

The National Analysis Facility (NAF) at DESY

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What is the NAF?

An analysis cluster with interactive access to LHC data to offer best possible infrastructure to physicists from German institutes

Why a NAF?

- The Grid is perfectly suitable for long running jobs like simulation or reprocessing
- Short running analysis jobs suffer from overhead
- An interactive analysis cluster is needed which is complementary to the Grid

Why at DESY?

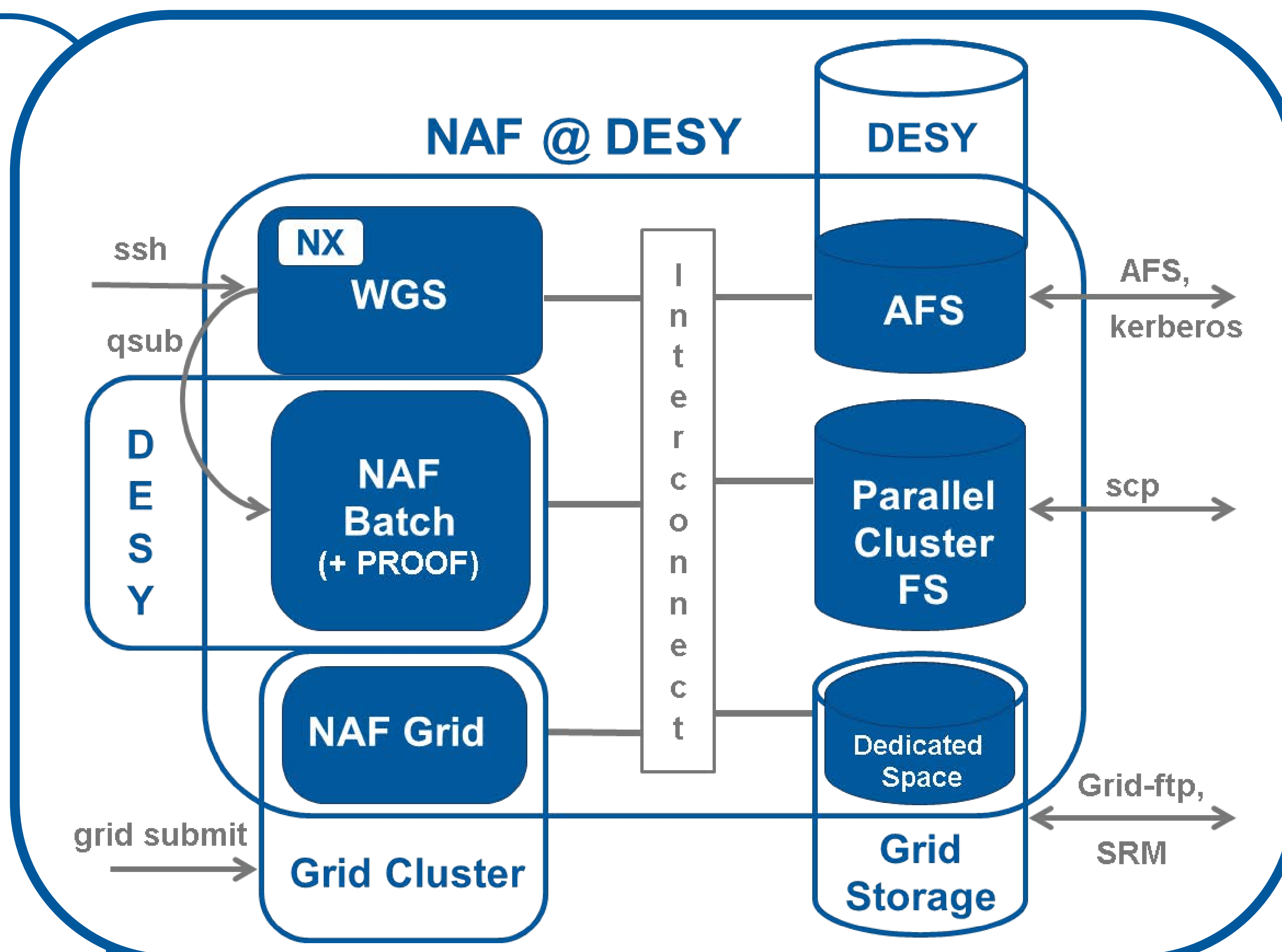
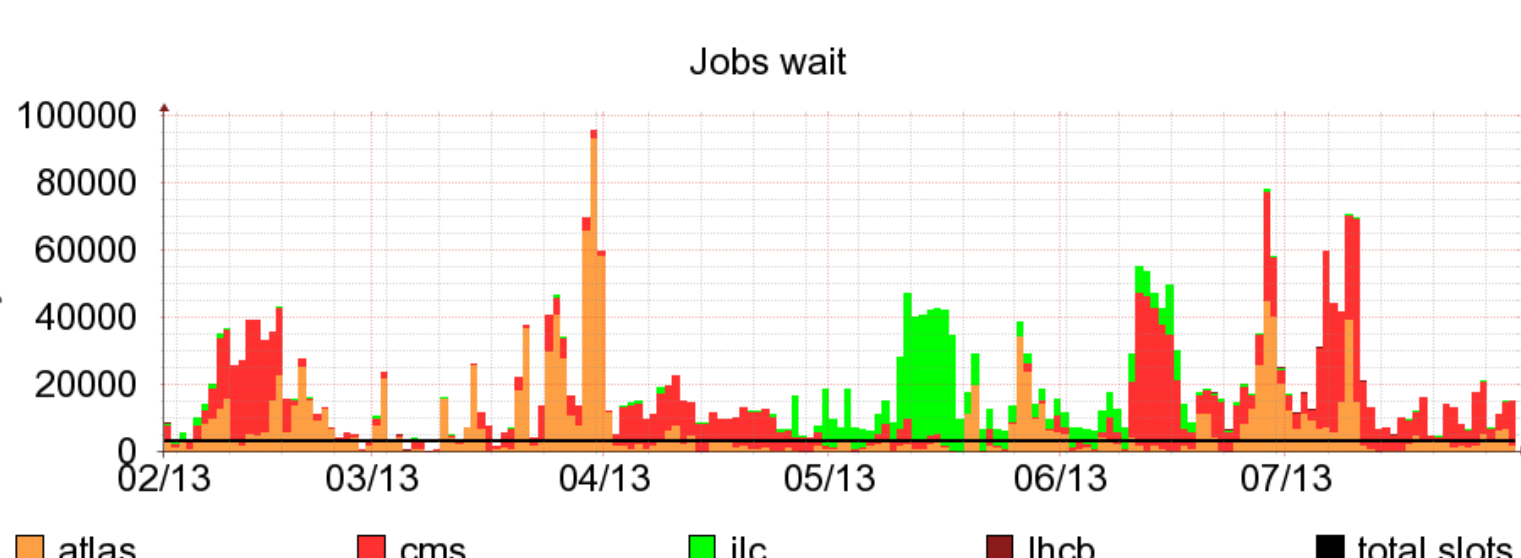
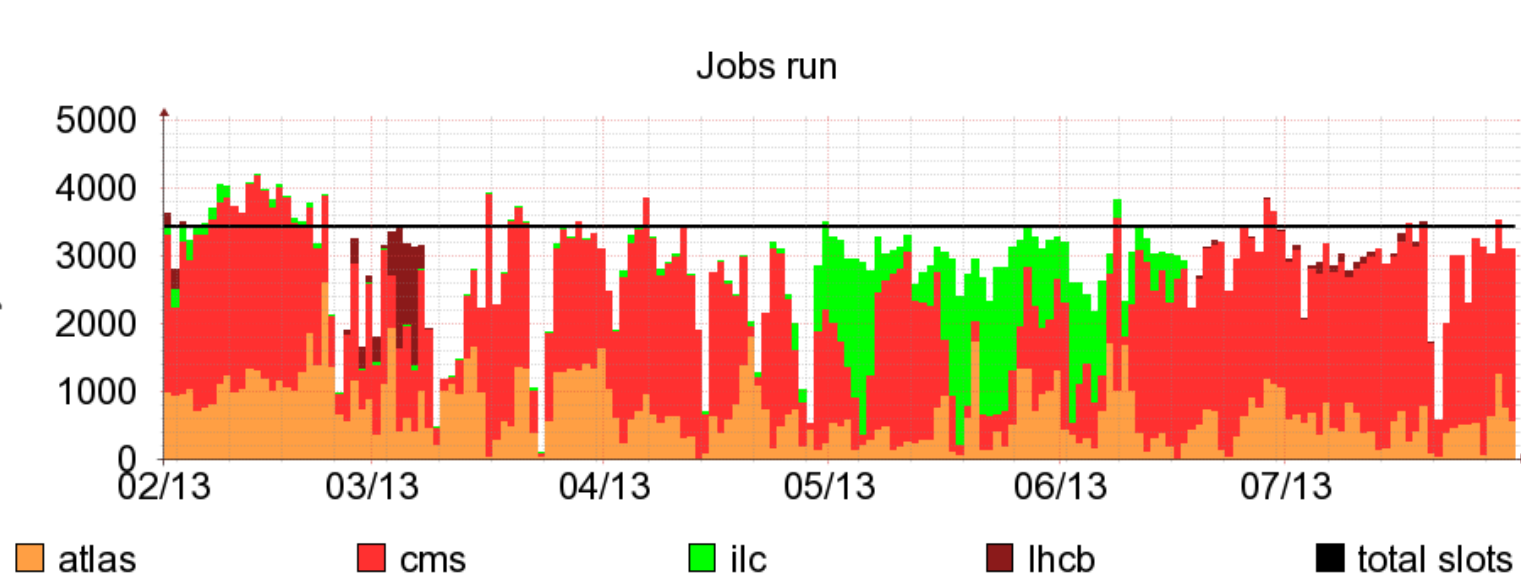
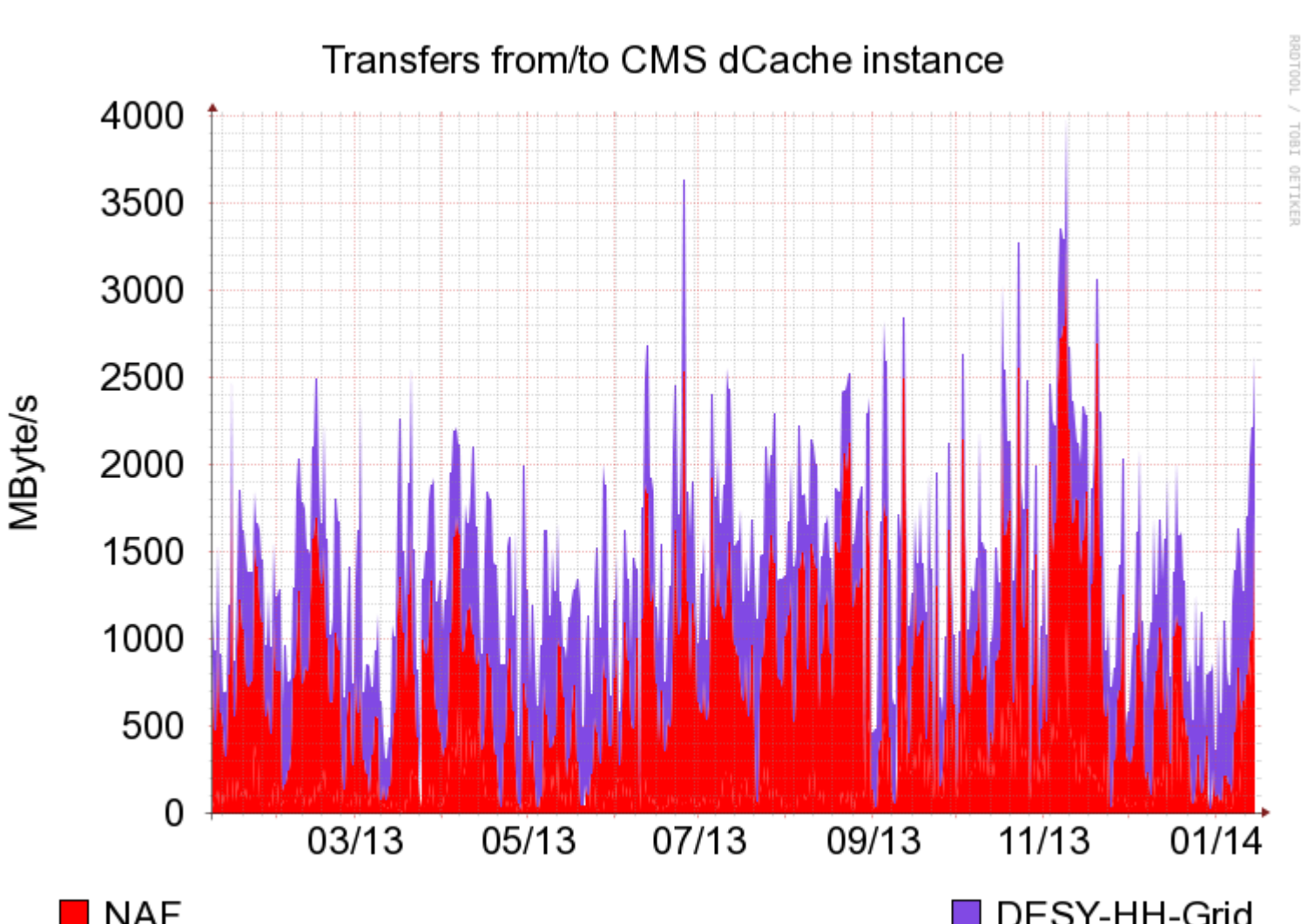
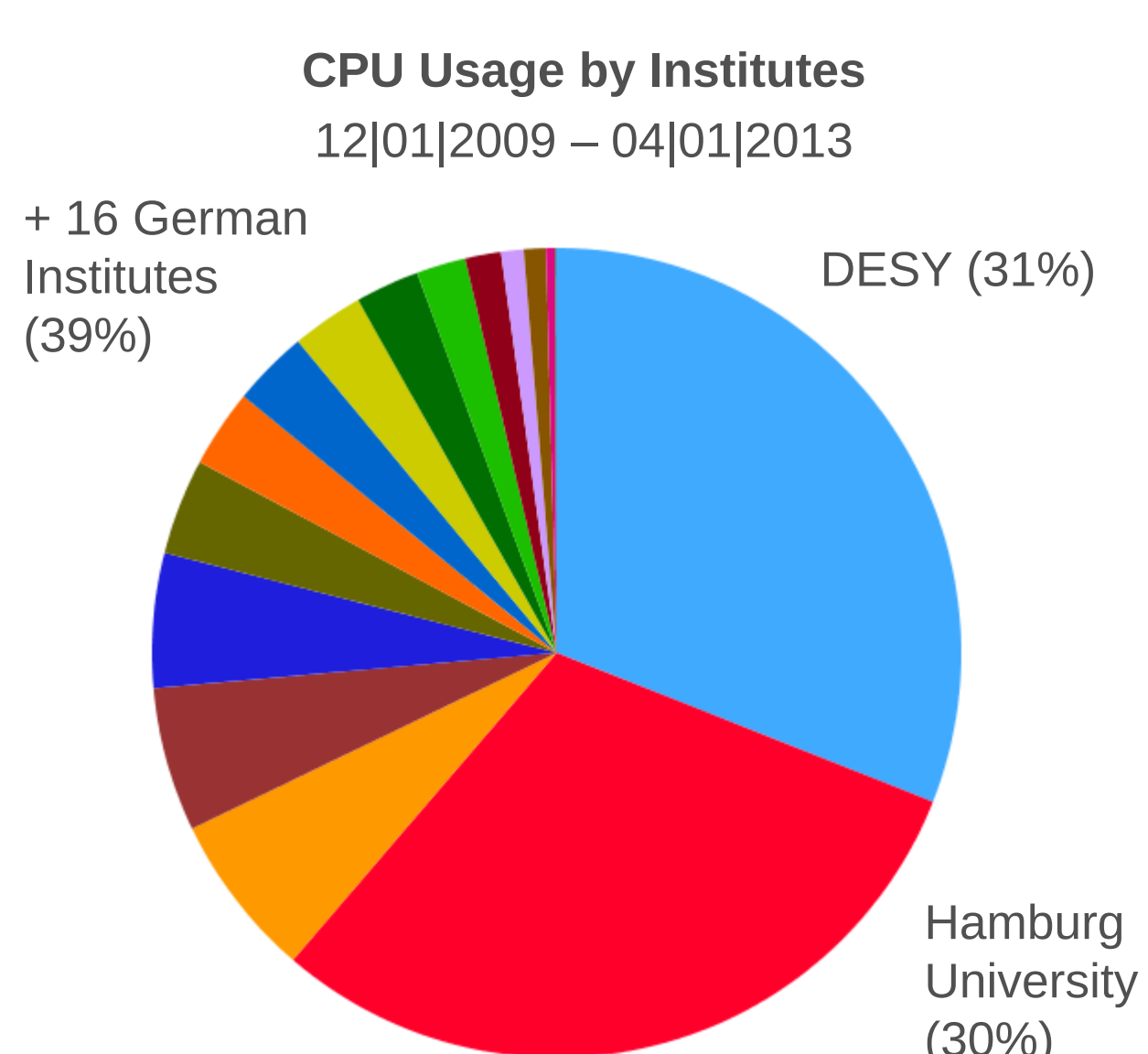
- DESY is largest Tier-2 in Germany for ATLAS and CMS
- Direct access to data hosted in the Tier-2 context
- Offer additional grid storage for data needed to be available in the NAF

Experiments:



Usage

- 60% external institutes
- Heavily used
- Substantial access to grid storage from NAF
- ~500 users overall



Resources

- 4000 job slots
- 1 PB workspace
- ~8 PB grid storage
- DESY AFS cell
- Remote Desktop (NX-like)

Schools and Workshops

- National (e.g. ATLAS-D tutorial)
- International (e.g. CMS DAS)

User Support

- Split support model:
 - General entry level (DESY UCO) for infrastructure -related questions
 - Second-level support by experts from DESY IT
 - Experiment-related questions handled by experiment groups
- NAF Users Committee (NUC)
 - Monthly meetings
 - Composed of delegates from all experiment groups and IT
 - Invaluable input for NAF operations and future planning
- Annual user meeting to get feedback and discuss changes and policies

The Future

- Follow changes in LHC computing models
- Integrate more experiments: Belle recently joined, HERA experiments are to join (data preservation); blueprint for experiments to come