

National Allocations Committee (NAC)

Paul Erhart (chair)
Chalmers University of Technology



National Allocations Committee (NAC)



NAC-Working group (NAC-WG)

Paul Erhart (Chalmers, chair)
Leif Eriksson (GU, co-chair)
Johan Revstedt (Lund)
Olav Vahtras (KTH)
Susanne Höfer (UU)
Outi Tammissola (KTH)

Peter Münger (NSC, chair)
Henric Zazzi (PDC)
Marcus Lundberg (Uppmax)
Thomas Svedberg (C3SE)
Jonas Lindemann (LUNARC)
Jerry Eriksson (HPC2N)

Responsible for allocations in

NAISS Large Compute

- Tetralith 14.5 Mcore-h/month
- Dardel 28 Mcore-h/month
- Alvis 175 kGPU-h/month
- Dardel-GPU 105 kGPU-h/month

LUMI Sweden

- LUMI-C 6.8 Mcore-h/month
- LUMI-G 450 kGPU-h/month

NAISS Large Storage and LUMI Storage

Review process for Large and LUMI

Submission

- Project plan ← Data Management Plan!
- Activity report ← based on NAISS (acknowledgment)
- CV and publication list of PI

Process

- 2 sci + 1 tech reviewers (nat'l and internat'l experts)
 - Continuous renewal of reviewer pool
- VR-like system used for ranking
- Decisions during allocation meeting (NAC-WG, NAC)

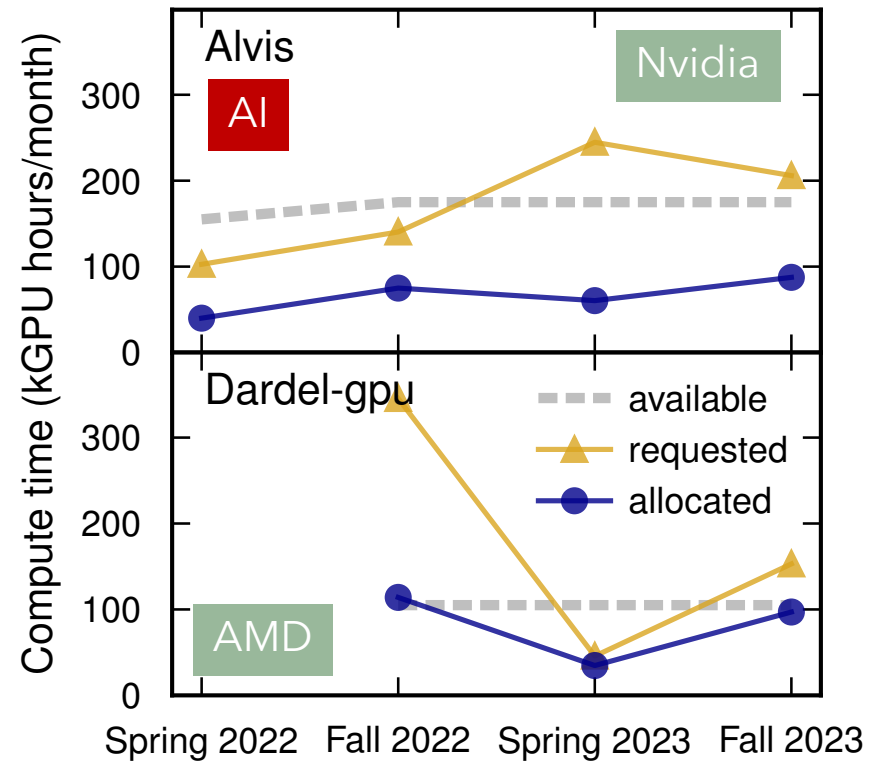
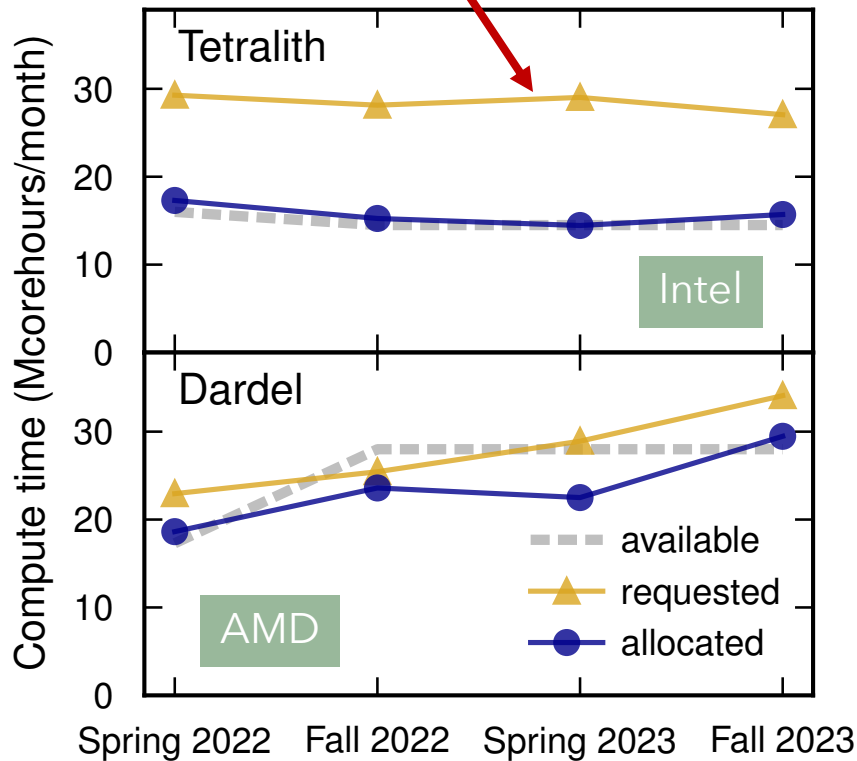
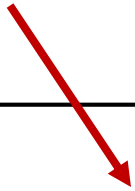
Considered

- **Scientific evaluation**
assessment of application, PI, team, activity report
- **Technical evaluation**
codes to be used, scaling, suitability for resource, estimates of anticipated usage (by code, run type ...)
- Ability to utilize resources *efficiently*

Statistics over calls: NAISS Large 2022-2023

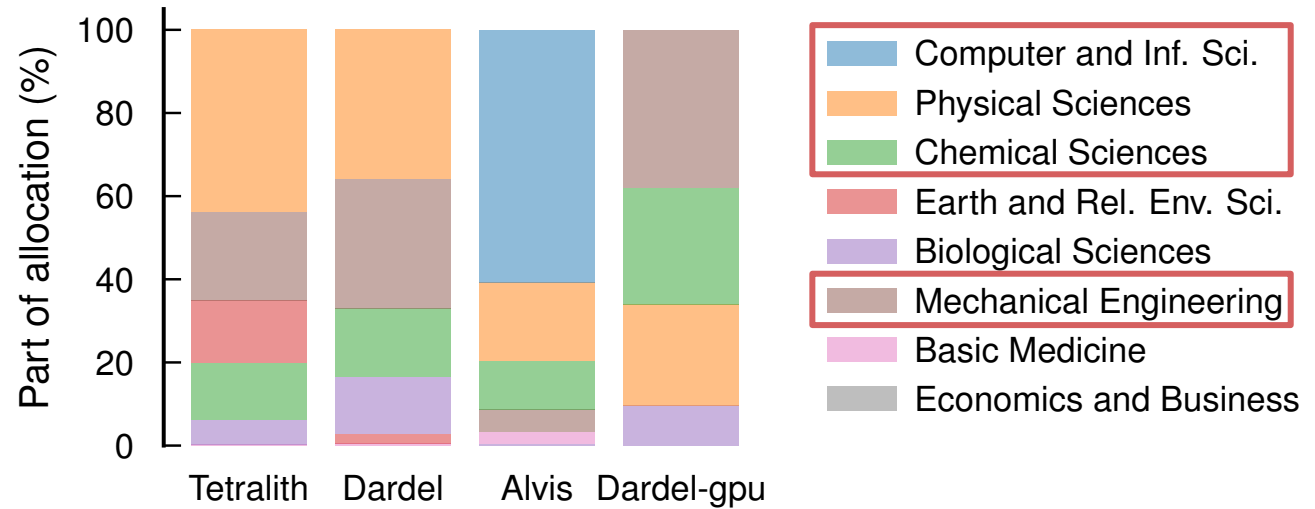
- 2022: 34 + 39 = 73 applications
- 2023: 39 + 37 = 76 applications

Heavy oversubscription

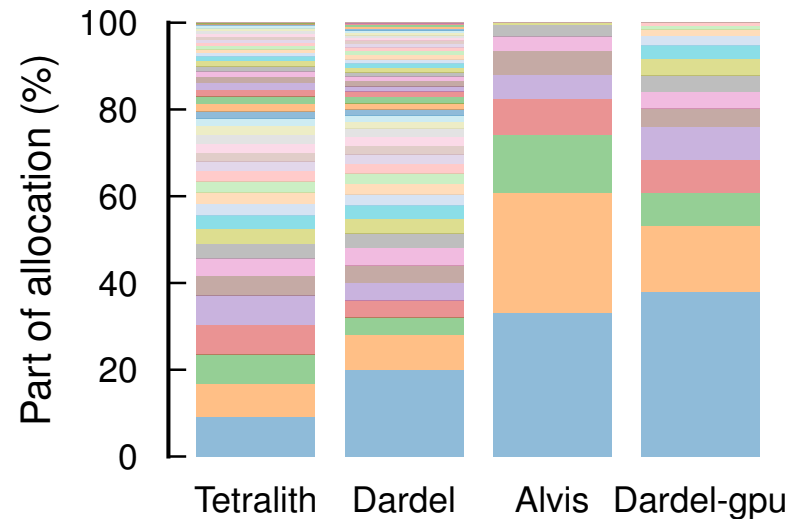


Statistics over calls: NAISS Large 2023

By topic



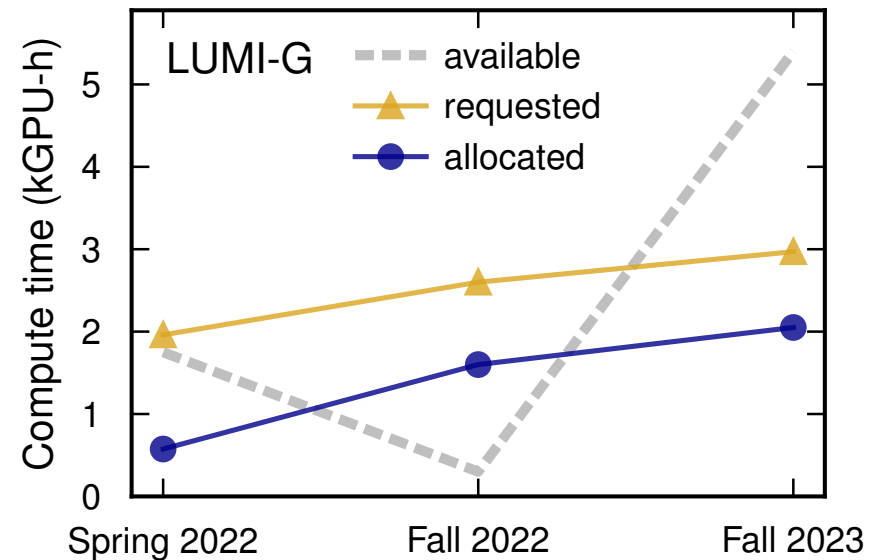
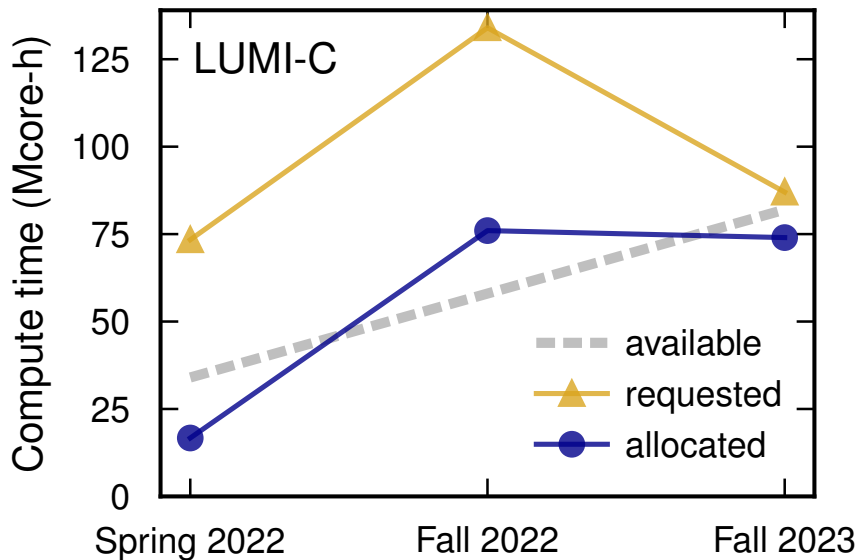
By size



Statistics over calls: LUMI Sweden 2022-2023

AMD resource with focus on GPU computing

- 2022: 13 + 14 = 27 applications
- 2023: 9 applications



- Delays with deployment of GPU partition
- Storage is billed by time, e.g., 1.2 TB x 4 days = 115.2 TB-hours

• LUMI-C is "only" support to LUMI-G!

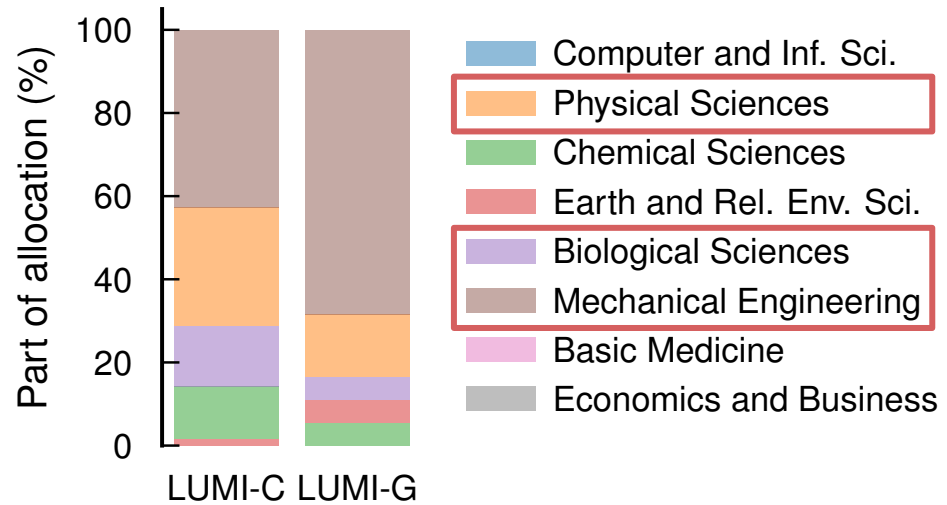
→ LUMI Helpdesk

• To get started

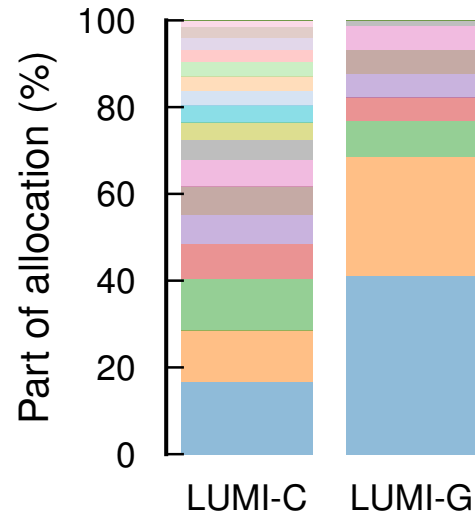
→ LUMI Benchmarking and Development round

Statistics over calls: LUMI Sweden 2022-2023

By topic



By size



Key points

Available calls

- NAISS Large Compute - Spring/Fall
→ allocation per month
- LUMI Sweden - Fall
→ allocation per year (max)
→ possible to contact NAISS and apply for expansion
→ storage in TB-h
→ GPU oriented resource
- (LUMI Benchmark and Development - continuous)

Path to Large

- Demonstrated HPC competence (usually via Medium)
- Activity reports
- Efficient utilization of allocated resources