Accessing the Komondor

Attila Fekete
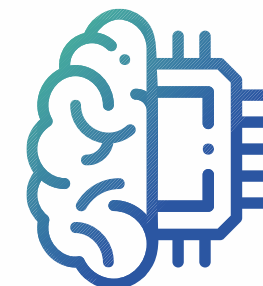
HPC @hu
Kompetencia Központ

The HPC portal

- https://portal.hpc.kifu.hu
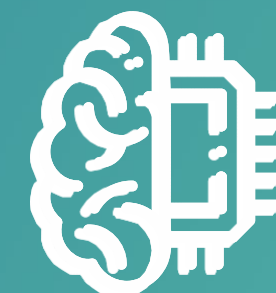
- EduID authentication (contact your host institution's administrator)

- VHOs are valid for 5 months!

- All-around project and user management portal

- From the summer of 2022

- Improved functionality

- Keep your personal data up-to-date (e-mail, phone)

- Check the news, portal & e-mail messages

HPC @hu
Kompetencia Központ

New era in project evaluation

- Handling with few thousand users

- Providing 1st class user experience

- As much automation as it needs to be and not more

- Fully online project management

- Access types: preliminatory, conventional, instant

- Peer-review system

- Online project evaluation/reporting system

- Life cycle following

- From the summer of 2022

HPC @hu
Kompetencia Központ

Types of access

Preparatory access

- Continuous submission

- One per year

- 90 or 180 days length

- No peer review, just technical check

- Limited resources (3 package)

- Mainly for benchmarking

Conventional access

- Coninuous submission

- 4x in a year

- Max. 4 years + 2 x 1 year extension

- Subject of peer review (scientific + technical)
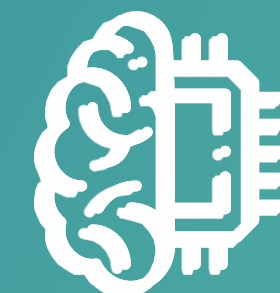
- Large resources

- Mainly for production runs

Types of access

Instant access

- User requests – admin approves

- Any time

- Unlimited length

- No peer review, just technical check

- Unlimited resources

- **Only for special requests** (public health, national security/defense/military)

HPC @hu
Kompetencia Központ
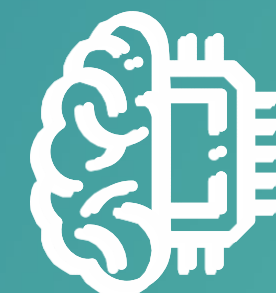
Preparatory access

- Online form

- Detailed scientific description is possible, but not a subject of peer-review

- Max. 90 or 180 days length, only one preparatory project annually!

- Resource packages:

  - 1.) 100 GB storage, 5000 CPUh (CPU-only), 1000 CPUh (GPU-only), max 4 GPU

  - 2.) 250 GB storage, 25000 CPUh (CPU-only), 2500 CPUh (GPU-only), max 4 GPU

  - 3.) 500 GB storage, 50000 CPUh (CPU-only), 5000 CPUh (GPU-only), max 8 GPU

- Conventional access can be requested once closing or finishing the preparatory project

- Mainly for benchmarks, gathering experiences on HPC

HPC @hu
Kompetencia Központ
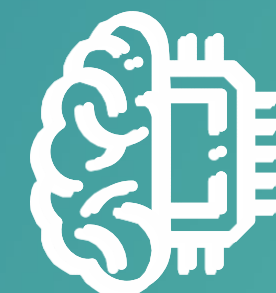
Conventional access I.

- Project requests can be submitted through the year

- Only starts 4 times (3/31, 6/30, 9/31, 12/31)

- Max. length 4 years + 2 x 1 year extension

- 4 sections: General information, Scientific description, Technical description, Summary

- Detailed scientific description:

  - peer-review by external experts of the given scientific field

  - mandatory fields: short description (500 char.), background (1000 char.), detailed

    description (4000 char.), expected outcome (2000 char.)

- Max. 20 points, >12 the scientific review is successful

HPC @hu
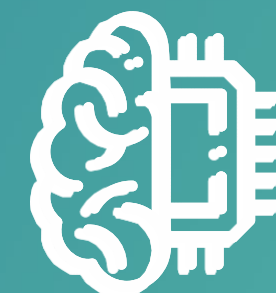
Conventional access II.

- Detailed technical description:

  - Providing details of used softwares toward resource utilization

  - Describing job groups (nr. of job-groups, nr. of jobs in the group, avg. runtimes, avg. resources, avg.)

  - The exact resource is calculated by the site based on the given information.

  - Choosing work-partition and dividing the calculated resources between them.

- Review of technical description carried by the experts of HPC CC)

- Awarded resources can be up to few million CPU (core) hours

- Max. 20 points, >12 the technical review is successful

HPC @hu
Kompetencia Központ
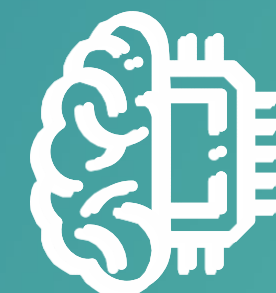
Conventional access III.

- All four sections can be saved and continued later

- The technical review comes after the successful scientific review

- If both review are successful, the PI should download the final form, sign it & upload

- Once the uploaded form is correct the project will start in the next quarter (if the resources are available)

HPC @hu
Kompetencia Központ
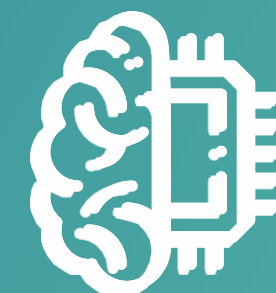
Instant access
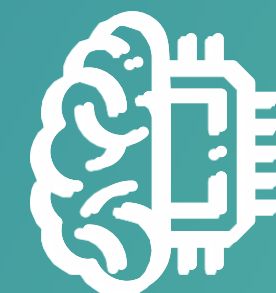
- Serves special purposes

- No need for detailed scientific or technical description

- Not subject of peer-review

- Users are not eligible to use this function unless:

  - Your project needs immediate resource since it serves global/national interest

  - You have awarded resources to our infrastructure via PRACE (we will initiate the access)

- National Agnecies (defense, military, health and so on)

- Fill in & submit, admins will check your data and give immediate permission to resources

HPC @hu
Kompetencia Központ

Who is eligible to request access?

- Students, professors, researchers of any Hungarian college or university
- Employees of member institutes of the Hungarian Academy of Sciences
- Undergraduate and graduate students must have a supervisor
- PhD students can request access individually

HPC @hu
Kompetencia Központ

Take home message

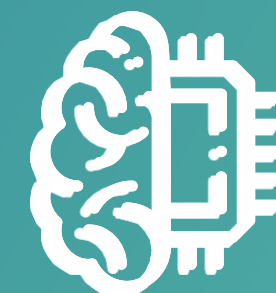- Know what you want:

  - clearly written & goal driven projects

  - reviewers with strong academic/research & HPC experience
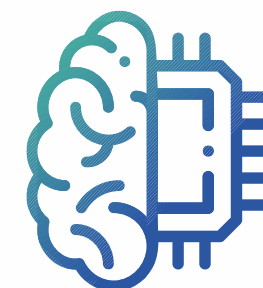
- Prove what you need:

  - importance of running benchmarks

  - knowing your limits gains your experience

- Let us know your results:

  - your results show the quality of our service

  - Acknowledgements, just as you always do. Don't you?

HPC @hu
Kompetenciaközpont

Thanks
for your attention!

HPC @hu
Kompetencia Központ