SDCC/RACF Liaison Meeting

April 4, 2019

HEPIX News (and how it relates to BNL)

- NERSC turning off PDSF in April—migrating workload to Cori
  - Similar architecture to KNL cluster? Can KNL be used for STAR?
- CERN de-commissioning Wigner and moving equipment back to on-site containers until new data center is built
  - BNL has container on-site for unforeseen growth during 2019-2021 before new data center is ready
- CNAF (INFN) still recovering from flooded data center
  - Lessons for BNL's new data center?
- Future of AFS
  - DESY remains major user—transition to AuriStor?
  - CERN plans disconnect test beginning April 3rd for one week
  - still on target to phase out before run 3

HEPIX News (continued)

- AMD Epyc deployed at Nikhef, FZU, GSI
  - Increased acceptance by community, expected to grab ~10% of server market
- Weka.IO presented a GPU-optimized storage filesystem and claims to significantly outperform other well-known filesystems
- Effort to replace HS06 for cpu benchmarking
  - Experiment-based benchmark—using LHC sample workloads for now, but other contributions welcome
- WLCG/HSF cost performance modeling
  - Effort to address resource shortfall in the face of budget shortfalls
  - Effort includes tracking evolution of IT technologies and fine-tuning experimental computing models
  - May be applicable to sPHENIX and future eRHIC program
  - Videoconference meetings and mailing lists for those interested
- GlideinWMS recent developments
  - Management system for dynamic HTCondor pools
  - Re-engineered front-end for FNAL HEPCloud
  - New features/improvements, such as whole-node allocation, singularity support, etc

HEPIX Fall 2019