Presentation of the computing facilities at CERMICS

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Overview

• Most of the projects require computational resources.

• The following pages should contain most information you ask for
  
• [http://cermics.enpc.fr/stoltz/cluster/Cluster_Cermics.html](http://cermics.enpc.fr/stoltz/cluster/Cluster_Cermics.html)


• Contact me should you have any question concerning the CERMICS cluster.

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‘Special event’

- 'There will be a COMPLETE electricity shutdown 2-5 August 2013. You should be able to use your computer again on the morning of Monday 5 August.'
Access to the cluster

- Come to me to get the passwords

**CODESTOCH**: Vincent Moutoussamy  
**COMPRESS**: Olivier Zahm  
**EPIDEMIO-GD**: Brice SAMEGNI KEPEGNOU  
**KINETIC**: David Aristoff  
**MECALEA**: Laurent Mertz  
**METAERO**: Abdellah Chkifa  
**REDVAR**: François Bachoc  
**SEDIMENT**: Philippe Ung  
**SENSICAT**: Nicolas Guillot  
**SPDESAMP**: Charles-Edouard Bréhier  
**TOPOGRAPH**: Morgan Abily  
**TURBULENT**: Rémi Sainct  
**Walk on MARS**: Hélène Leman
A few recommendations

• *Do not launch computations on clustern01*!

• Some people use *a lot* of RAM.
  => do not occupy the few clusters (06, 07 mainly) with a lot of RAM unless you need them!

• Some people need to store large amount of data on hard drives.
  => A large amount of storage is available locally on the /libre directory *of each node*. Use this directory to save some room on your /home directory and to reduce the communication times.
Top, ssh key

- To monitor jobs, use the command ‘top’.

- A multitop.py script can be copied from the /home of G. Stoltz to see the jobs running on all the nodes
  
  ```
  cp /home/stoltz/multitop.py ~
  ```

- In order not to retype your password, you will need to generate an ssh key to facilitate connexion between nodes

- Commande: (i) ssh-keygen -t rsa and (ii) copy the file ".ssh/id_rsa.pub" to ".ssh/authorized_keys" in your home directory on the cluster
  
  ```
  ssh-keygen -t rsa
  cp .ssh/id_rsa.pub .ssh/authorized_keys
  ```