



Expanding computational power

National Supercomputer Centre
Linköping University, Sweden



Welcome to
NSC'08
in Linköping
14-15 October 2008



NSC – National Supercomputer Centre

- Founded 1989
- One of the largest academic supercomputing centres in Sweden
- Offering access to a diversity of architectural and data storage solutions
- Over 200 scientific users
- Total NSC staff of ~20 persons



Several different scientific disciplines

- Physics
 - material physics
 - particle physics
 - astronomy
 - fluid mechanics
- Chemistry
 - molecular dynamics
 - quantum chemistry
- Bioinformatics and further biosciences
 - large-scale sequence analyses
 - protein family characterisation
 - structural calculations



Swedish National Infrastructure for Computing



- Organisation within the Swedish Research Council
- Coordination of six centres in Sweden
 - Umeå HPC2N
 - Uppsala UPPMAX
 - Stockholm PDC
 - Linköping NSC
 - Göteborg C3SE
 - Lund LUNARC



NSC – National and International Collaborations

Scientific community

- SNIC, Swedish National Infrastructure for Computing
- Research groups at Linköping University and other universities

Partners

- SMHI, Swedish Meteorological and Hydrological Institute
- Saab

International projects

- NDGF, Nordic DataGrid Facility
 - WLCG, Worldwide LHC Computing Grid project
 - BioGrid, grid infrastructure for bioinformatics
- EGEE, Enabling Grids for E-science
- PRACE, Partnership for Advanced Computing in Europe
- IS-ENES, InfraStructure for the European Network for Earth System modelling

