



# PanDA @ HPC

**Kaushik De**

**US ATLAS Meeting, LBNL**

**Aug 21, 2014**

# Technical



- PanDA@ HPC – ongoing work as seen in talks
- In BigPanDA context – PanDA@HPC supports more than ATLAS (ALICE, AMS, LSST, COMPASS...)
  - So far, using EC2 PanDA server and ATLAS CERN server
  - Additional servers being deployed in Russia, CERN...
  - PanDA packaging and deployment is important
- Data management
  - Need lightweight layers and hooks for non-Rucio DDM
- Event service for HPC
  - Evolving rapidly - next session

# Start of Discussion



## ■ Status

- Impressive progress with specialized workloads on MIRA... need to continue this approach for using current allocations
- Steady progress - on adapting PanDA pilot to Titan
- Two approaches to HPC scheduling
  - Custom schedulers (i.e. RunJobTitan, RunJobMira)
  - Combine with event service – Yoda

## ■ Plans

- Long list of work still to be done
  - As seen in all talks today
  - How do we prioritize?

# Setting Priorities



- Low hanging fruits
  - Mostly all picked off
- Most challenging
  - Payloads
    - We need to involve other communities
    - Maybe go back to installing and publishing static releases?
    - Can we get help on cvmfs for binary compatible sites?
    - Goal: validate and publish standard releases and configure fairshare so HPC's can be used similar to grid resources with automatic job dispatch
  - Yoda
- Time critical
  - SC14
  - Next run

# Short Term



- Software installation/validation
- Configure as PanDA site
- Yoda for AthenaMPI
- Support for other communities