Presentation of the computing facilities at CERMICS

William Minvielle

Cermics, Ecole des Ponts

william.minvielle@cermics.enpc.fr
http://cermics.enpc.fr/~minvielw

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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://www-ext.enpc.fr/dit/supdit/support.linux/ssh/

- 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.

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Access to the cluster

- Come to me to get the passwords

CODESTOCH: Vincent Moutoussamy
COMPRESS: Olivier Zahm
EPIDEMIO-GD: Brice SAMEGNI KEPGNOU
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

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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.

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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

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