

HEPiX File System Working Group

Michel Jouvin

LAL/Orsay

jouvin@lal.in2p3.fr

GDB, Prague

April 4th, 2007



- IHEPCCC decided 2 years ago to ask HEPiX about technology review
 - HEPiX is a 15 years old forum of “sys admins” in HEP
 - On each topic, a working group is set up with a short/medium term mandate
- Last autumn, IHEPCCC asked HEPiX to give a status report about distributed file systems
 - 6 months mandate
 - What next after AFS ?



- Understand how storage is accessed and used. Classify storage solutions in function of typology of applications that make use of the data areas
 - Home dirs, SW areas, data analysis, archival...
 - Get input from sites outside HEP
- Define specific requirements for each of the storage classes
 - Size, redundancy, distribution, access from grid, scalability
 - Representative benchmarks for each storage class
- Review existing solutions
 - Identify price, performances, use cases...
 - Evaluate the most interesting ones
- Asked for an extended mandate : till spring 2008
 - Intermediate reports at HEPiX spring 2007 and fall 2007

- Andrei Maslennikov (CASPUR) - Chair
- Andrew Daviel (TRIUMF)
- Bernd Panzer (CERN)
- Cary Whitney (NERSC)
- Douglas L Thain (University of Notre Dame)
- Evan Rempel (University of Victoria)
- Greig A Cowan (University of Edinburgh)
- Hartmut Reuter (Rechenzentrum Garching)
- Jacques-Charles Lafoucriere (CEA)
- Jos van Wezel (FZK)
- Loic Tortay (CC-IN2P3)
- Martin Gasthuber (DESY)
- Michel Jouvin (LAL)
- Mirco Corosu (INFN)
- Monica Calori (CASPUR) - Group's Web Master
- Peter van der Reest (DESY)
- Robert Petkus (BNL)
- Stephanie Meier (FZK)
- Vladimir Sapunenko (CNAF)



- First milestone is a questionnaire reviewing existing storage solutions
 - Mainly focused at T1-like centers
 - Input from non HEP site : CEA France (LUSTRE/Infiniband), Livermore
 - No need to have a unique storage solutions : seeking current use cases, solutions and performance figures
- This is very important each T1 (and other sites with significant experience) fulfills the questionnaire
 - <http://hepix.caspar.it/storage/questionnaire1.php>
 - User/Pwd = hepix/hepix
 - An email already sent by John in March
- Let us know if you want to attend WG meetings regularly
 - Mainly by audio/video conference

