

HPC-Europa++ - Pan-European Research Infrastructure on High Performance Computing for 21st century Science
Project number 211437 Call FP7-INFRASTRUCTURES-2007-1 - Coordination and support action



HPC-Europa++

Pan-European Research Infrastructure on High Performance Computing

WELCOME to the October issue, the third one, of HPC-Europa++ newsletter. This issue is edited by CINECA and aims to present the new project HPC-Europa2 and the two new centers that will offer Transnational Access within HPC-Europa2.

Next call for applications is:

15th November 2008

HPC-Europa2 Overview

HPC-Europa2 is a partnership of 7 leading High Performance Computing centers and 4 centers of excellence, carrying out research on HPC advanced tools and methods.

The aim of HPC-Europa2 is to provide advanced computational services in an integrated way to European researchers working at the forefront of science.

HPC-Europa2 offers access to first-class HPC platforms for researchers throughout the whole Europe in all the domains of computational science, providing advanced computational environments, technical support and training.

The ultimate goal is to allow researchers to achieve and maintain a competitive edge on the world stage.

Over the four years lifespan of the action, the TA will provide HPC services, specialist support, scientific tutoring and opportunities for collaboration to more than 1000 European researchers. This very large community of users will be provided with more than 22 millions of CPU hours of computing time.

Researchers from all around Europe are invited to apply now to our TA programme: we offer EC-funded visits to researchers in any discipline which can benefit from access to HPC facilities. Successful applicants will work in collaboration with skilled scientists in Europe in a similar field, while benefiting from access to some of the most powerful HPC facilities.



The SUPERCOMPUTING CENTRES OFFERING OPPORTUNITIES of TRANSNATIONAL ACCESS are:

CINECA (Bologna - IT)
<http://www.cineca.it/en>

BSC (Barcelona - ES)
<http://www.bsc.es/>

EPCC (Edinburgh - UK)
<http://www.epcc.ed.ac.uk/>

HLRS (Stuttgart - DE)
<http://www.hlrs.de/>

GENCI (Paris - FR)
<http://www.genci.fr/>

SARA (Amsterdam - NL)
<http://www.sara.nl/>

CSC (Helsinki - FIN)
<http://www.csc.fi/>



Edited by



contact

staff@hpc-europa.org
access@hpc-europa.org

www.hpc-europa.org

CSC (Helsinki - FIN) <http://www.csc.fi/english>



In Finland the computational services needed by science are provided by CSC -IT center for science Ltd, owned by the Ministry of Education.

CSC provides and develops versatile information technology and training services for the needs of academia, research institutes, state administration and companies. CSC is a non-profit company with 170 employees.



CSC's mission is to improve the possibilities for research, teaching and product development conducted in Finnish higher education institutions, research institutes, and industry. CSC's operational sphere includes national and international collaboration, enhancing interdisciplinary interaction, and providing computation based on distributed data processing and international data communications connections. Access to CSC's databases, programs, and computation servers is arranged through the Funet network.



CSC concentrates on five major service entities: Data services for science and culture, Funet network services, Computing services, Application services, and Information management services.

CSC's supercomputers can run even the most demanding parallel programs efficiently. The most powerful of CSC's computers, a Cray XT4 system called Louhi, currently has theoretical peak performance of more than 87,000 billion floating point operations per second.



CSC is situated at Otaniemi, just 15 minutes west of Helsinki, a stone's throw from Nokia's worldwide headquarters. Otaniemi is the leading technology hub in the Nordic countries, featuring a unique mix of world-class research organizations, academic institutions and over 600 companies from start-ups to multinational corporations operating around a compact 2 kilometre campus. Twice selected by the EU as one of the most innovative regions in Europe, Otaniemi is a community of over 32,000 people with 16,000 students and 16,000 technology professionals.

GENCI (Paris - FR) <http://www.genci.fr/>

GENCI, Grand Equipement National de Calcul Intensif, is owned for 50 % by the French State represented by the Ministry for Higher Education and Research, for 20 % by the CEA, 20 % by the CNRS and 10 % by the Universities. It has been created in January 2007.

GENCI acquires and coordinates the major computer equipment for the French computer centers for civilian research - CINES, IDRIS/CNRS, CCRT/CEA-, by providing for their financing.

Its other missions entail:

- promote the use of modeling, simulation and high performance computing in fundamental and industrial research;
- promote the organisation of European high performance computing and participate to its actions. GENCI has been mandated to be the French representative in the PRACE FP7 project ("Partnership for advanced computing in Europe");
- perform all research required for developing and optimising the utilisation of computing equipment;
- open the equipment it owns to all interested scientific communities, academic or industrial, national, European or international; GENCI will mainly contribute to the HPC-EUROPA2 project through access to CINES.



The new CINES JADE machine:
SGI ALTIX ICE - 147 Tflop/s, 12288 cores



CINES (Centre Informatique National de l'Enseignement Supérieur - www.cines.fr), is located in Montpellier (France), and proposes computer services to the scientific community in public research and higher education. CINES offers services in High Performance Computing, long term data and numerical document preservation, hosting of computer equipment.

