The NorduGrid Collaboration

NORDUGRID

Grid Solution for Wide Area Computing and Data Handling

Members, associated partners and contributors

University of Oslo
Copenhagen University
Lund University
Uppsala University
Helsinki Institute of Physics
Linköping University
Umeå University
University of Bergen
P. J. Šafárik University in Košice
Aalborg University
University of Southern Denmark
University of Melbourne
Jožef Stefan Institute
National Institute of Chemical Physics and Biophysics
Tartu University
University of Bern
Norwegian University of Science and Technology
Royal Institute of Technology
St. Petersburg State University
Finnish IT Center for Science
JINR University Centre

NorduGrid is a collaboration established by five Nordic academic institutes with the purpose of pursuing Grid technology research. The collaboration is at the core of a worldwide Grid Research and Development community that develops, maintains and supports a free Grid middleware, known as the Advanced Resource Connector (ARC).

The aim is to deliver a fault-tolerant, scalable, portable, light-weight and yet fully featured solution for a global computational and data Grid system. This set of tools and services developed by NorduGrid comprises the ARC middleware. ARC is an Open Source software, available for a wide range of Linux systems.

The goals

- Develop and support ARC middleware
- Coordinate contributions to the core ARC code
- Define strategical development directions following the latest tendencies in Grid technologies
- Promote ARC middleware solutions in such areas as Grid development, deployment and usage
- Contribute to development and spread of world-wide Grid standards

NorduGrid traces its history back to May 2001, when NORDUnet funded a project aiming to build a Grid infrastructure suitable for production-level research tasks. To meet the specific needs of the Nordic computing resource owners, the project came up with an original middleware architecture and implementation, which allowed to set up the infrastructure in May 2002. Since its first release, the ARC middleware is deployed and being used in production environments by ever growing multidisciplinary user group. Development is driven by user requirements, with emphasis being put on scalability, stability, reliability and performance. Many Grid projects, such as Swegrid, DGC, NorGrid, Swiss ATLAS Grid, Estonian Grid, M-Grid in Finland and NDGF chose ARC as their middleware. One of the largest open production Grid of the world spreads with ARC help from Norway to Australia connecting approximately 6000 processors and more than 60 TB of storage space at about 60 sites.

For general inquiries please use contact@nordugrid.org

Visit the NorduGrid Web site at http://www.nordugrid.org