



NCC IHPC – LUMI Supercomputer Status Update & Plans

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10TH MARCH, NCC IHPC – LUMI STEERING COMMITTEE MEETING, ONLINE



@ProfDrMorrisRiedel



@Morris Riedel



@MorrisRiedel



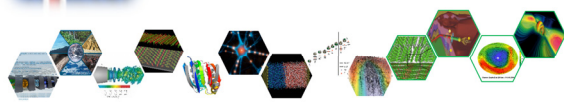
@MorrisRiedel



<https://www.youtube.com/channel/UCWC4VKHmL4NZgFfKoHtANKg>



IHPC National Competence Center
for HPC & AI in Iceland



EuroHPC
Joint Undertaking

EOSC
NORDIC

RAISE
Center of Excellence

ADMIRE



UNIVERSITY OF ICELAND
SCHOOL OF ENGINEERING AND NATURAL SCIENCES
FACULTY OF INDUSTRIAL ENGINEERING,
MECHANICAL ENGINEERING AND COMPUTER SCIENCE

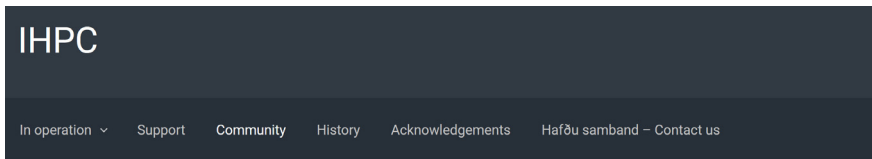
HELMHOLTZAI | ARTIFICIAL INTELLIGENCE
COOPERATION UNIT

DEEP
Projects



JÜLICH
Forschungszentrum | JÜLICH
SUPERCOMPUTING
CENTRE

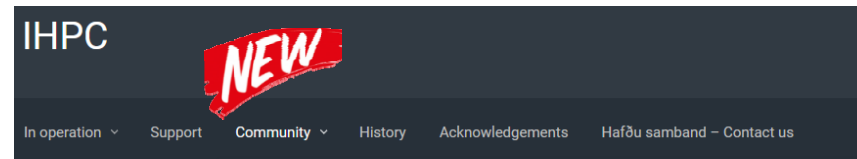
SimDataLabs in Iceland – Update & ToDos



Community

TODO: SimDataLabs

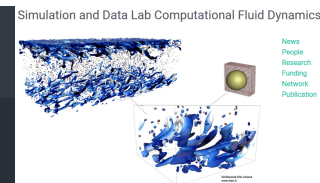
- ✓ Hannes / Elvar / Ebba → Problems with Input?
- ✓ Henning → name and content
- ✓ Trouble with Web page and missing pages (Reza looks into it with UTS)



Community

All Community Experts

- Simulation and Data Lab Neuroscience
- Simulation and Data Lab Computational Chemistry
- Simulation and Data Lab Computational Fluid Dynamics
- Simulation and Data Lab Electron, optical and transport properties of nanoscale systems – Computational Physics
- Simulation and Data Lab Remote Sensing
- Natural Language Processing Lab
- Simulation and Data Lab Acoustic and Tactile Engineering
- Simulation and Data Lab Health and Medicine
- Simulation and Data Lab Software Engineering for e-Science



News
People
Research
Funding
Network
Publication

If you would like to be a moderator of the

Simulation and Data Lab Remote Sensing

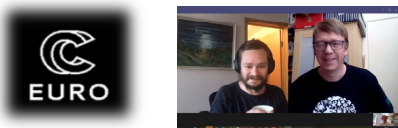


General information

The Simulation and Data Lab Remote Sensing (SimDataLab RS) leads to increase the visibility on interdisciplinary research between remote sensing and advanced computing technologies and parallel programming. This includes high-performance and distributed computing, quantum computing and specialized hardware computing. The SimDataLab RS is based at the University of Iceland and works together with the High-performance and Distributed Computing in Remote Sensing (HDCRS) working group of the Geoscience and Remote Sensing Society (GRSS). Together with HDCRS, the SimDataLab RS disseminates information and knowledge through educational events, special sessions and tutorials at conferences and publication activities.

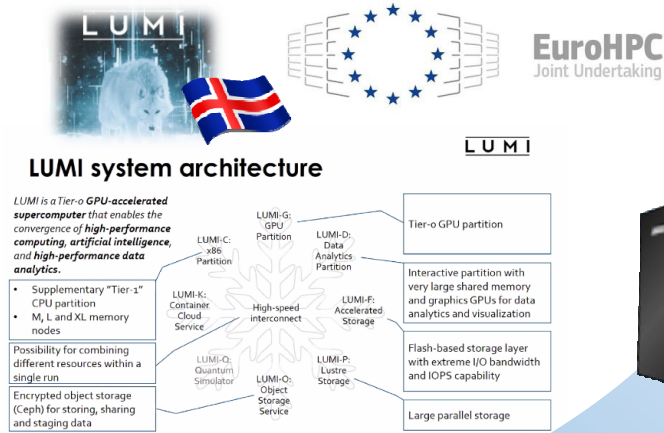
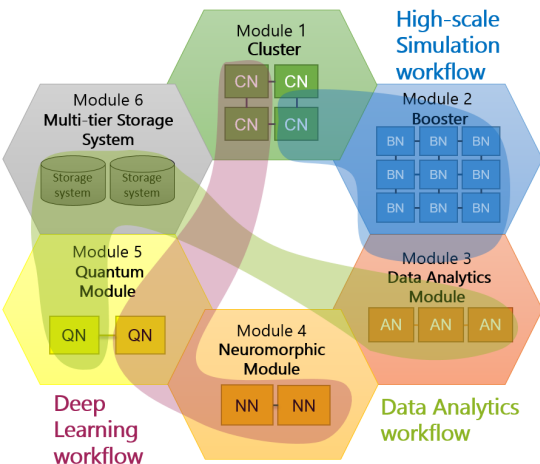
Selected Discussion Topics:

- ✓ Governance of Labs: Bottom-Up by PI, but optional Executive Advisory Board (EAB) members could be used to guide & 'review' labs on a yearly basis (could be useful): labs of Juelich are 'friendly' reviewed on a 1-2 years basis as part of funding program
- ✓ Engagement with Industry: ISOR, MATIS, MAREL, DECODE (work-in-progress), etc.
- ✓ Including Start-Ups: Nordverse (medical NLP, done), Treble (Acoustic, done), others?
- ✓ Relationship to our new IRHPC & steering board activities → Logo for IRHPC/NCC?!
- ✓ Teaching better topics of relevance in HPC Course for Iceland, other activities?



Jointly engage in future funding together, e.g. EuroHPC Master of Science in HPC program and many other activities planned in Horizon Europe

International Collaboration Partners: Juelich Supercomputing Centre & LUMI



DEEP Projects

Despite the strong collaborations, it is important to have local HPC resources in Iceland for education & research (!)

