

The ISC Computational Server

We are currently **test driving** a strategy for mutualizing computational resources within HEI. The current policy is therefore designed to be temporary and will evolve as we understand better the usage patterns and requirements of various users.

The project is expected to have three phases, which are subject to change:

- **Initial phase** (until March 2025): we run a best-effort, priority-less offering. The goal of this phase is to test-drive some of the tools we use (Slurm, Apptainer, etc.), estimate the demand and requirements from users, and collect data on usage patterns, e.g., periods of congestion and overall usage ratio.
- **Expansion phase** (April-July 2025): we introduce priorities based on investments and projects' criticality and we stabilize the toolchain, with an improved documentation and more formal support to the users. We formalize and possibly extend the scope of the offering to more research labs and institutes within HEI.
- **Exploitation** (August 2025-onwards): depending on the success of earlier phases, we introduce service-level agreements (SLA) and a tarification for users to contribute financially to the platform based on their usage patterns.

If you need access, please use the [following form](#) to make a request. Once your request has been received, we will either provide you with access immediately or organize a meeting to discuss any specific requirements you might have.

The following rules apply in this initial phase of the project:

- All users must submit [Apptainer jobs](#) via Slurm. The rationale for this restriction is to ensure we keep visibility on the cluster usage and prevent maxing out cluster resources.
- Users must regularly clean the Apptainer cache using `apptainer cache clean`.
- Users are expected to search for solutions and contribute to the documentation whenever possible. Remember that this is a best-effort service without any guarantee of availability and/or support.
- There is no prioritization: all users are treated equally, irrespective of the criticality of their project and/or their financial investments. This situation is **temporary** and will be addressed during the second phase of the project, where users will be assigned tokens depending on criteria to be approved by the steering committee.

Computational Resources

The available computational resources currently available are composed of

- [The Calypso cluster](#)
- [The Rumba production servers](#)
- [DISCO and ChaCha supercomputers](#)

Calypso

It is currently composed of the following machines :

- 1 DELL R740XD (Master)
- 12 DELL R630 (6 currently active)
- 3 DELL R630 (1 spare in 23N321, storage 1)
- 1 DELL 7920 (in Rumba, currently shutdown)

It can be accessed via a Wireguard VPN.

Rumba

Production servers for Moodle and other ISC services.

Disco & ChaCha

Research servers, equipped with NVIDIA A100 (Disco) and H100 (ChaCha), respectively.

VPS

We have a Virtual Private Server (VPS) hosted at **XXX**.

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