs
 - High quality of presentations
- IPv6 tutorial
- BoF session: Ask the CEPH experts

Tracks and Trends... (1)

- Security and networking: 9 total
 - *Threats continue to evolve*
 - *Preventing security incidents more important than ever*
 - *Appropriate monitoring and traceability vital for handling incidents*
 - *TCP performance on high-speed wide-area links*
 - *Lots of activity moving towards production dual-stack (IPv6/IPv4) storage services for WLCG*
 - *IPv6 Tutorial popular (~45 people)*
- Storage and file systems: 8 total
 - *CEPH as an interesting building block of many newer services; CEPH FS*
 - *CEPH BoF session with experts much appreciated*
 - *Data taking for photon science*
 - *Care of long term storage by intensive monitoring tape environment*
 - *Things are not simplifying, storage remains a hot topic for all in IT*

Tracks and Trends... (2)

- Grids/clouds: 8 total
 - *Clouds increasingly used for workloads*
 - *Public clouds used in production*
 - *Containers: Docker*
 - *Looking beyond PaaS*
- Computing: 17 total, 9 on batch systems
 - *CPU benchmarking - new SPECcpu, fast benchmark*
 - *Alternative CPU architectures: SoC (ARM, Atom), OpenPower*
 - *Tendency away from PBS family, OSS very popular (in particular Condor)*
 - *UGE okay, other GE variants disappearing*
- IT facilities and business continuity: 2 total
 - *Murphy's law confirmed*
 - *How to protect tapes*

Tracks and Trends... (3)

- Basic IT services: 7 total
 - *ElasticSearch, Logstash, Kibana; integrating audio and visual tools*
 - *Puppet, Mcollective maturing (scalability, automation, etc), linked with continuous integration (Jenkins)*
 - *Quattor alive and doing well*
 - *VoIP on the rise everywhere, unified communication (Lync)*
- End-user IT services and operating systems: 10 total
 - *Scientific Linux and CentOS status*
 - *HEP Software Foundation*
 - *SciDB and farm usage efficiency tips*
 - *social and interactive - conferencing services, search and social for the web, Zimbra email, software collaboration*
 - *volunteer computing*
- Site reports - 19 total
 - *OpenStack; GPFS; Graphite/Grafana; Webdav*

... and a special session



... and a special session



Breaks

- Fire alarm...
- Coffee breaks
- Lunches
- Dinner, evening discussions
 - Welcome reception
 - Social event

Countless hours of valuable discussion

Board Meeting (1)

- Current and next meetings
- Working groups
 - IPv6: in full swing, participation by ALL major sites required (in particular WLCG Tier-1s)
 - Benchmarking: No immediate issue with HS06, in standby for next SPECcpu; short benchmark
 - Batch: Rich session here, collaboration with WLCG pre-GDB
 - Configuration management: moving into moderator mode (like batch)
 - Bit preservation: not much going on now, but work on the horizon

Board Meeting (2)

- Web site: Board agreed to accept offer by DESY HH to host
 - Thanks to Peter van der Reest and colleagues
 - All HEPiX contributors who need an account can get it
 - Old site at FNAL (Plone) to be switched off by August at the latest
 - Maintenance on rotational basis
 - Board members and track conveners have all (been) volunteered - more volunteers welcome
- DNS: LAL Orsay becoming owner of hepix.org
 - Thanks to Michel Jouvin and colleagues
- Mailing lists to be moved to DESY as well
- Wikis to be considered in due time

Next meetings

- Fall 2015: Brookhaven National Lab, Upton (NY), USA
 - 12 - 16 October 2015
 - Same tracks as this time
 - Grids, clouds, virtualisation track to be held jointly with WLCG Grid Deployment Board
 - First public announcement in May
- Spring 2016: DESY Zeuthen, DE
 - 18 - 22 April 2016
- Proposals received for subsequent meetings
- May need to swap European/N-American meeting every now and then

Expressions of interest and proposals are always welcome

Thanks

- ... to all participants
- ... to all speakers
 - ... for their contribution and for having accepted constraints
- ... to the track convenors and chairs
 - ... for having solicited contributions, and having kept things well within schedule

Special thanks

- Viglen and Boston
- Western Digital
- DataDirect Networks
- Amazon Web Services

Without their support and their participation, many things would not have been possible



Special thanks (cont'd)

Local organising committee:

- Peter Gronbech
- Sue Geddes
- Ewan MacMahon
- Sean Brisbane
- Kashif Mohammad

Local organisers (cont'd):

- Greg Agacinski
- Stig Topp-Jorgensen
- Duncan Vivian
- Stephen Lee

Final Words

Have a good trip back...

... and ...

The logo consists of the word "HEPIX" in white, bold, sans-serif font. The letters "HEPI" are positioned on a dark blue rectangular background, while the letter "X" is on an orange rectangular background. The two rectangles overlap slightly.

HEPIX

[More Information](#)

See you at the next meeting in
Brookhaven National Laboratory

Upton, NY, U.S.A.

October 12-16, 2015

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