

Second Nordic Grid Neighbourhood Workshop,

Tallinn, January 20, 2005

F. Ould-Saada, Oslo University





Nordic Grid Neighbourhood

NGN

DENMARK:

University of Copenhagen (NBI, DIKU)
Southern Danish University, Dep. of Computer Science
Aalborg University, Dep. of Computer Science

ESTONIA:

National Institute of Chemical Physics and Biophysics (NICPB)
Estonian Educational and Research Network (EENet)
Tartu University, Institute of Technology

FINLAND:

University of Helsinki, Helsinki Institute of Physics

LITHUANIA:

Vilnius University, Institute of Materials Science and Applied Research

NORWAY:

University of Oslo, Physics institute
University of Bergen, Department of Physics
University of Tromsø, Department of Computer Science
NTNU, Trondheim, Department of Computer and Information Science
NTNU, Trondheim, IT division (ITEA)

RUSSIA:

St. Petersburg State University, Dep. of Physics
Petrodvorets Telecommunication Center

Dubna?

SWEDEN:

Lund University, Department of Physics
Linköping University, National Supercomputer Center
Umeå University, Department of Computing Science and HPC2N
Uppsala University, Department of Radiation Sciences
Royal Institute of Technology, NADA/PDC, KTH
Stockholm University and KTH, Department of Physics

LATVIA?

ICELAND?

... 9 countries, 24 institutions?

I still doubt that 280 kNok is the only attraction!

Grid projects in which Norway is involved include:

[Nordugrid](#)

[EGEE](#) (Enabling Grids for E-science)

[NDGF](#) (Nordic Data Grid Facility)

- [NorGrid](#)

- is a project to build competence on grid and related distributed computing technologies in Norway.
- it prepares the Norwegian HPC infrastructure for the introduction of middleware technology to enhance resource utilization and transparent sharing of data.
 - Partners: [NTNU](#), [UiB](#), [UiO](#), [UiT](#), and [UNINETT](#).
- Project funded in part by Norwegian Research Council via [NOTUR](#) program and partners.
- NorGrid was a 1-year project (Jan-Dec 2004).

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Processes:  Grid  Local



Site	CPU	Load (processes: Grid+local)	Queueing
University of Bergen	58	 0+18	0+0
Norwegian University of Science and Technology	62	 0+13	0+0
University of Tromsø	212	 0+5	0+0
3 sites	332	0 + 36	0 + 0

- Norwegian HPC consortium has a kick-off meeting for the new project (NOTUR II) in Oslo
on Jan 19-20!
- Norgrid activity continues in 2005
 - NOTUR II consortium is currently defining plans for the year.
 - Level of activity however still subject to available funding.

- The NorGrid activity consists of a number of subactivities:
 - Middlewares (Nordugrid/ARC (mainly) and Unicore)
 - Storage Resource Broker
 - Silver Metascheduler
 - Portal activity
 - FEIDE interface to middleware

Felles Elektronisk IDentitet i utdanningssektoren' is a standard developed by UNINETT AS to authenticate and authorize users for the entire Norwegian educational sector, including schools, colleges, universities, etc.

- In NorGrid, primarily bio-informatics and chemistry users contacted since they seem to have many applications that are 'suitable' for the grid.
- Applications include
 - Gaussian, CHARMM, Dalton, Dirac, BLAST, HMMer, MrBayes, Matlab.
 - ... Results and inputs being accumulated

-> NG Technical meeting and next NGN workshop.

More at the next NGN workshop

