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## Dirac integration with a general purpose bookkeeping DB: a complete general suite

*Monday, 14 October 2013 15:00 (45 minutes)*

In HEP computing context, R&D studies aiming to the definition of the data and workload models were brought forward by the SuperB community beyond the experiment life itself.

This work is considered of great interest for a generic mid- and small size VO to fulfil Grid exploiting requirements involving CPU-intensive tasks.

We present the R&D line achievements in the design, developments and test of a distributed resource exploitation suite based on DIRAC. The main components of such a suite are the information system, the job wrapper and the new generation DIRAC framework. The DB schema and the SQL logic have been designed to be able to be adaptive with respect to the VO requirements in terms of physics application, job environment and bookkeeping parameters. A deep and flexible integration with DIRAC features has been obtained using SQLAlchemy technology allowing mapping and interaction with the information system. A new DIRAC extension has been developed to include this functionality along with a new set of DIRAC portal interfaces aimed to the job, distributed resources, and meta-data management. The results of the first functionality and efficiency tests will be reported.

### Summary

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