Contribution ID: **227** Type: **Poster**

CRAB a user-friendly tool to perform CMS analysis in grid environment.

Tuesday, 26 September 2006 14:00 (20 minutes)

During september 2007 the LHC accelerator will start its activity.
CMS, one of the four LHC experiment, will produce a large amount of data that should
be stored and analyzed.
The CMS computing model is based on the grid paradigm: data are spread
and accessed on a number of geographically distributed computing centers.
Until real data are not available, the CMS community needs simulated data to study
the detector response, the forseen physics interaction and to get experience with
management and analysis data. So a large number of simulated data are produced and
distributed among computing centres. Real data will be analyzed by physicist at an
expected rate of ˜100000 jobs per day using the grid infrastructure.
To reach this analysis goals, CMS is developig CRAB (Cms Remote Analysis Builder),
a user friendly tool to allow a generic users without knowledge of grid
infrastructure to access data and perform its analysis as simply as in a local
environment.
CRAB is deployed by CMS to access remote data and it takes care to interact with all
Data Management services, from data discovery and location to output file management.
An overview of the current implementation of this tool, its interaction with grid
middleware and its usage is presented in this work.

Author: FANZAGO, Federica (INFN-PD)

Co-authors: CORVO, Marco (CNAF-CERN); FANFANI, alessandra (UNIBO); SPIGA, daniele (INFN_PG); FARINA, fabio (INFN-MI); DEFILIPPIS, nicola (INFN-BA); LACAPRARA, stefano (INFN-LNL)

Presenter: FANZAGO, Federica (INFN-PD)

Session Classification: Poster session

Track Classification: Users & Applications