

# CRAB Usage and jobs-flow Monitoring

*Wednesday 15 February 2006 09:00 (20 minutes)*

CMS is one of the four experiments expected to take data at LHC. Order of some PetaBytes of data per year will be stored in several computing sites all over the world. The collaboration has to provide tools for accessing and processing the data in a distributed environment, using the grid infrastructure. CRAB (Cms Remote Analysis Builder) is a user-friendly tool developed by INFN within the CMS, to help the user to submit a job to the grid, featuring the input data discovery, the Job creation, the job submission, the monitoring of the job status, the output retrieval and, finally, the handling of the user output. In this abstract we describe how we monitor the use of CRAB, by means of an applications which collects the jobs informations from submission time to output retrieval time, and send them to a DataBase. We also present some analysis of the data collected during the second half of 2005, aimed at understanding the performance of the whole system and at finding eventual bottlenecks, in order to understand how to improve the system.

**Author:** Dr SPIGA, Daniele (INFN & Università degli Studi di Perugia)

**Co-authors:** Dr LORIS, Faina (INFN & Università degli Studi di Perugia); Dr SERVOLI, Leonello (INFN & Università degli Studi di Perugia)

**Presenter:** Dr SPIGA, Daniele (INFN & Università degli Studi di Perugia)

**Session Classification:** Poster

**Track Classification:** Distributed Data Analysis