

DIRAC Tutorial conclusions

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DIRAC Project architecture and capabilities

The basics of job submission

- Monitoring

- Getting results

More advanced job submission

- Multiple jobs

- Jobs with input and output data in the grid

Basic data manipulation tools

- Uploading, downloading, replicating files

- Browsing data in a catalog

- Managing user metadata

Using various DIRAC interfaces

- Web Portal, command line tools, COMDIRAC

This is just a starting point

There are many more things that you can do with DIRAC

Data management operations

- Massive data replication across the grid

- Automation of the data operations

- Defining and working with large datasets

Massive data production

- Automatic job submission

- Using complicated workflows

This is just a starting point

Using various computing resources

Grids, clouds, desktop grid resources

Using asynchronous operations

Long lasting operations with retries on failures

Using Python API for all the operations

Programming new commands, services, agents

Using language neutral interfaces

RESTful interface

You have learnt enough to start using grid computing resources for your practical tasks

In case of problems or questions visit the DIRAC project site at <http://diracgrid.org>:

Use the user Forum to ask questions

The DIRAC experts will still be available for help

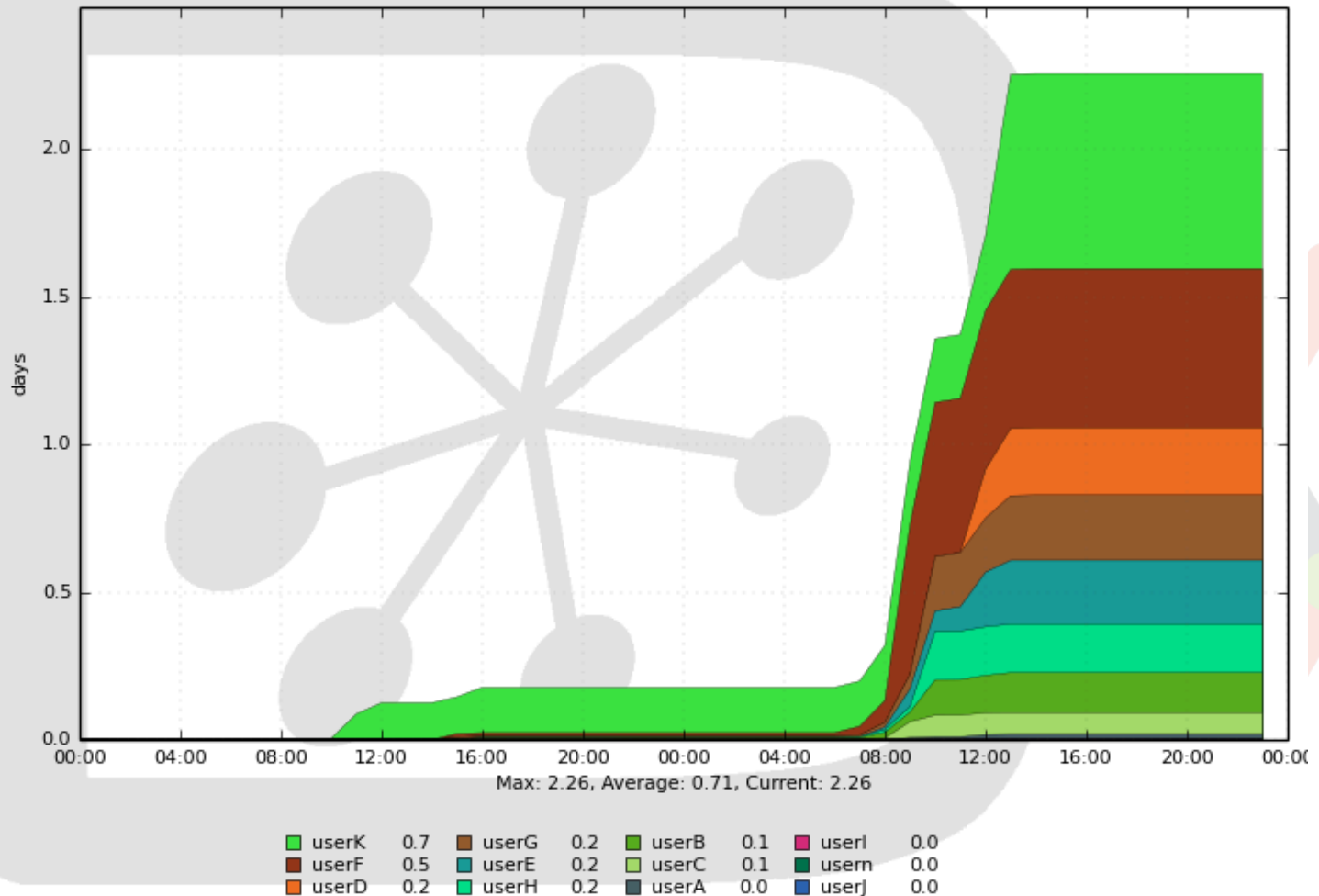
The installation at ***dirac.france-grilles*** will continue

Do not hesitate to come back and try it with your real applications

We hope that you have enjoyed the course and are ready now for even more exciting work on the grids !

CPU used by User

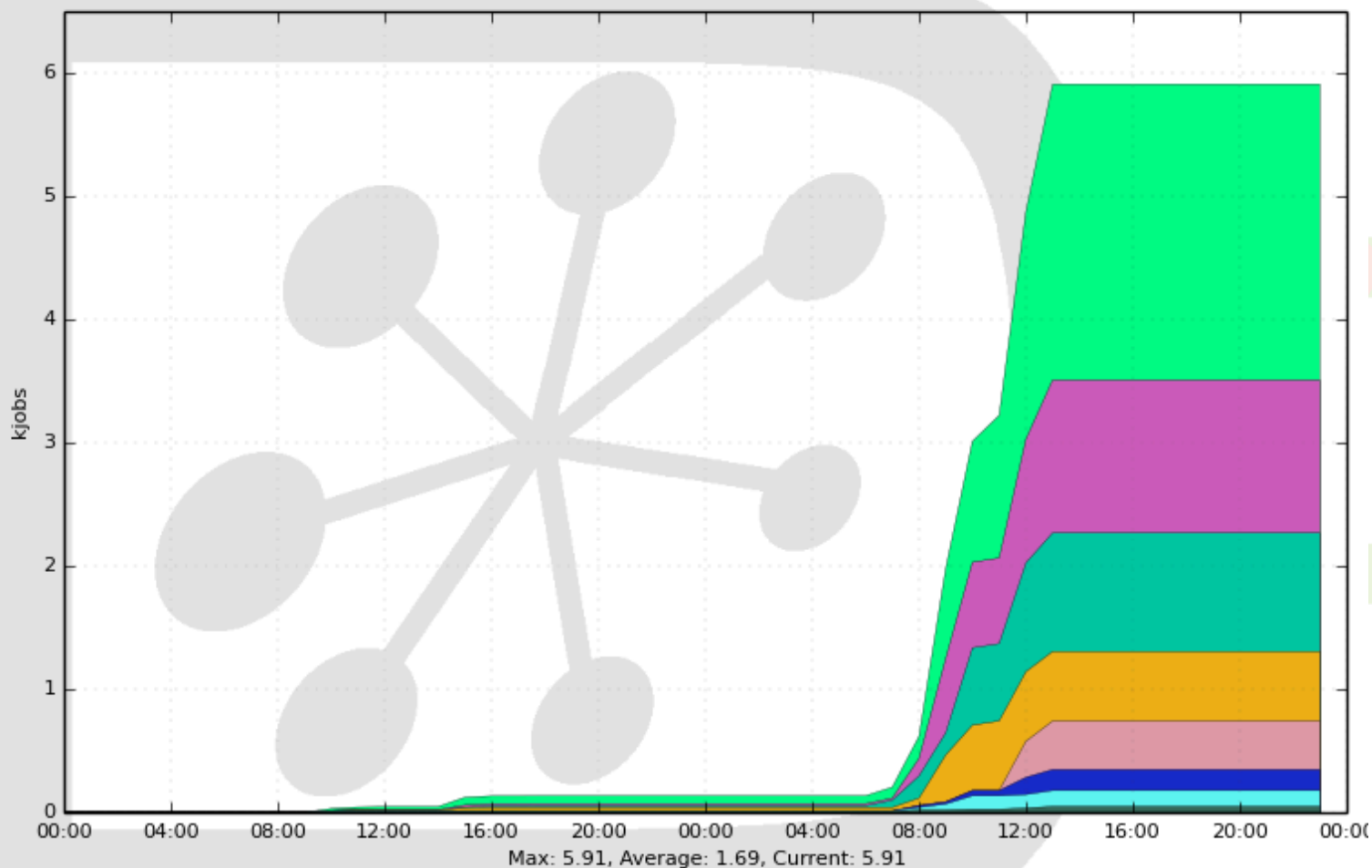
48 Hours from 2015-06-25 00:00 to 2015-06-27 00:00 UTC



Generated on 2015-06-26 14:01:12 UTC

Cumulative Jobs by Site

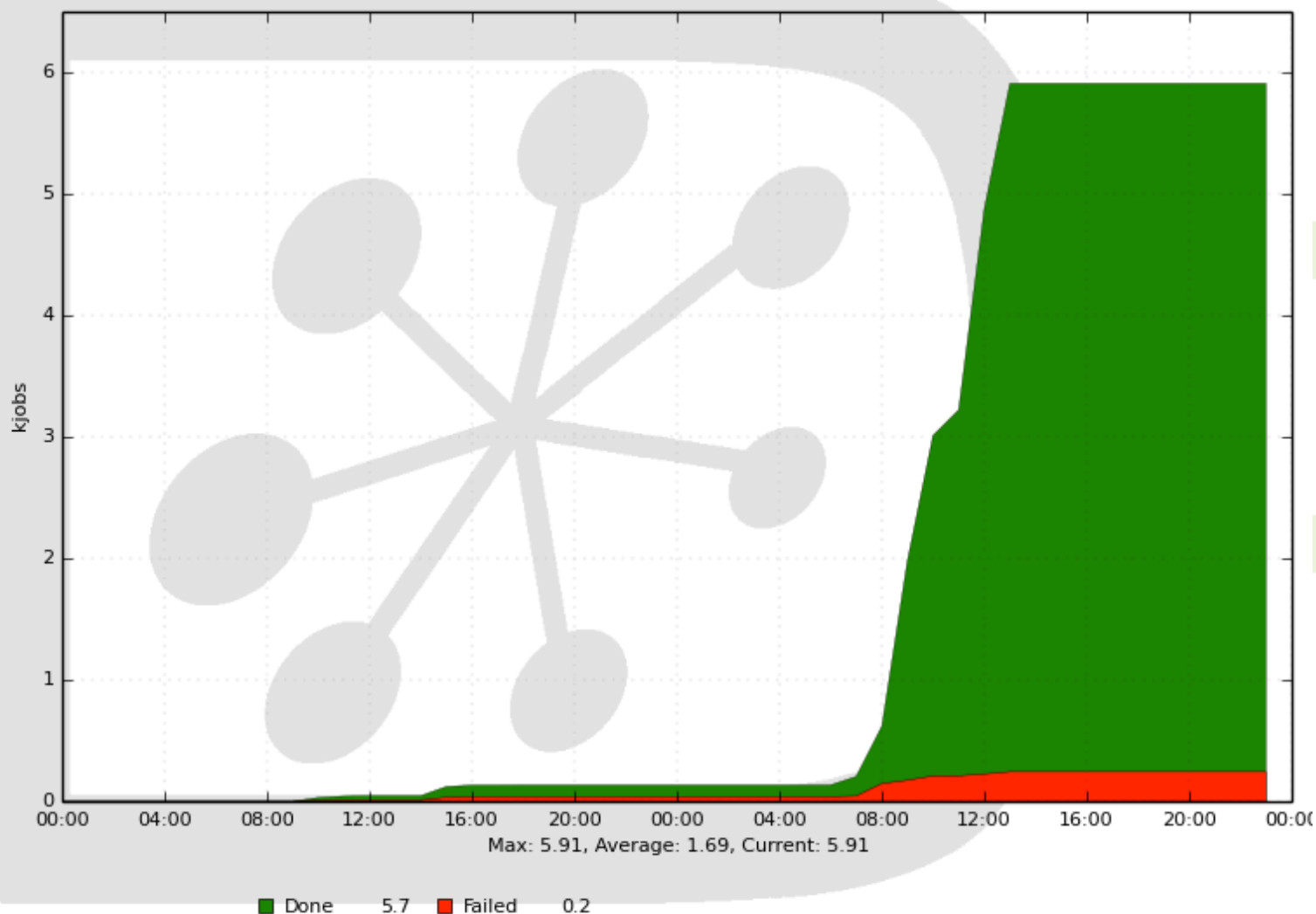
48 Hours from 2015-06-25 00:00 to 2015-06-27 00:00 UTC



LCG.CC.fr	2.4	LCG.IPNL.fr	1.0	LCG.LPSC.fr	0.4	LCG.IPN.fr	0.1
LCG.DATAGRID.fr	1.2	LCG.M3PEC.fr	0.6	LCG.OBSPM.fr	0.2	LCG.IPGR.fr	0.0

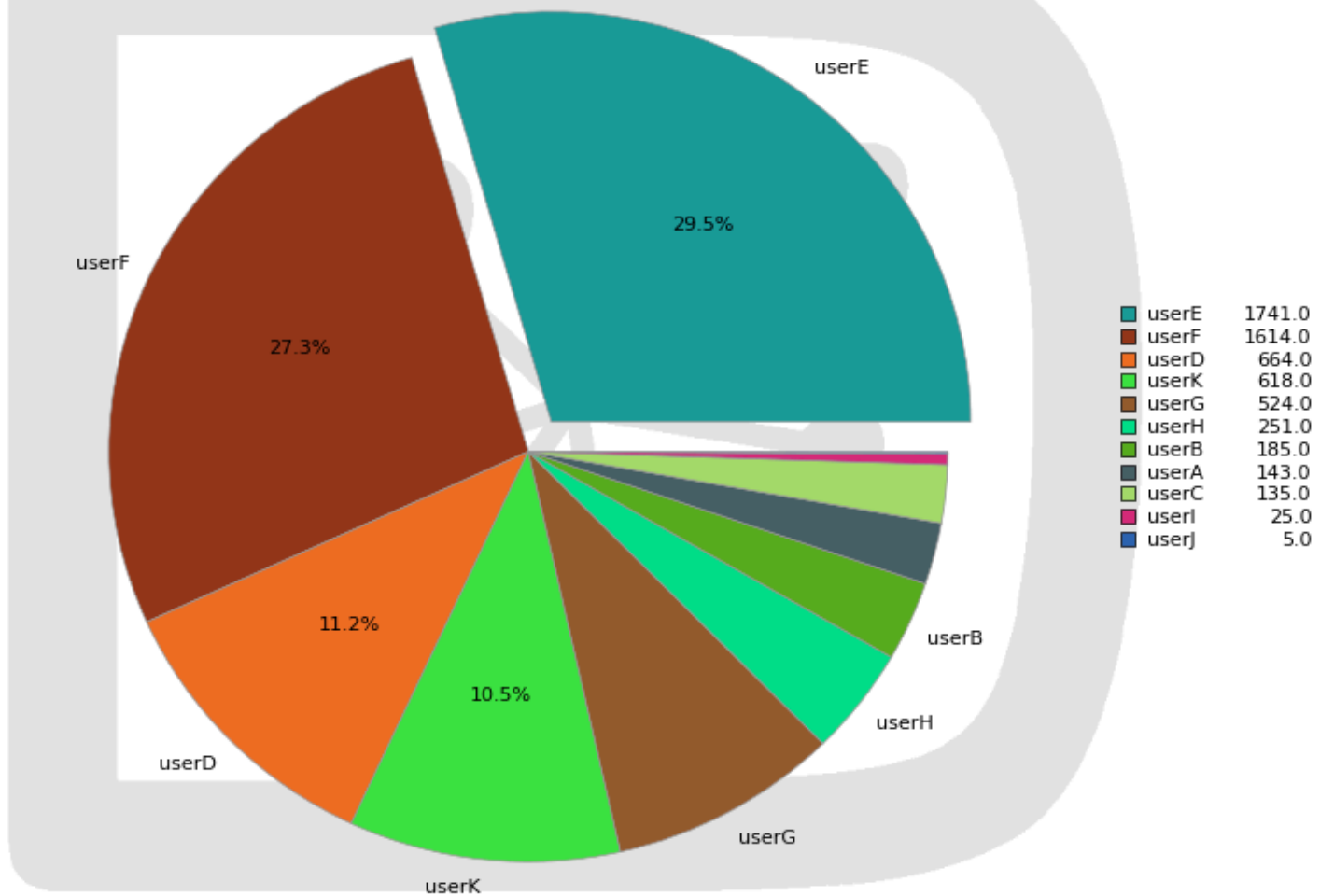
Cumulative Jobs by FinalMajorStatus

48 Hours from 2015-06-25 00:00 to 2015-06-27 00:00 UTC



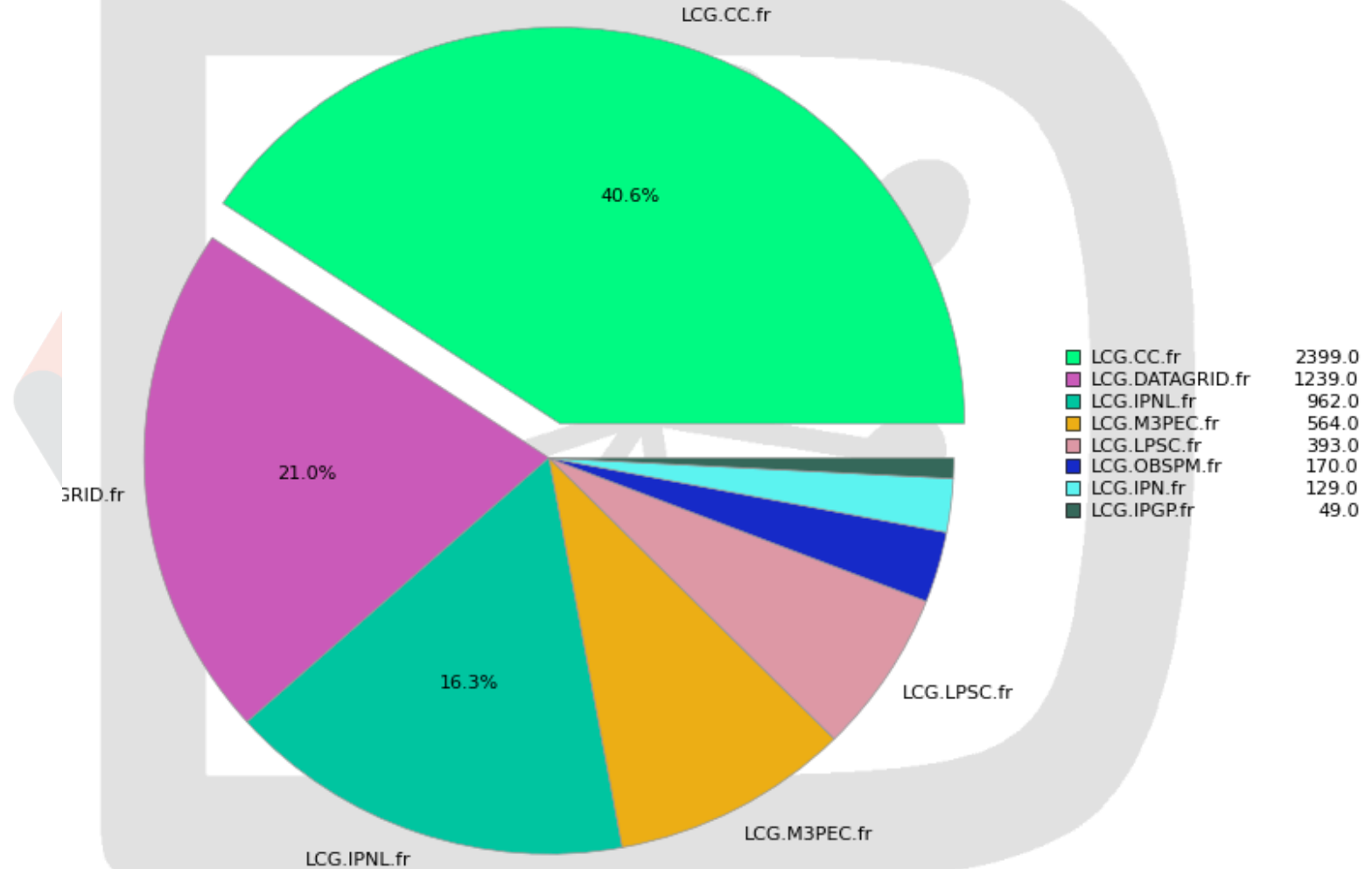
Total Number of Jobs by User

48 Hours from 2015-06-25 00:00 to 2015-06-27 00:00 UTC



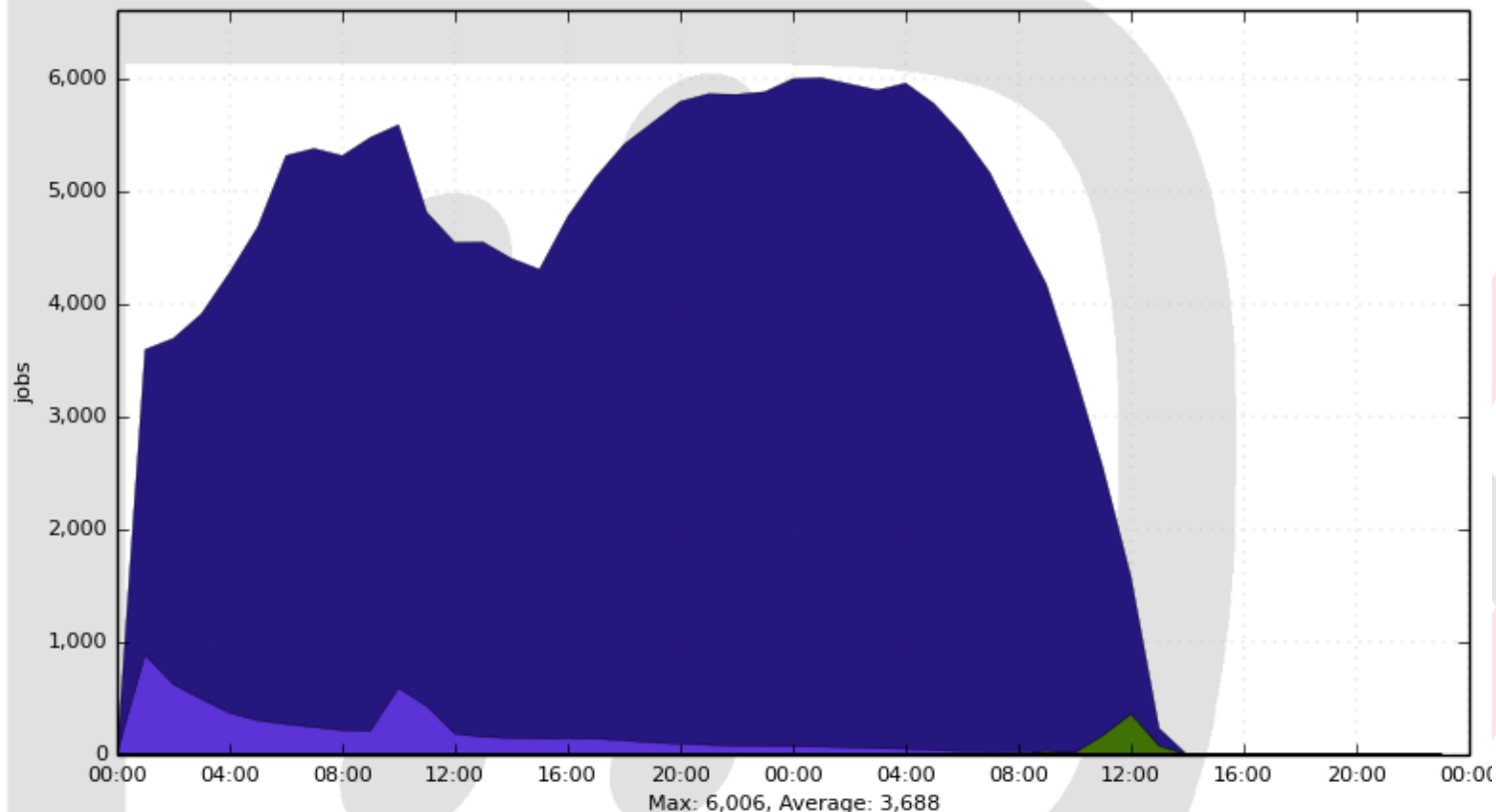
Total Number of Jobs by Site

48 Hours from 2015-06-25 00:00 to 2015-06-27 00:00 UTC



Running jobs by User

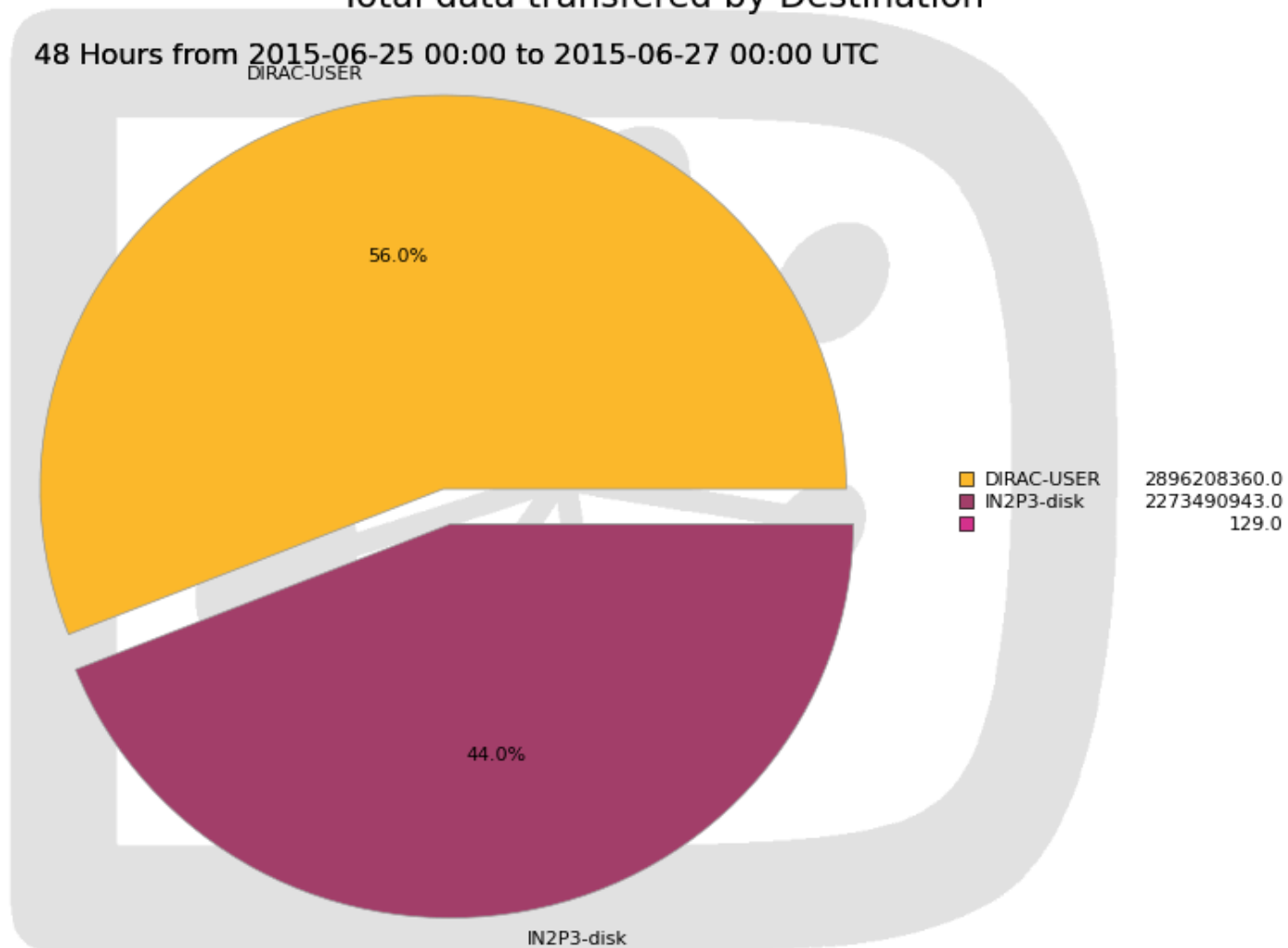
48 Hours from 2015-06-25 00:00 to 2015-06-27 00:00 UTC



clepers	95.9%	userK	0.0%	userC	0.0%	usern	0.0%
creatis	3.7%	userD	0.0%	tilquin	0.0%	vhamar	0.0%
ngbusca	0.3%	userE	0.0%	acoron	0.0%	atsareg	0.0%
paurel	0.0%	userG	0.0%	userA	0.0%	userj	0.0%
zimmer	0.0%	userH	0.0%	gmathieu	0.0%		
userF	0.0%	userB	0.0%	userI	0.0%		

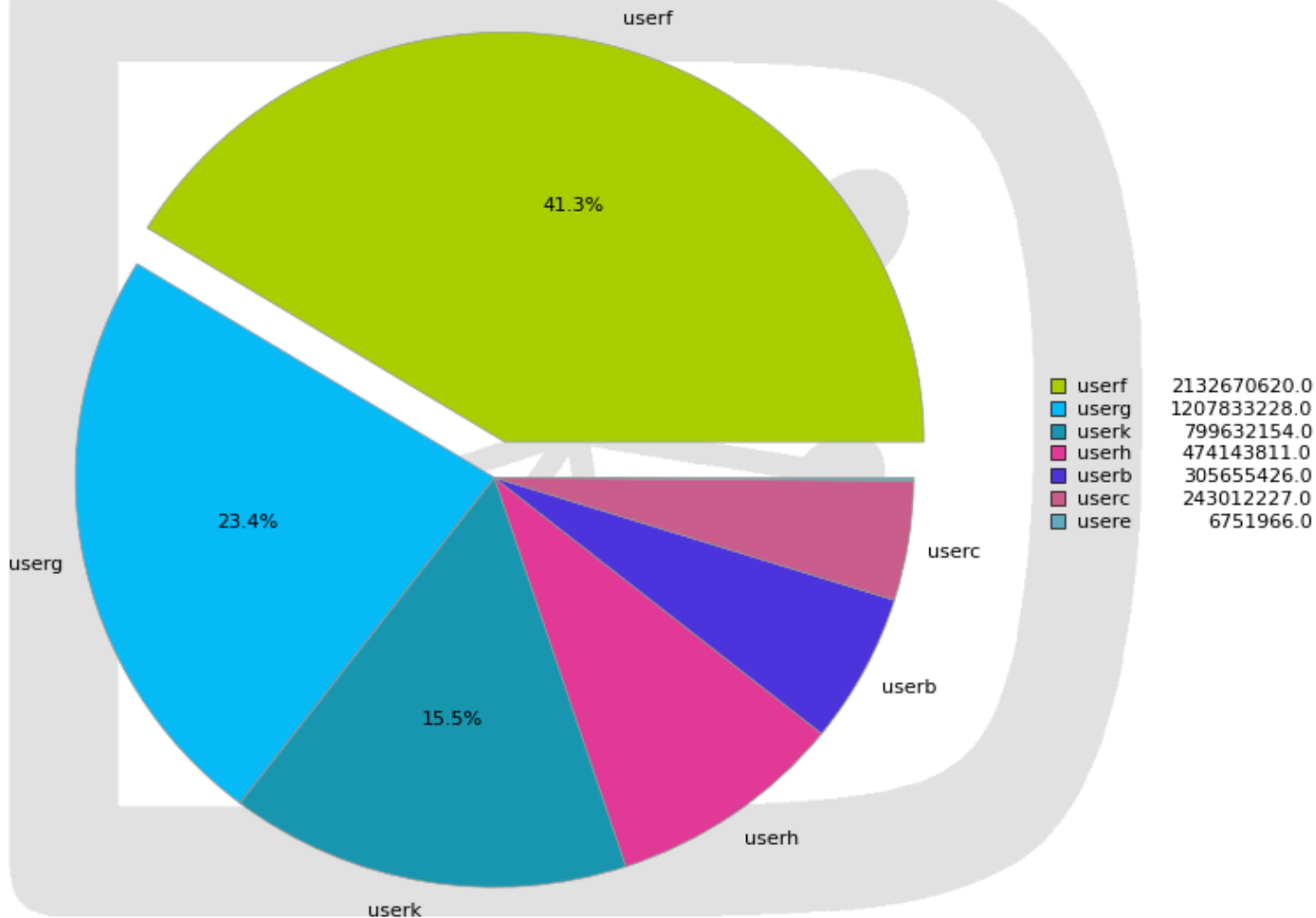
Total data transfered by Destination

48 Hours from 2015-06-25 00:00 to 2015-06-27 00:00 UTC



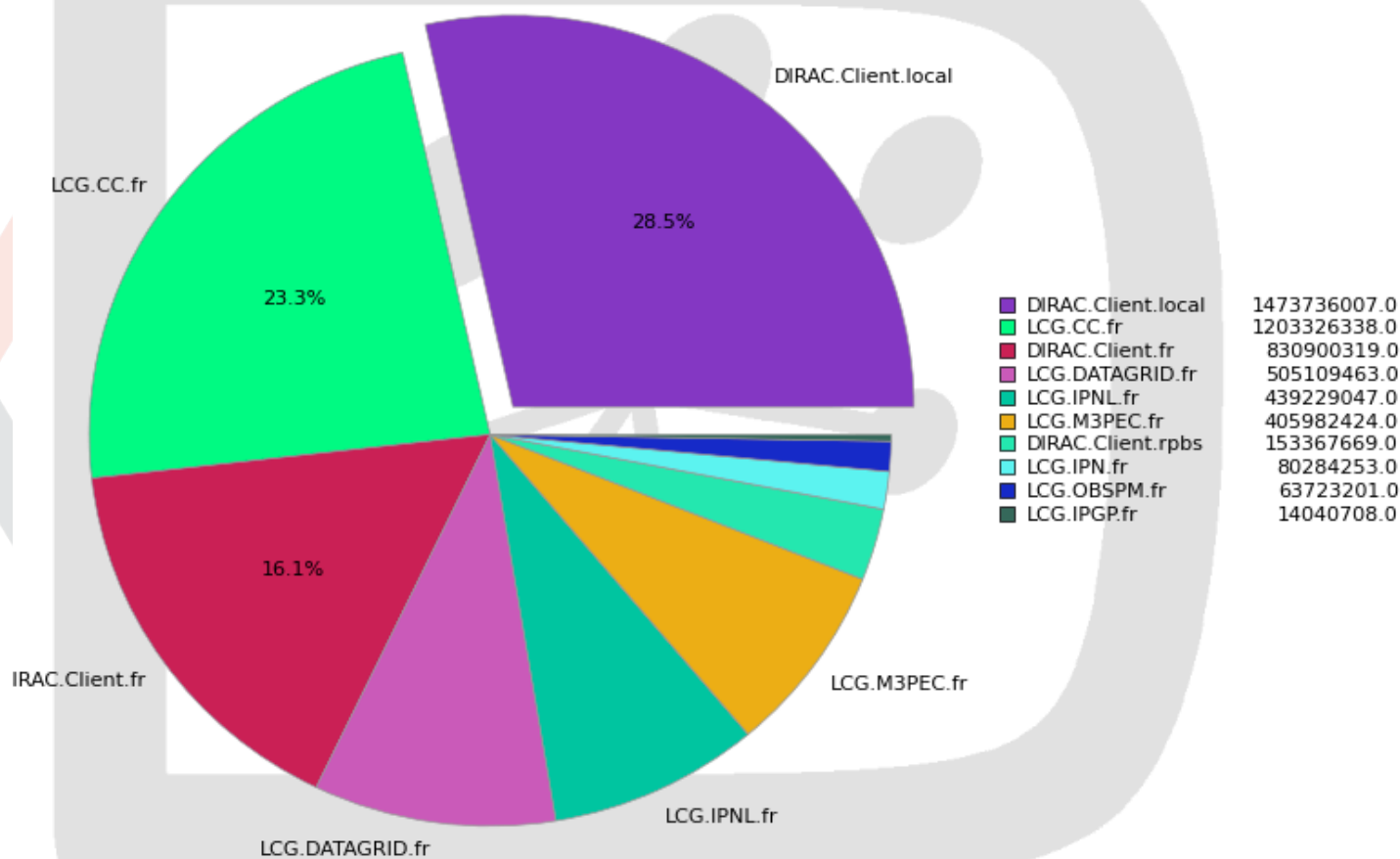
Total data transferred by User

48 Hours from 2015-06-25 00:00 to 2015-06-27 00:00 UTC



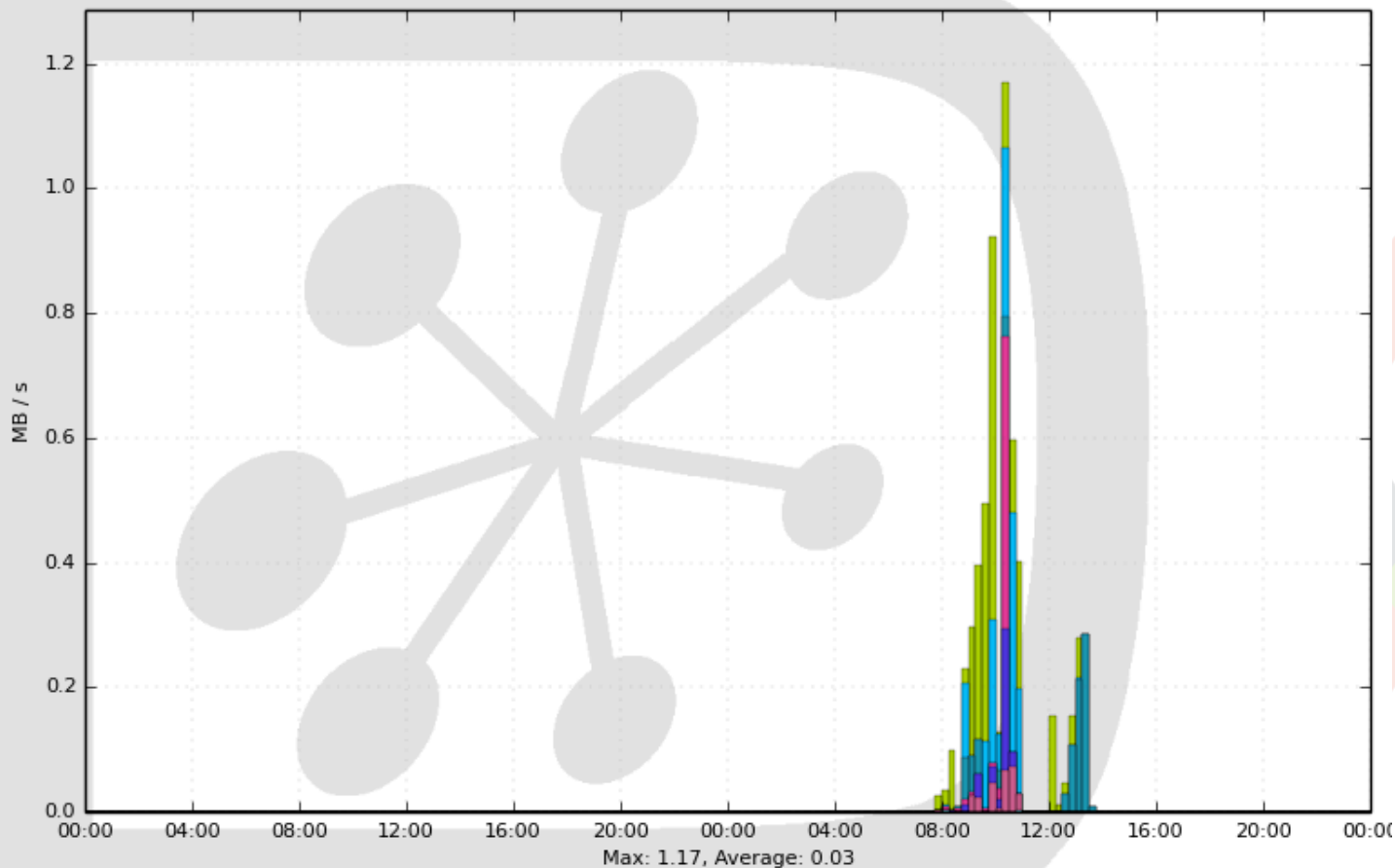
Total data transfered by Source

48 Hours from 2015-06-25 00:00 to 2015-06-27 00:00 UTC



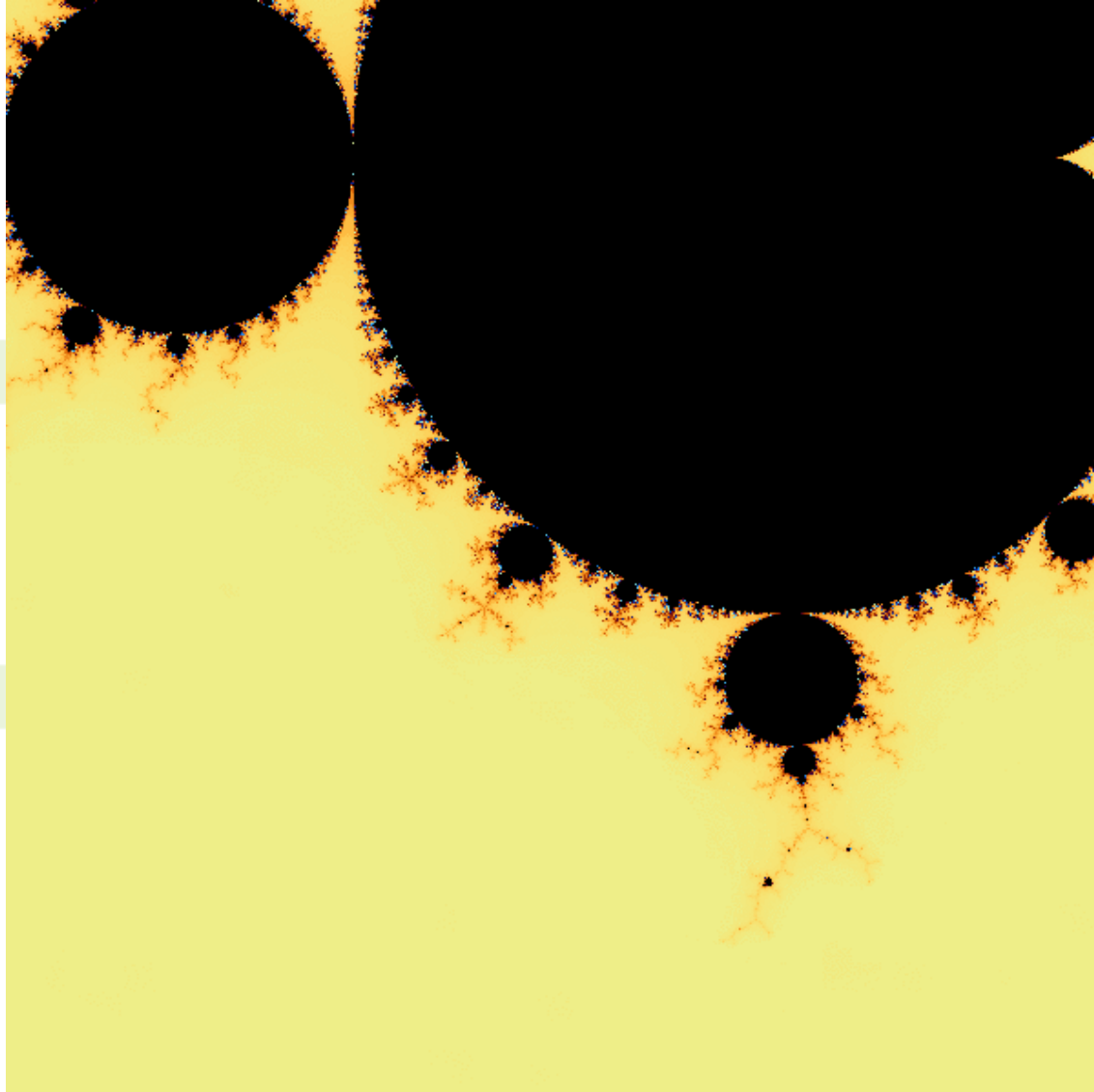
Throughput by User

48 Hours from 2015-06-25 00:00 to 2015-06-27 00:00 UTC



userf	41.3%	userk	15.5%	userb	5.9%	usere	0.1%
userg	23.4%	userh	9.2%	userc	4.7%		

The Mandelbrot Quest winner !



- ▶ Questions ?
- ▶ Suggestions ?
- ▶ Criticism ?