ASAP Distributed Analysis

Describe the scientific/technical community and the scientific/technical activity using (planning to use) the EGEE infrastructure. A high-level description is needed (neither a detailed specialist report nor a list of references).

ASAP is a job creation and management framework used by CMS
physicists
to perform data analysis using the Grid. ASAP hides many of the
low-level details of the Grid so that physicists can distribute their
work across the Grid to take advantage of the available CPU power and
access the stored data. There is also a server side component
to which users can delegate responsibility for their jobs. The
server
monitors the status of jobs and resubmits in the case of Grid or
application failure.

Report on the experience (or the proposed activity). It would be very important to mention key services which are essential for the success of your activity on the EGEE infrastructure.

ASAP provides a layer over the standard grid job management tools
which means that users do not have to be concerned with the
details of
job creation, submission and monitoring. The presence of the server
side component increases the chances of the users jobs being
successfully completed.

With a forward look to future evolution, discuss the issues you have encountered (or that you expect) in using the EGEE infrastructure. Wherever possible, point out the experience limitations (both in terms of existing services or missing functionality)

The main concerns are the performance and reliability of jobs. In
addition documentation is often missing or inadequate.

Describe the added value of the Grid for the scientific/technical activity you (plan to) do on the Grid. This should include the scale of the activity and of the potential user community and the relevance for other scientific or business applications

The Grid provides the computing and storage resources necessary for
the analysis and storage of large volumes of High Energy Physics
data.

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