

Team Meeting

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University Of Luxembourg

2 novembre 2013

Plan

- 1 Introduction
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- 3 Other services
- 4 Conclusion

Introduction

Introduction

Training

- DUT in Computer Science
- Professional Bachelor Degree in systems, networks and applications administration

Experiences

- 2007, VersusMind : web development
- 2009, Faurecia : administration of a computing cluster
- 2011, Tutored Project : experiments and comparison of cloud computing solutions on Grid'5000
- 2011, WHD-RS : web hosting
- 2011 -, University of Luxembourg : system administration !

My role

Technical Collaborator

- Work under the supervision of Sebastien Varrette
- HPC system administration
- Manage CSC services (gforge, backup, VMs, ldap, etc)
- User support



HPC

New website !

- <http://hpc.uni.lu>

HPC @ Uni.lu
Chaos, Gaia, Nyx and Granduc clusters

Get Updates: By RSS On Twitter

Systems - For Users - Live Status - Big News - About - Search

Welcome to the HPC @ Uni.lu platform !

This is the official website of HPC @ Uni.lu platform, which provides information about the computing clusters operated by the University of Luxembourg and the associated computing team.

The country that out-computes will be the one that out-compares.
— The Cloud on Cloud@uni.lu

Server room @ Belval
This picture corresponds to the server rooms in the LCEE building @ End of, looking for the GPU cluster. The violet lights come from the HPC main entrance.

Recent Posts

- [Stacking 360GB InfiniBand on CentOS](#)
- [New 10 HPC Website](#)
- [Generating Debian Packages under 3.2 Fixed to Linux 2.4](#)
- [10 HPC in 11 Minutes](#)
- [10 HPC in 11 Minutes](#)

GitHub Repos

- vividis-bootstrap
- vividis-erw
- dotfiles
- ganglia_infriband_module
- modules-check
- launcher-scripts
- UserDoc

Tweets [Follow @UHPC](#)

UHPC-Belval 15 015
Test of validation nodes and configuration of the (HPC) (intermediary.com) portal in progress.

HPC Guru 20 360
HPC Guru @UHPC, this @UHPC User-only has a useful calendar for conferences, ...

[Contact Us](#) [Platform Status](#)

HPC

New hardware (2012-2013)

Chaos :

- Infiniband QDR!
- 16x Dell nodes
- 16x HP nodes

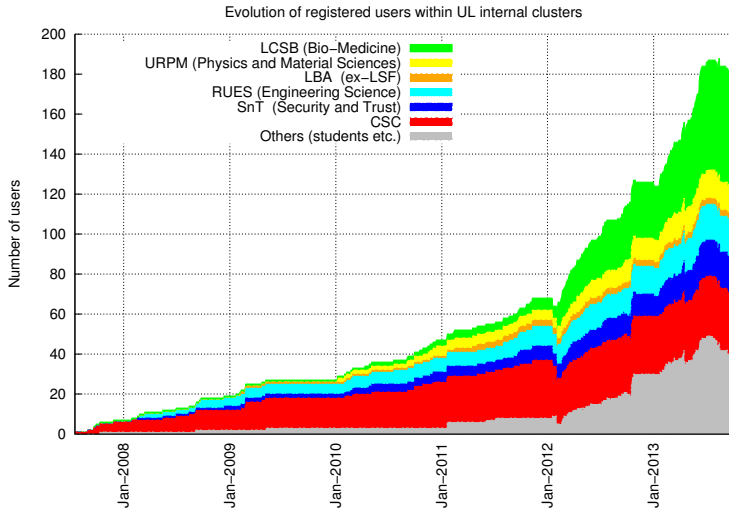
Gaia :

- 10x Bull B505 (2xTesla M2090)
- Bull BCS System (160 cores, 1TB memory)
- Dell R820 (32 cores, 1TB memory)

Viridis :

- Experimental ARM hardware
- 2x systems, 24 Calxeda cards, 96 nodes





HPC - Grid'5000

- Experimental grid for computer science research
- <http://grid5000.fr>
- 10 sites (- Bordeaux, + Nantes), 2218 cpus, 7896 cores
- Granduc cluster, 22 nodes, 44 cpus, 176 cores
- **New Petitprince cluster, 16 nodes, 32 cpus, 192 cores**

Features

- Kadeploy, system deployment & personalized environments
- Kavlan, network isolation for your experiments
- Storage5k, reservation of storage space (in progress)



Other services

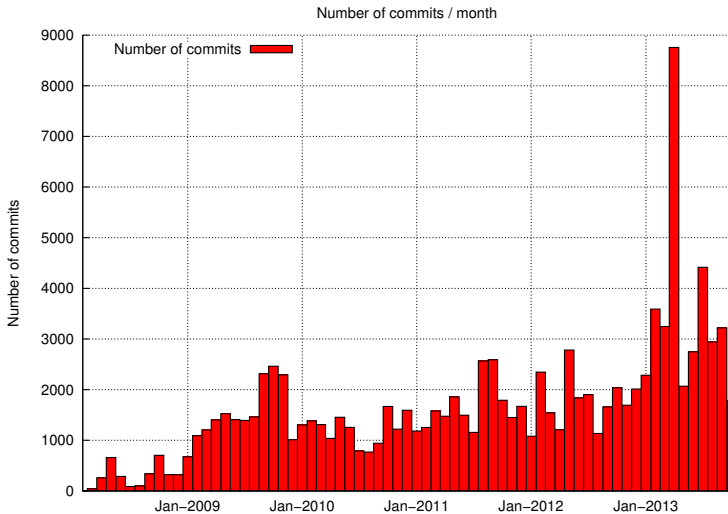


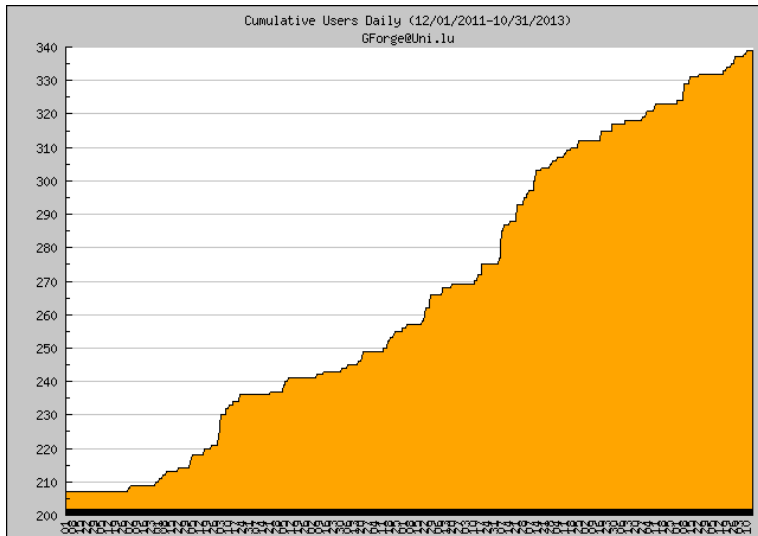
ejabberd



Collaborative project management platform

- source code repositories (Git, Subversion)
- static web sites
- mailing lists
- bug tracker





Other services

Jabber server

- Instant messaging
- Text conference rooms (hpc-users)
- im.csc.uni.lu / use your HPC credentials

Etherpad

- Collaborative and real-time text editor
- <https://im.csc.uni.lu>

Stackedit

- Markdown editor
- <https://hpc.uni.lu/stackedit>

Conclusion

- More HPC resources
- New Petitprince cluster integrated in G5K
- New HPC website
- New services
- And more coming soon !

Thank you for your attention !