DEISA2

Project reference: 222919
Funded under: FP7-INFRASTRUCTURES

Distributed European Infrastructure for Supercomputing Applications 2

From 2008-05-01 to 2011-04-30

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tr>
<td>EUR 18 654 000</td>
<td>INFRA-2007-1.2-03 - e-Science Grid infrastructures</td>
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<tr>
<th>EU contribution:</th>
<th>Call for proposal:</th>
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<tr>
<td>EUR 10 237 000</td>
<td>FP7-INFRASTRUCTURES-2007-2</td>
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<tr>
<th>Coordinated in:</th>
<th>Funding scheme:</th>
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<tr>
<td>Germany</td>
<td>CPCSA - Combined Collaborative Project and Coordination and Support Action</td>
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Objective

DEISA2 continues to support and develop a distributed high performance computing infrastructure by consolidating the existing DEISA infrastructure and extending its collaborative environment for capability computing and data management. The resulting infrastructure is unmatched world-wide in its heterogeneity and complexity, enabling the operation of a powerful supercomputing Grid built on top of national services, facilitating Europe’s ability to undertake world-leading computational science research.

DEISA has already proved its relevance for advancing computational sciences in leading scientific and industrial disciplines within Europe and has paved the way towards the deployment of a cooperative European HPC ecosystem. The existing infrastructure is based on the tight coupling of eleven leading national supercomputers, using dedicated network interconnections of GEANT2 and the NRENs.

In DEISA2, activities and services relevant for Application Enabling, Operation, and Technologies are continued and enhanced, as these are indispensable for the effective support of world-leading computational sciences in the area of supercomputing. The service provisioning model is extended from one that supports a single project to one supporting Virtual European Communities. Collaborative activities will be carried out with new European and other world-leading initiatives. Of strategic importance is the cooperation with the PACE initiative which is preparing for the installation of a limited number of leadership-class tier-0 supercomputers in Europe. For a future persistent European HPC ecosystem, as suggested by ESFRI, which integrates national tier-1 centres and the new tier-0 centres, DEISA2 will deliver a turnkey operational solution. For this goal, DEISA2 targets the integration of further national computing centres as Associated Partners. DEISA2 will also contribute to interoperation of distributed infrastructures.

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<td>- 222919 deisa2 p1 publish summary</td>
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Subjects

Innovation and Technology Transfer

Last updated on 2014-09-09