



What geosciences applications to be ported on EGEE?

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Funded by the European Commission, the Enabling Grids for E-science (EGEE) project is the flagship Grid infrastructure project of the EU. The second two-year phase of the project started 1 April 2006 and includes: More than 90 partners in 32 countries, organised in 13 Federations, A Grid infrastructure spanning almost 200 sites across 39 countries, An infrastructure of over 40,000 CPU available to users 24 hours a day, 7 days a week, About 80 Petabytes of storage. CERN has been the coordinator of the European project. A similar infrastructure is deploying in Latine America (EELA project), in the mediterranean area (EumedGrid), in China (EU China) and in India (EUIndiaGrid). Different other Grid infrastructures exist and an effort of interoperability has been carried out.

A production Grid like EGEE correspond to specific needs in geosciences not fulfilled by other computer resources. Since 2000 in Europe a large variety of Geosciences applications have been ported on Grid. In this paper, the applications will be analyzed in terms of criteria like environment needed, input and output data, algorithm used, sharing of data and algorithms.. The main scientific benefits to use a grid such as EGEE will be pointed out.