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## Saleve: A Programming Framework for Scientific Parameter Study Problems

### Abstract

Saleve is a generic framework for making the development of Parameter Study tasks easy for scientists and engineers not familiar with distributed computing technologies.

Saleve also makes it possible to migrate existing sequential programs in order to exploit the EGEE Grid.

In this poster we wish to present three aspects of Saleve.

First, we demonstrate its operation via a scientific pilot application.

We simulate the abrasion process of a pack of pebbles and we explore detailed statistics about their final shapes over a range of parameters.

Second, we present a lightweight delegation of credentials, which works without installing gLite or other third party software on the end users' computer.

Third, we try to reduce the makespan of the jobs submitted by Saleve.

We also outline some ideas for further improvements.

### Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

The Saleve Project (Web: <http://saleve.web.cern.ch/saleve/>)

### Special requirements other than the set up mentioned in the CfA text.

It is only a poster, not a demo. Thank you.

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