



Contribution ID: 85

Type: **Poster**

GATE-Lab

Please indicate your preferred day to give a demo.

Not on Monday

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If possible, poster booth close to the posters "Deployment and evaluation of FIELD-II Matlab ultrasonic simulator on EGEE" and "A comparison of ARC and gLite on medical imaging use-cases"

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

NA4 Biomed, Life Sciences SSC

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

NO

Abstract

Grid applications often bring significant computational speed-up but lack a user-friendly interface, thus drastically limiting their user community. This is also the case for gridified radiation therapy simulations performed with the GATE software developed by the OpenGate collaboration. We therefore developed the GateLab, a user-friendly interface composed of a MOTEUR-based web server and a Java client using VBrowsers as a GUI to the LFC. Starting from a single user interaction which indicates the main simulation macro file, the GateLab searches for and sends all the needed inputs to the grid. It then splits the simulation into sub-tasks that are submitted to the grid. It monitors the simulation until completion, retrieves and merges the outputs into a location accessible with a simple web URL and keeps track of the simulations history. All these operations are transparent for the end user who does not see the grid complexity behind GateLab. We hope thus extend the usage of the grid.

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