The DESY Grid Infrastructure & The National Analysis Facility (NAF).

Poster Session of the POF Evaluation 26/27.2.2009
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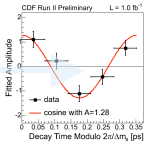
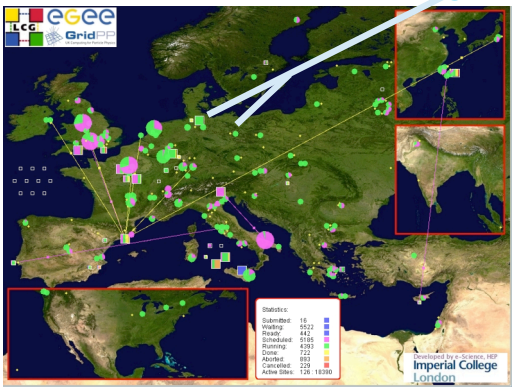
HEP Computing and Analysis: → Access to Data!



Grid Paradigm: Distributed CPU and Storage



The DESY Grid Infrastructure

- In operation since 2004
- **ONE** generic infrastructure for **ALL** VOs
  - DESY: H1, Zeus
  - LHC: Atlas, CMS, LHCb
  - Other HEP: ILC, Calice, ILDG
  - Other: IceCube, Photon Science
- Two sites: Hamburg and Zeuthen
- Storage (dCache SE), Computing
- Backbone infrastructure:
  - LFC and Amga Catalogue
  - VOMS server
  - WMS services

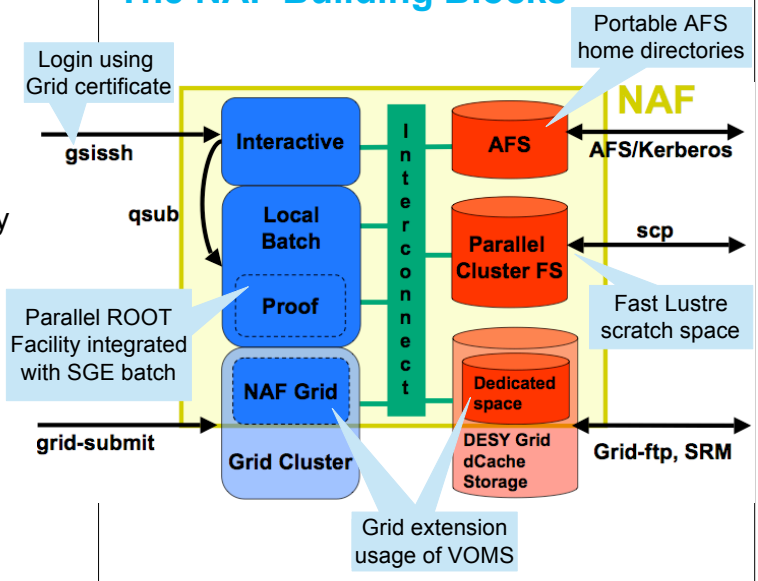
- Participation in the EGEE PPS
- Founding member of D-GRID
- WLCG Tier-2 MoU
- ILC/Calice Tier0/Tier1

- ~2600 job slots, ~1 PB dCache SE

National Analysis Facility (NAF) @ DESY

- Framework of the Helmholtz Alliance „Physics at the TeraScale“
- Provide members of German institutes with generic multi-purpose analysis facility
  - Atlas, CMS, LHCb and ILC current users
- Built, hosted and operated by DESY (Hamburg and Zeuthen)
- complementary access to storage
- tightly coupled to existing storage
  - e.g. Tier-2 dCache share which hosts analysis data
- Extension of existing Grid infrastructure
- Additional interactive resources
  - ~800 cores & 64 TB Lustre file system
- Support and documentation
  - In close collaboration with experiments
- Generic approach, open for others

The NAF Building Blocks



DESY-Grid & NAF: Further Documentation

http://grid.desy.de/
http://naf.desy.de/