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imath.cesga.es: Making easy GRID to mathematicians

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

Project Ingenio Mathematica i-MATH

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

None

Abstract

imath.cesga.es is a new European VO devoted exclusively to Mathematics promoted by the i-MATH Project. This initiative has the aim of leveraging the investigation in Mathematics in Spain, including the usage of computing and supercomputing facilities for research in Mathematics. Although other previous GRID projects have been developed in the area of Mathematics, up to our knowledge, this is the first initiative focused on all fields of this science. The initial infrastructure has been deployed in three distributed sites, basing the front-ends on the XEN virtual machines to simplify the deployment and management in the future. Since the usage of GRID has to be very easy, we have tested several final-user frameworks and we have selected P-Grade Grid Portal as front-end because it fulfills the requirements of simplicity and powerful workflow, including parametric studies. The VO is open to other research groups in Mathematics both within i-MATH Project or Europe at large.

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