

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



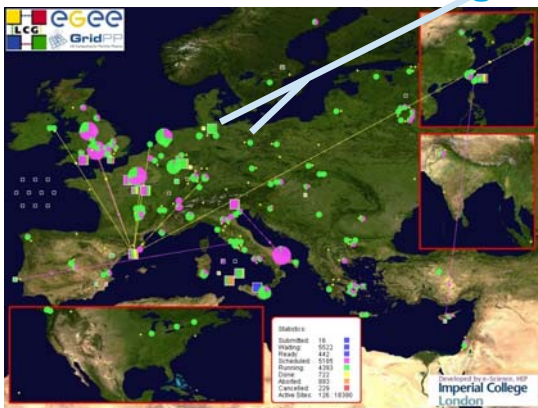
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HEP Computing and Analysis: → Access to Data!



Grid Paradigm: Distributed CPU and Storage



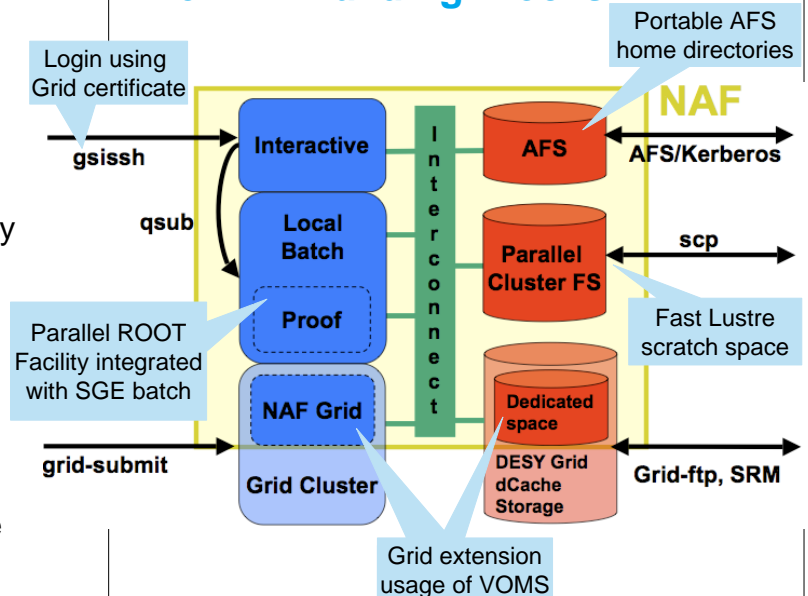
The DESY Grid Infrastructure

- 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
 - 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/>



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