

Getting resources for scientific computing

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Brescia, 21 marzo 2018



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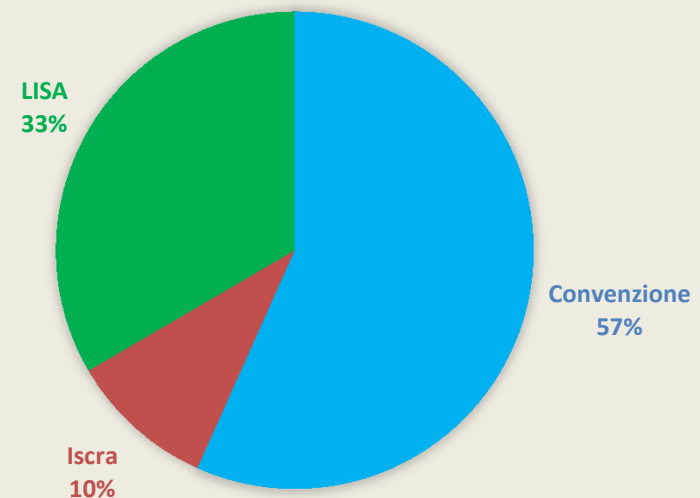
SuperComputing Applications and Innovation

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Agreement with University of Brescia 2016-2017

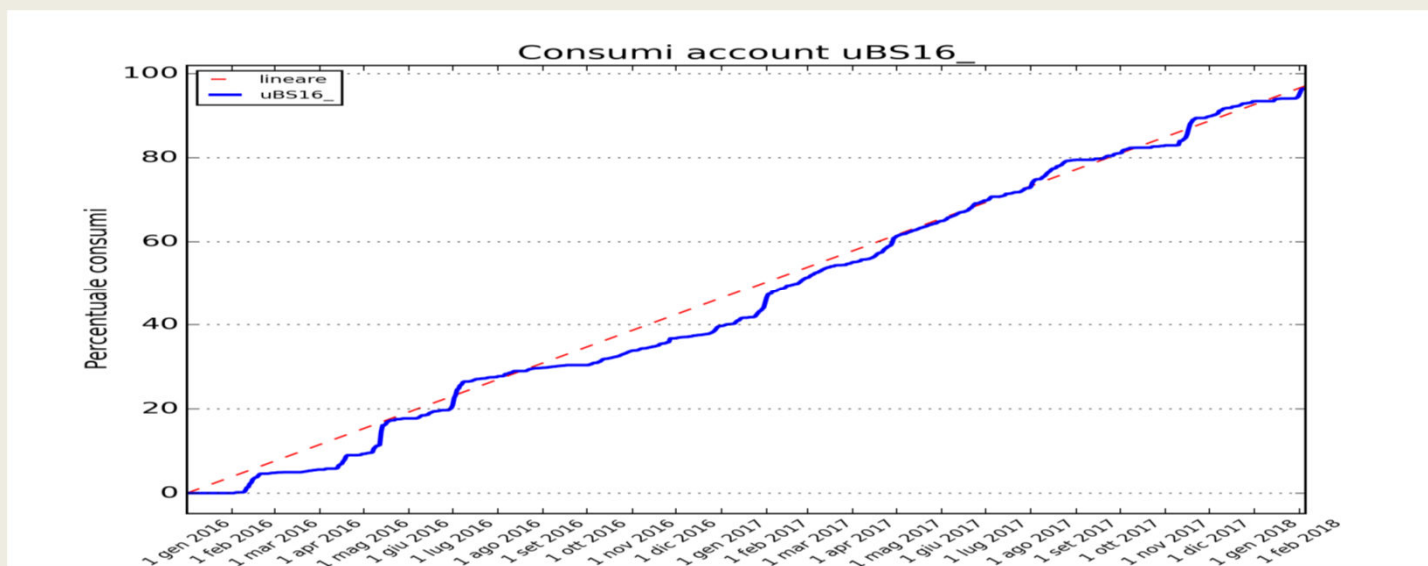
From January 2016
260.000 std-corehours.
On end 2017 more than
240.280 std-corehours
consumed.
Extended to Feb 2018

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Agreement with University of Brescia 2016-2017

Resources have been used up quite regularly



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350.000 std_corehours on MARCONI A1 (bdw) and A2 (knl)

Actually 2 Mcorehours on average

+

90 TB DRES (online) and 80 TB TAPE.

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Ask for resources through the request form on the
University of Brescia web site

<https://www.unibs.it/servizi-online/servizi-line/altri-servizi-informatici/servizio-di-supercalcolo>

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Ask for resources

You have to submit:

- A brief description of project
- Name of collaborators
- Start/End of project
- Computing and storage resources

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Project activation within days but...

registration to CINECA UserDB is mandatory (if not already registered) <https://userdb.hpc.cineca.it/>

once you are associated to an active project you can ask for HPC access (if you do not have a username already)

an email will communicate access keywords



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Principal Investigators of Active Projects or
Storage Areas can add collaborators through
UserDB

Storage Areas may be associated to Projects also

More on projects

The use of HPC resources is based on projects (Account_no)

Each project is defined on the basis of:

- Budget (how many standard core-hours)
- Validity (from – to date)
- PI (Principal Investigator)
- Collaborators
- Host(s) (one or more systems where the budget can be used)

More on projects

The project is active as far as the budget is not exhausted and in validity period.

PI and collaborators of a project can concurrently use the budget for batch processing.

The PI can add collaborators to the project

Each user gets a permanent username (“personal username”) that enables access.

More on projects

Access is normally done via ssh protocol giving the username/passwd information

All HPC systems share (if applicable) the same username/passwd information.

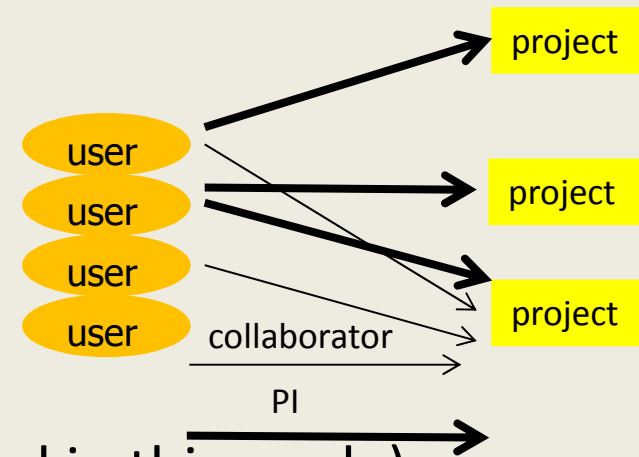
The username is strictly personal (and is life-long standing).

Please do not share it with collaborators or students.

More on projects

Your username can be associated or not to projects, either as PI or Collaborator.

The username enables you to access the system and work in interactive mode for compiling, editing, data moving (only a max of 10 min cpu time is allowed in this mode)



The real “hard production” has to be done using batch mode.

You need a valid project in order to access this mode.

How to get username/project

1. Register yourself to our UserDB (<https://userdb.hpc.cineca.it/>)
... just once in your life!
Be ready to enter your CF (if italians) and your personal info
Be ready to upload your ID card (or passport) - ... both sides!
2. Get the association to a project
Ask the PI of a valid project to appoint you as a collaborator
or take part to a peer review selection, ...

How to get username/project

3. Finalise your access request (in UserDB portal)

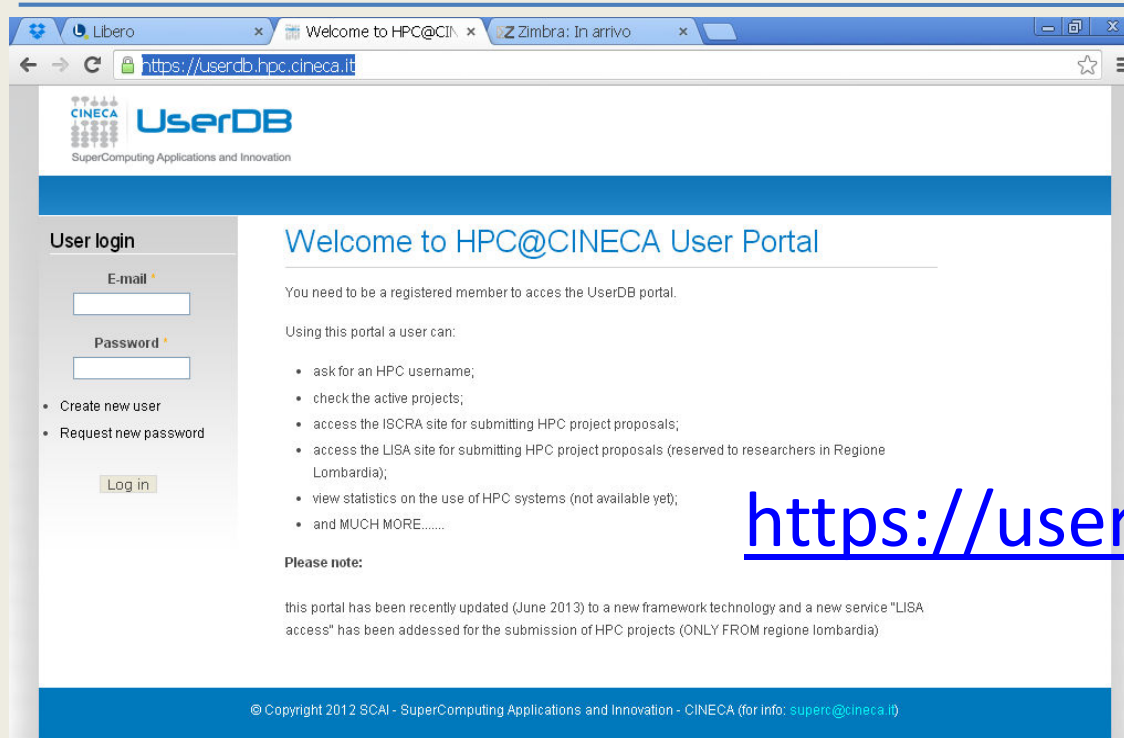
... just once in your life!

In the UserDB environment, follow the “HPC access” link and accomplish the given instructions

In few hours an automatic mail will inform you about the access granting

In half a day your username will be available on the HPC system and/or the connection with the project(s) activated.

How to get username/project



The screenshot shows a web browser window with the URL <https://userdb.hpc.cineca.it>. The page title is "UserDB" and the subtitle is "SuperComputing Applications and Innovation". The main heading is "Welcome to HPC@CINECA User Portal". Below the heading, there is a message: "You need to be a registered member to access the UserDB portal." A list of services is provided: "Using this portal a user can:" followed by a bulleted list: "ask for an HPC username;", "check the active projects;", "access the ISCRA site for submitting HPC project proposals;", "access the LISA site for submitting HPC project proposals (reserved to researchers in Regione Lombardia);", "view statistics on the use of HPC systems (not available yet);", and "and MUCH MORE.....". A "Please note:" section states: "this portal has been recently updated (June 2013) to a new framework technology and a new service 'LISA access' has been addressed for the submission of HPC projects (ONLY FROM regione lombardia)". At the bottom, there is a copyright notice: "© Copyright 2012 SCAI - SuperComputing Applications and Innovation - CINECA (for info: superc@cineca.it)".

<https://userdb.hpc.cineca.it/>



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How to get username/project

- Username
 - Personal (erossi00, mcremone)
 - For access and interactive use
 - It will be closed (but not cancelled) one year after any valid projects
- Project = Account_no
 - Budget for the job batch executions
 - validity, budget, hosts, PI, collaborators
 - “saldo -b” gives you the list of your projects