

ATLAS requirements for conditions DB for Run 3 and beyond

Monday 29 May 2017 14:00 (20 minutes)

Conditions data are in general non-event data varying with time. A particular subset is critical for physics data processing (detector status and configuration, run information, detector calibration and alignment, ...). Part of these data is used instead for monitoring of the detector.

Atlas has been using the COOL framework as a generic abstraction layer to deal with conditions data during Run1 and Run2. Online systems are using also direct CORAL connections for accessing dedicated relational tables.

The main relational backend for the storage of conditions data and related metadata is Oracle. In this talk we summarise the present usage of Oracle in conditions data infrastructure and present the future ideas for the evolution of the infrastructure for the management of conditions data, with simple estimates for the data volumes expected in future runs. We will also present an overview of the software requirements for Run3 in terms of database access.

Author: FORMICA, Andrea (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR))

Presenter: FORMICA, Andrea (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR))

Session Classification: Requirements for run3&4

Track Classification: Requirements for run3&4