

21st International Conference on Computing in High Energy and Nuclear Physics (CHEP2015)



Contribution ID: 123

Type: **oral presentation**

Enabling opportunistic resources for CMS Computing Operations

Tuesday, 14 April 2015 15:30 (15 minutes)

With the increased pressure on computing brought by the higher energy and luminosity from the LHC in Run 2, CMS Computing Operations expects to require the ability to utilize “opportunistic” resources — resources not owned by, or a priori configured for CMS — to meet peak demands. In addition to our dedicated resources we look to add computing resources from non CMS grids, cloud resources, and national supercomputing centers. CMS uses the HTCondor/glideinWMS job submission infrastructure for all its batch processing, so such resources will need to be transparently integrated into its glideinWMS pool. Bosco and parrot wrappers are used to enable access and bring the CMS environment into these non CMS resources. Here we describe our strategy to supplement our native capabilities with opportunistic resources and our experience so far using them.

Primary author: HUFNAGEL, Dirk (Fermi National Accelerator Lab. (US))

Co-authors: TIRADANI, Anthony (Fermilab); Dr HOLZMAN, Burt (Fermi National Accelerator Lab. (US)); Dr MASON, David Alexander (Fermi National Accelerator Lab. (US)); LARSON, Krista (Fermi National Accelerator Lab. (US)); MAMBELLI, Marco (University of Chicago (US)); GUTSCHE, Oliver (Fermi National Accelerator Lab. (US)); MHASHILKAR, Parag (Fermi National Accelerator Laboratory)

Presenter: HUFNAGEL, Dirk (Fermi National Accelerator Lab. (US))

Session Classification: Track 7 Session

Track Classification: Track7: Clouds and virtualization