LSST/PanDA status update

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Integration of Cori@NERSC

- An instance of Harvester was installed on a front node of Cori

- Tested with a containerized simulation tools provided by LSST

- BNL Astro group is interested in Many-to-One job mapping at NERSC for their single-core simulations

- Also data transfers from OLCF to NERSC were tested with Globus Online using Harvester tools

Grid infrastructure status

- OSG
  - Added and tested Bellarmine Grid Site
    - total in OSG: 2 sites
- GridPP
  - 31 Grid endpoints on 12 sites configured for LSST in UK, 3 endpoints in France (LAPP Annecy)
  - Manchester alone has put online 3000 job slots which are not strictly assigned for LHC experiments.
- Storage for LSST now available: 7 European sites, 1 US

Sequential jobs

- BNL Astro group suggested an experiment on managing sequential workflows with PanDA and YAML job descriptions [presented during TIM in January]

- Payloads will be run in containers prepared by BNL Astro group

- So far we received an document with high-level description of steps

- Actual examples will be available later

CHEP 2018

- Talk accepted at CHEP2018 (Sofia, Bulgaria)
- We are planning to test expanded Grid infrastructure by re-running jobs from LSST Data Challenge 1 fragment which were used by us in July 2017
- Also planning to present examples of sequential LSST jobs and workflow management by PanDA at EC2

Summary and future steps

- **Summary:**
  - Expansion of Grid resources and storages
  - Harvester at NERSC Cori is configured for LSST/ DESC jobs
- **Next steps:**
  - We will do Grid resources testing again (middle of June)
  - NERSC multijob runs (July)
  - Sequential jobs testing (May-June)
  - Preparation for CHEP2018 talk (May-June 2018)