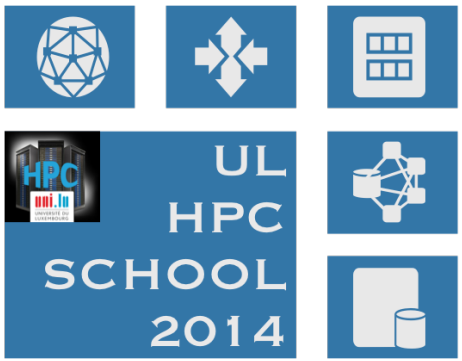


UL HPC School 2014

UL HPC Management Team

University of Luxembourg, Luxembourg

uni.lu
UNIVERSITÉ DU LUXEMBOURG

Welcome to the UL HPC School

- **First edition** be indulgent :)
  - ↪ Ambition: yearly event
  - ↪ 66 registered participant
  - ↪ 6 distinct speakers
    - supported by some of the leading UL computational scientists
  - ↪ Open and public access – content on GitHub

UL HPC School Overview

- **2 keynotes** (including top users presentations)
- **8 practical sessions**
  - ↪ Focusing on observed daily usage of the platform
  - ↪ basics, sequential / MPI jobs, Matlab, R, parallel debuggers (TotalView, Allinea DDT)

Agenda - Day 1 (May 6th)

May 6th	By	Title	Location
9h00-9H10	S. Varrette	Opening	P. Feidert
9h10-10h15	S. Varrette	*Keynote*: HPC platforms @ UL: Overview and Usage	P. Feidert
10h15-10h30		**Coffee break**	P. Feidert
10h30-11h15	S. Varrette	*PS1*: Getting Started (ssh, scp, rsync, oar, modules, builds)	P. Feidert
11h15-12h30	H. Cartiaux	*PS2*: HPC workflow with sequential jobs (C,python,java)	P. Feidert
12h30-13h30		**LUNCH**	
13h30-14h30	S. Varrette	*PS3*: HPC workflow with MPI jobs. Ex: OSU MB/HPL	P. Feidert
14h30-16h30	S. Grimonet	*PS4*: Direct, Reverse and parallel Memory debugging with TotalView	P. Feidert
16h30-17h30		Roguewave Open discussion and Day 1 Closing	P. Feidert

Agenda - Day 2 (May 7th)

May 7th	By	Title	Location
9h30-10h00	S.Varrette	*Keynote*: Effective storage and data management	P. Feidert
10h00-10h30		*Keynote*: Experience reports from top users	P. Feidert
10h30-10h45		**Coffee break**	P. Feidert
10h45-11h45	V.Plugaru	*PS5*: Using Matlab on the UL HPC Platform	P. Feidert
11h45-12h30	J. Emeras	*PS6*: Using R on the UL HPC Platform	P. Feidert
12h30-13h30		**LUNCH**	
13h30-14h30	V.Plugaru	*PS7*: Bio-informatic softwares on the UL HPC Platform	P. Feidert
14h30-16h30	P. Wohlschlegel	*PS8*: Unified profiling and debugging with Allinea	P. Feidert
16h30-17h30		Allinea Open discussion and Day 2 Closing	P. Feidert

http://hpc.uni.lu/hpc-school

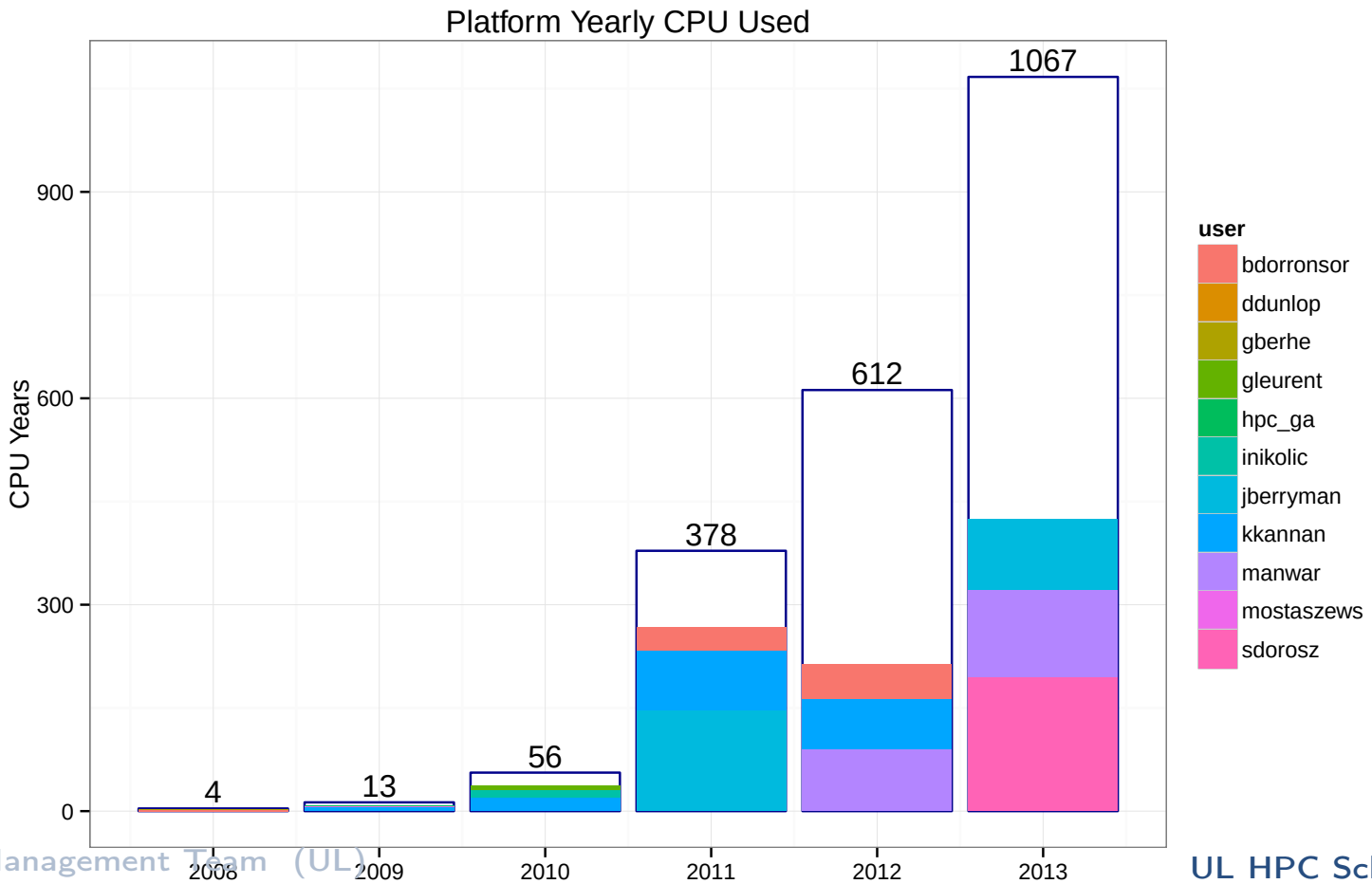
Github Tutorials: https://github.com/ULHPC/tutorials

UL HPC website https://hpc.uni.lu

UNIVERSITÉ DU LUXEMBOURG

Top 2013 User reports

- Total **Asked** resources: **5426 years**
- Total **Used** resources: **1067 years**



Top 2013 User reports

	login	total_asked	total_used	CPUHour used
1	sdorosz	9709174185	6148413886	0195 years 307 days 04:44:10
2	manwar	13959518400	4016640130	0128 years 105 days 21:21:34
3	jberryman	8573504004	3241265570	0103 years 262 days 15:32:14
4	ekalesaki	8459145012	2361077982	0075 years 301 days 06:59:06
5	jmuszynski	19900143685	1956299480	0062 years 364 days 08:30:44
6	aolteanu	7905085200	1745973682	0056 years 122 days 00:40:46
7	ahunegnaw	4360286897	1553142135	0050 years 081 days 04:21:39
8	golivares	5618160000	1147204753	0037 years 130 days 19:58:37
9	vsatagopam	3249313260	871469440	0028 years 227 days 10:50:04
10	siturriaga	2401056000	860787580	0028 years 103 days 19:39:04
11	bdorronsor	12562085920	776484502	0025 years 223 days 02:07:46
12	sjafarneja	3338095620	680219654	0022 years 204 days 21:53:38
13	mmichael	1123605822	625350123	0020 years 300 days 20:21:27
14	snielsen	2219393548	570838898	0019 years 034 days 22:21:02
15	fpinel	1209427200	491600541	0016 years 213 days 19:41:45

```
## Function to convert cpuhour (in s) into a readable time formating
getTime <- function(x) {
  str = format(as.POSIXct('0001-01-01 00:00:00') + x, "%Y years %j days %H:%M:%S")
  return ( str )
}
```