

Effective HTCondor-based monitoring system for CMS

Tuesday, 11 October 2016 16:30 (15 minutes)

The CMS experiment at LHC relies on HTCondor and glideinWMS as its primary batch and pilot-based Grid provisioning systems. Given the scale of the global queue in CMS, the operators found it increasingly difficult to monitor the pool to find problems and fix them. The operators had to rely on several different web pages, with several different levels of information, and sifting tirelessly through log files in order to monitor the pool completely. Therefore, coming up with a suitable monitoring system was one of the crucial items before the beginning of the LHC Run 2 to ensure early detection of issues and to give a good overview of the whole pool. Our new monitoring page utilizes the HTCondor ClassAd information to provide a complete picture of the whole submission infrastructure in CMS. The monitoring page includes useful information from HTCondor schedulers, central managers, the glideinWMS frontend, and factories. It also incorporates information about users and tasks making it easy for operators to provide support and debug issues.

Primary Keyword (Mandatory)

Monitoring

Secondary Keyword (Optional)

Tertiary Keyword (Optional)

Primary authors: BOCKELMAN, Brian Paul (University of Nebraska (US)); BALCAS, Justas (California Institute of Technology (US))

Co-authors: PEREZ-CALERO YZQUIERDO, Antonio (Centro de Investigaciones Energ. Medioambientales y Tecn. - (ES)); MASON, David Alexander (Fermi National Accelerator Lab. (US)); KHAN, Farrukh Aftab (National Centre for Physics (PK)); MARRA DA SILVA, Jadir (UNESP - Universidade Estadual Paulista (BR)); LETTS, James (Univ. of California San Diego (US)); VLIMANT, Jean-Roch (California Institute of Technology (US)); HERNANDEZ, Jose (CIEMAT); MASCHERONI, Marco (Fermi National Accelerator Lab. (US))

Presenter: VLIMANT, Jean-Roch (California Institute of Technology (US))

Session Classification: Posters A / Break

Track Classification: Track 7: Middleware, Monitoring and Accounting