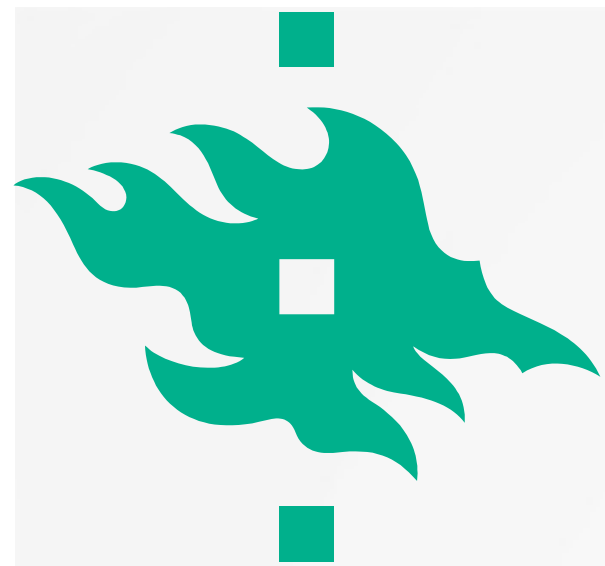# BASIC USAGE OF COMPUTING SERVICES AT CSC

CSC - IT CENTRE FOR SCIENCE

ICT expert services for universities & research institutes

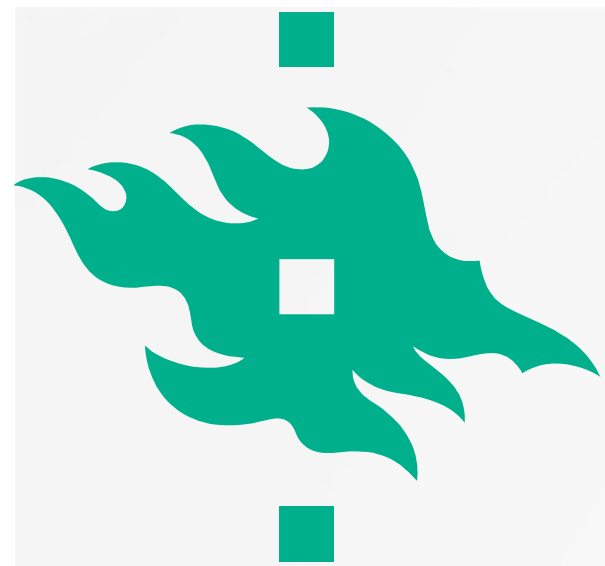Owned by the Finnish state and higher education institutes

Services:
High-Performance Computing, HPC

Data storage

Training
– *CSC Winter School in Bioinformatics*
– *CSC Summer School in HPC*
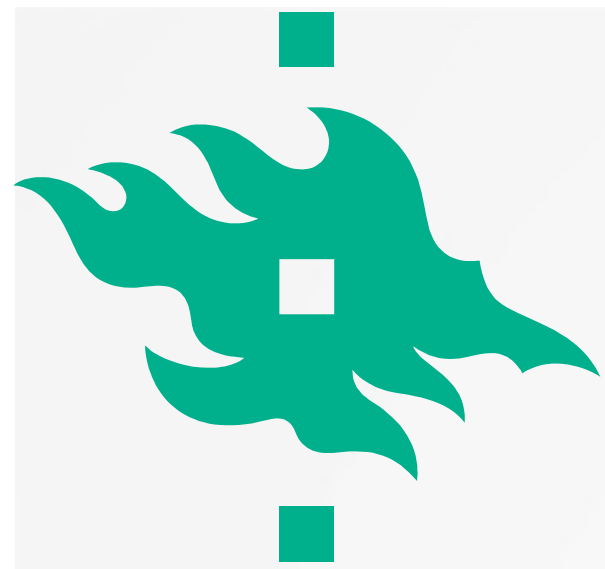
Support

HPC resources: Puhti & Mahti

Puhti

Serial and parallel jobs

Huge memory jobs

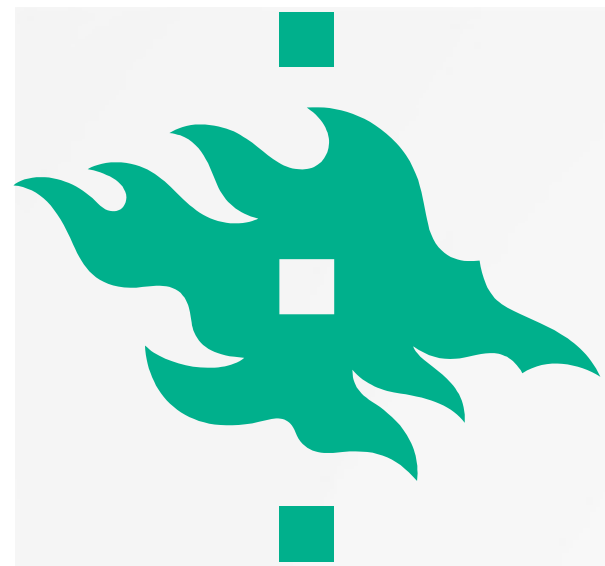Lots of preinstalled programs

Interactive use

Mahti

Massive parallel jobs

IMPORTANT CONCEPTS

- Login node – computing node

- CSC projects and folders

- Quotas – size and file number

- Billing units

- Running jobs in SLURM

  - Interactive use

  - Serial batch job

  - Array jobs

Further reading and links

CSC webpages for research: https://research.csc.fi/

CSC user guides: https://docs.csc.fi/

Learning materials from CSC: https://www.csc.fi/oppimateriaalit

Support and training: https://research.csc.fi/support-and-training

Puhti web interface: www.puhti.csc.fi

Project management: https://my.csc.fi