ALICE-USA Computing & OSG

- ALICE-USA = Collections of DOE funded participants
  - Creighton, Kent State, ORNL, LBNL, LLNL, Purdue, Wayne State, Houston, Tennessee, UT Austin
  - Ohio State Univ., CalPoly funded by NSF
- ALICE-USA Computing hardware funded in 2010
  - Funding for two sites – LBNL/NERSC and LLNL/LC
  - Points of Contact:
    - John Harris, Yale, ALICE-USA Coordinator
    - Ron Soltz, LLNL, ALICE-USA Computing Coordinator
    - Jeff Porter, LBNL/NERSC, Computing Project Manager
    - Jeff Cunningham, Livermore Computing ALICE lead

Hardware & Software

- ALICE Hardware Req's. = 10.4 kHepSpec06, 1.55 PB
  - NERSC 20 nodes 8-core 2.26 GHz Xeon, 8MB/24GB
  - Livermore Computing 72 nodes 12-core, 12-core 2.8 GHz Westmere, 48 GB
- Software = AliEn -> OSG -> Batch (SGE/SLURM)
  - 2 Reasons for OSG
    - Meet WLCG Reporting requirements
    - Provide parasitic access to NP-funded projects Steffen Bass, and others (note that AliEn/OSG path requires significantly less paperwork at LLNL)
- Timeline
  - NERSC online, LLNL system being commissioned

ALICE-USA & OSG (short term <1yr)

- Collaborate on interface to CREAM CE
  - CREAM under adoption by ALICE
  - we are looking into CREAM-SLURM interface
- Accept AliEn jobs/meet WLCG reporting criteria
  - in time for start of heavy ion running (early Nov. 2010)
- Accept other NP-funded jobs submitted via OSG
  - to follow immediately (by Dec. 2010?)
- Lower priority short term goals
  - Test parasitic running (not ALICE requirement)
  - Extend AliEn->OSG to other DOE/NSF funded facilities, OSU, UH, ORNL

ALICE-USA & OSG (long term >1yr)

- Explore/employ parasitic running
  - current ALICE focus on dedicated hardware may shift...
  - HEP and NP have different run/conference schedules
- Improve integration with OSU, UH, perhaps ORNL
  - may yield greater visibility within ALICE
- Identify future projects of mutual interest to OSG and NP (Heavy Ion) communities