

# LHCb Computing activities



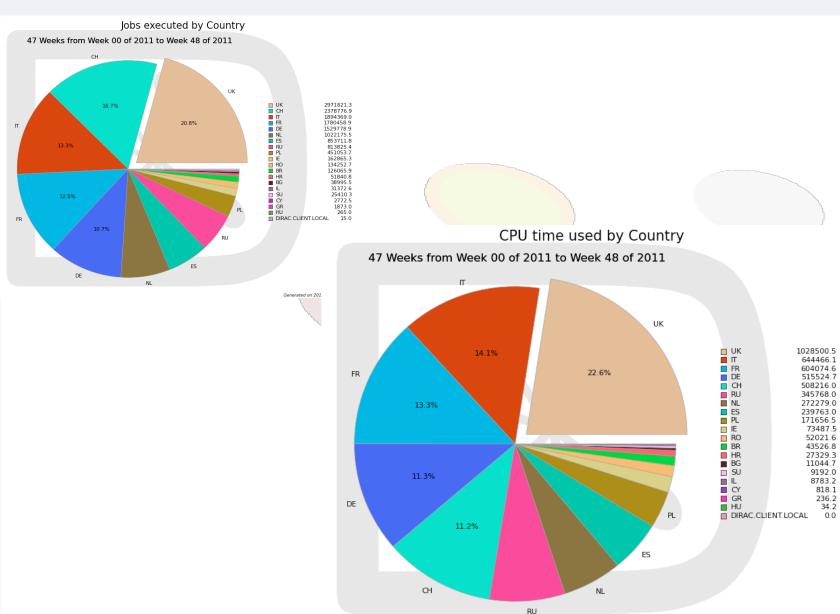








# Share of LCG-France in LHCb activities



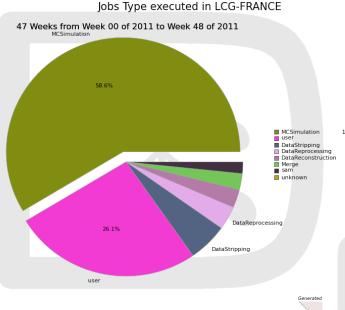


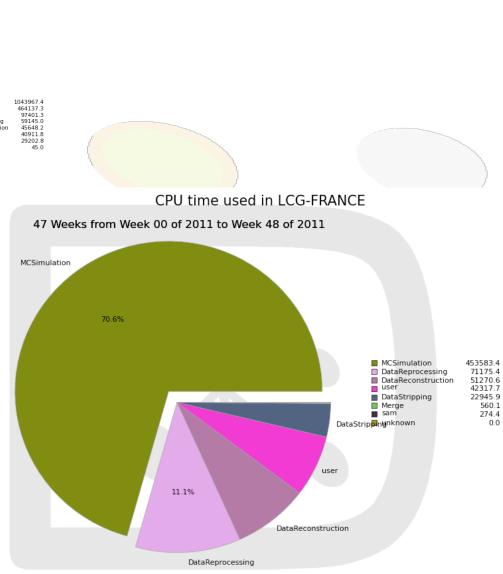
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# Type of activities in LCG-France



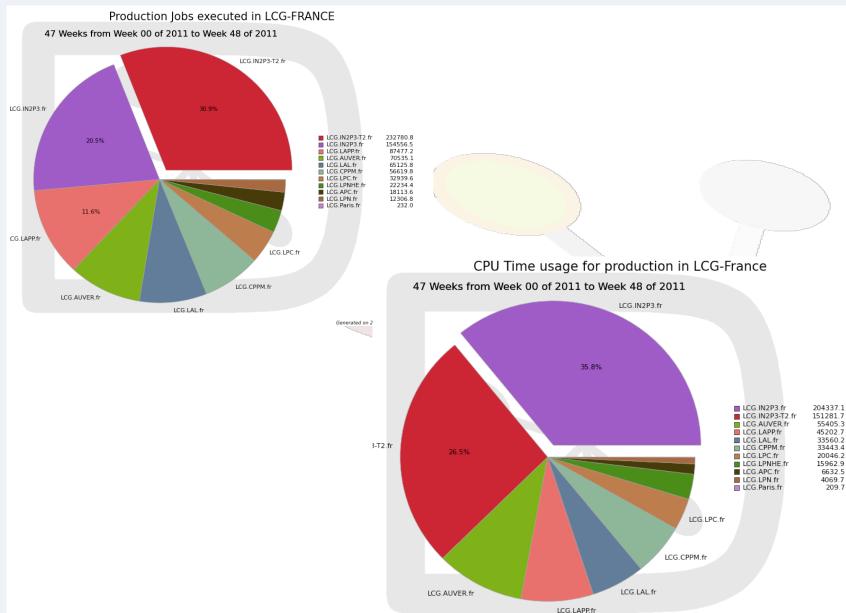




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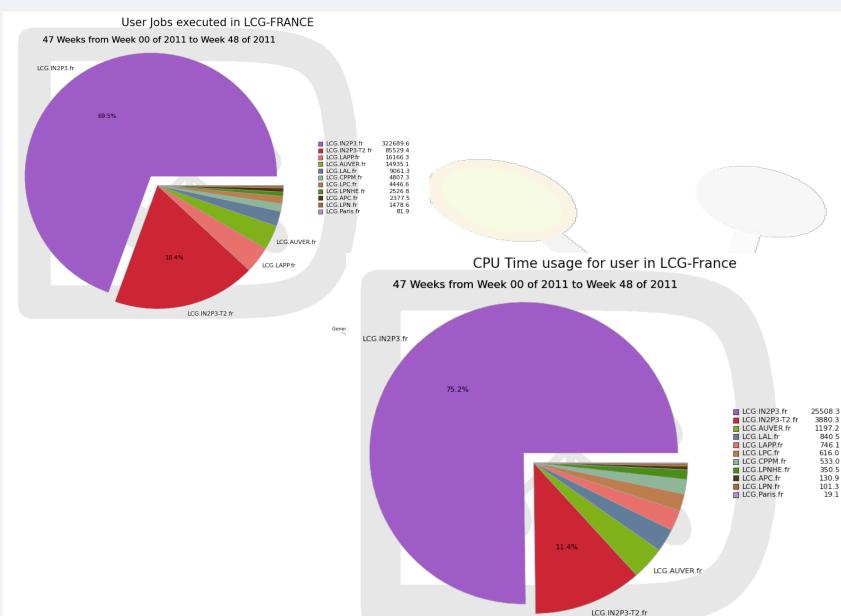
### Site share in LCG-France







# User activity in LCG-France







- o IN2P3 is one of our 6 T1 used in LHCb
- o Usage:
  - Reconstruction
  - Reprocessing
  - Stripping
  - Analysis
- o IN2P3-T2 is one of our 150 T2 used in LHCb
- Usage :
  - Monte Carlo
  - Reprocessing
- Since one month the difference between T1 and T2 for IN2P3 has evolved with the reshuffling of the queues available for LHCb.





# LCG.IN2P3.fr: CE configuration

- We use 6 CREAM CE at IN2P3
- verylong for /lhcb/Role=pilot with 4 GB on each CE from Site T1 (IN2P3-CC):
  - \* cccreamceli02.in2p3.fr
  - \* cccreamceli05.in2p3.fr
  - \* cccreamceli06.in2p3.fr
- verylong for /lhcb/Role=pilot with 5 GB on each CE from Site T2 (IN2P3-CC-T2)
  - \* cccreamceli03.in2p3.fr
  - \* cccreamceli07.in2p3.fr
  - \* cccreamceli08.in2p3.fr
- queues medium and long were reopened for /lhcb/ Role=pilot on all the Ces
- o 5GB queue is historical and could be retired







# LCG.IN2P3.fr : Storage

Space Token	Total Size (TB)	Total Files
LHCb-disk	267.7	86707
LHCb_FAILOVER	0.1	25416
LHCb_DST	5.6	26780
LHCb_M-DST	12.6	23843
LHCb_MC_DST	65.8	14838
LHCb_MC_M-DST	43.3	9359

**395.1** TB (Pledge 1010 TB)

Space Token	Total Size (TB)	Total Files
LHCb-Tape	403.7	126372
LHCb_RAW	13.9	4712
LHCb_RDST	130.9	49516

**548.5** TB

Space Token	Total Size (TB)	Total Files
LHCb_User	35.6	410367

**35.6** TB

there are also some files (about 100,000) outside the space tokens, and we should provide IN2P3 the exact list and the space token where each file should be placed





# Issues and improvements

### Shared area:

lot of issue with the shared area. We have requested to all the T1 to move to CVMFS and since few weeks IN2P3 is using CVMFS. We had few WN badly configure at the beginning but now we did not notice any issue. We encourage the T2 to install CVMFS also.

### o Space token:

- We simplify the number of space token to have only three
- We request a weekly dump to make our consistency check

### o Memory usage:

 We ask to increase the memory for LHCb job due a problem in our software. We have improve our software for the new releases.

### o 3D streaming:

In july problem of 3D stream replication due a ORACLE problem





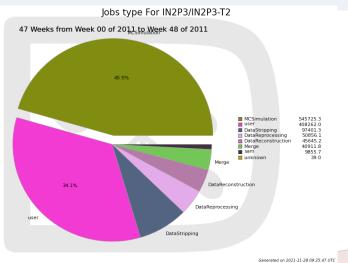
# Issues and improvments

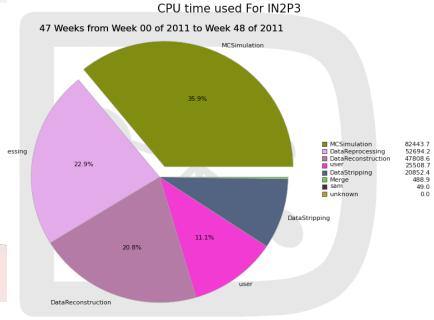
- o Lost Data
  - When we remove by mistake some files, IN2P3 manage to restore them.
- Few problem with dCache and file access at the beginning of the year but since then no issue
- Some problem with FTS
  - Change of DN for our data manager
  - Some channels were not opened.
- Since 2 weeks we have a new contact person for LHCb which will help to continue our fruitfull collaboration between IN2P3 and LHCb

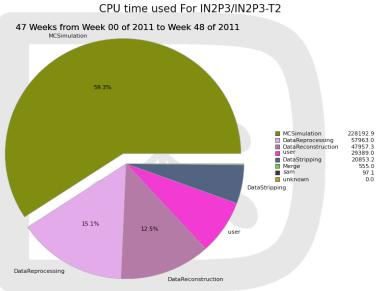




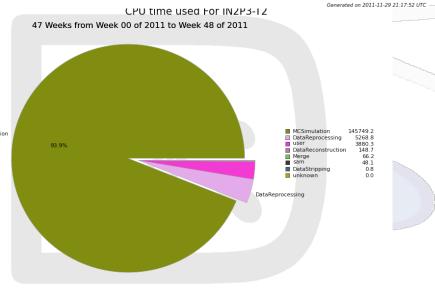
## LCG.IN2P3.fr







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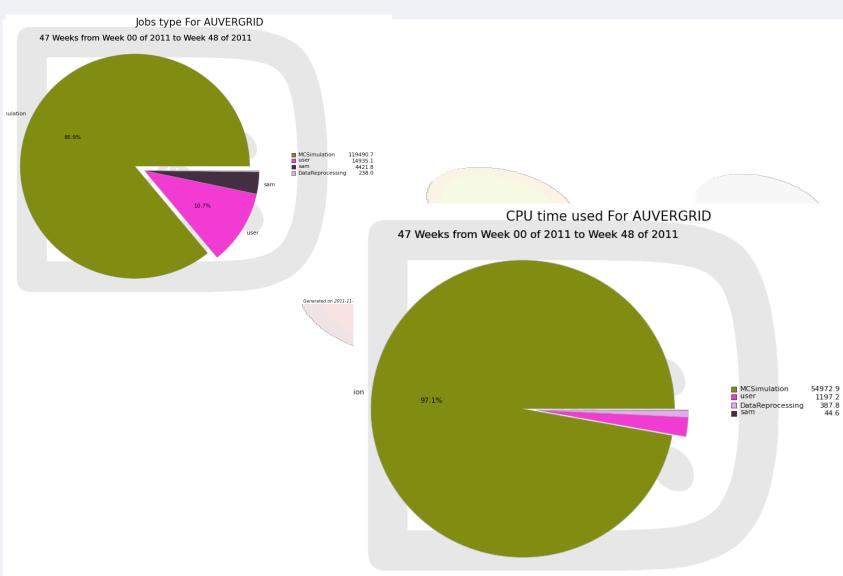




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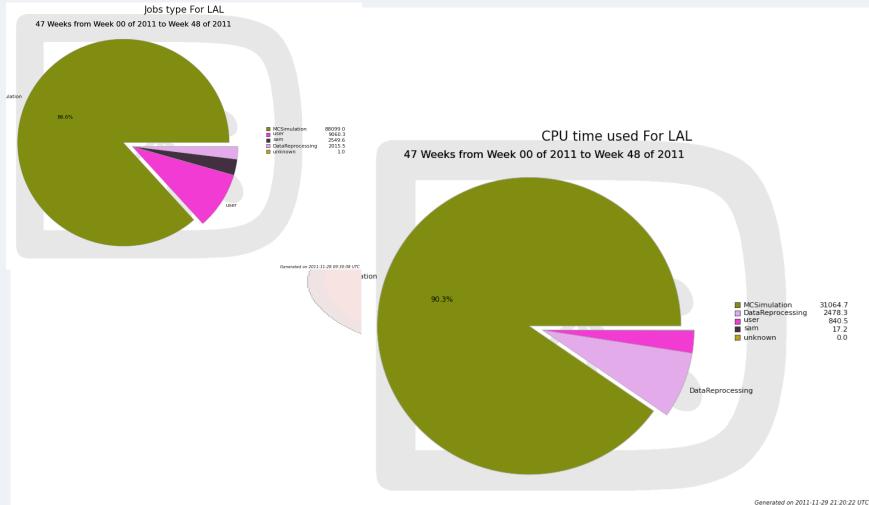


Main issue is the shared area



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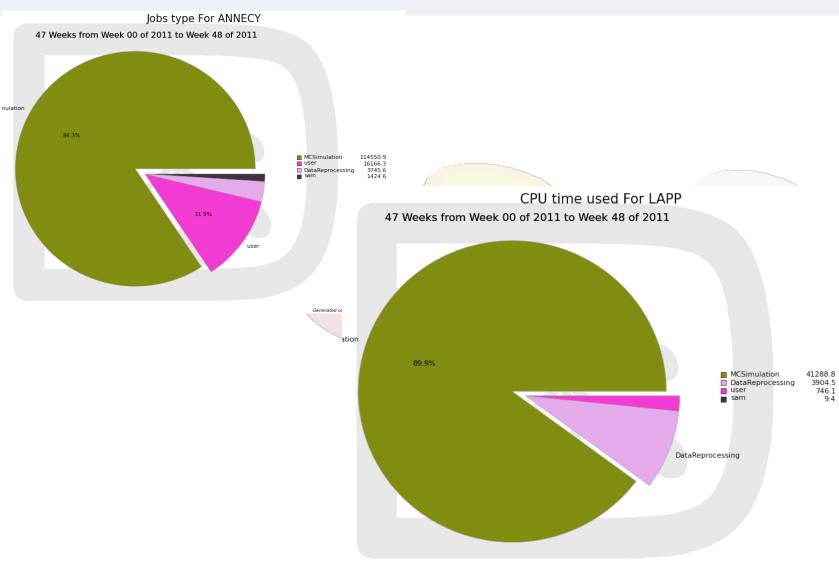


We do not use the potential of this site for various reason but most of them are out of our control.









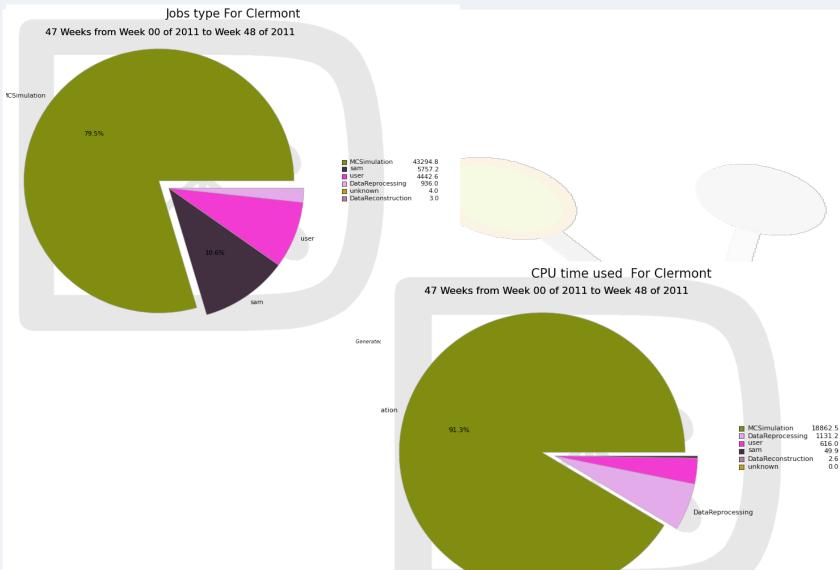
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Main issue is the shared area





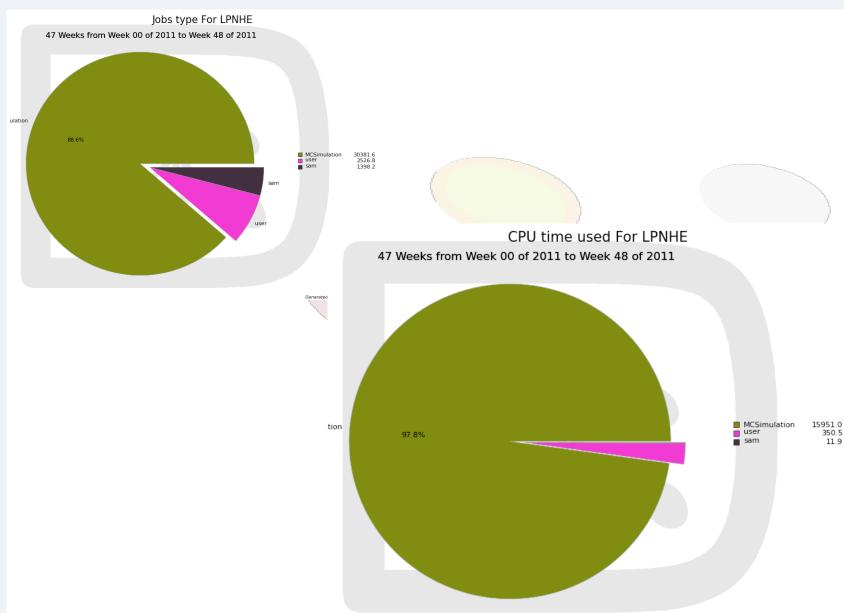






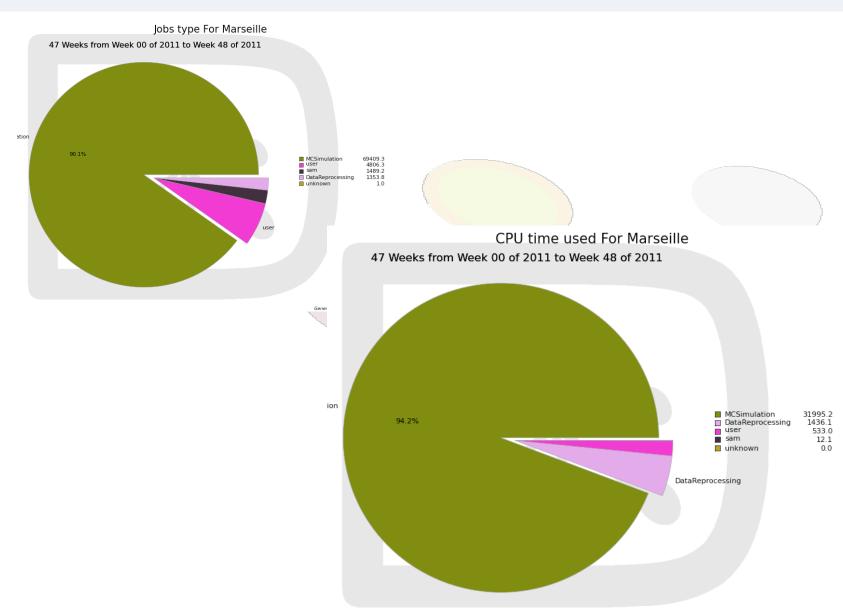








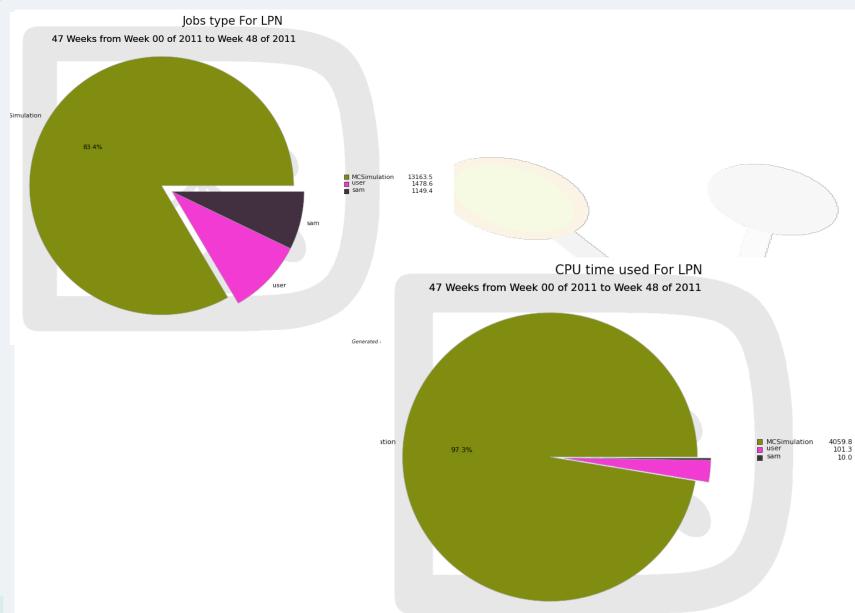






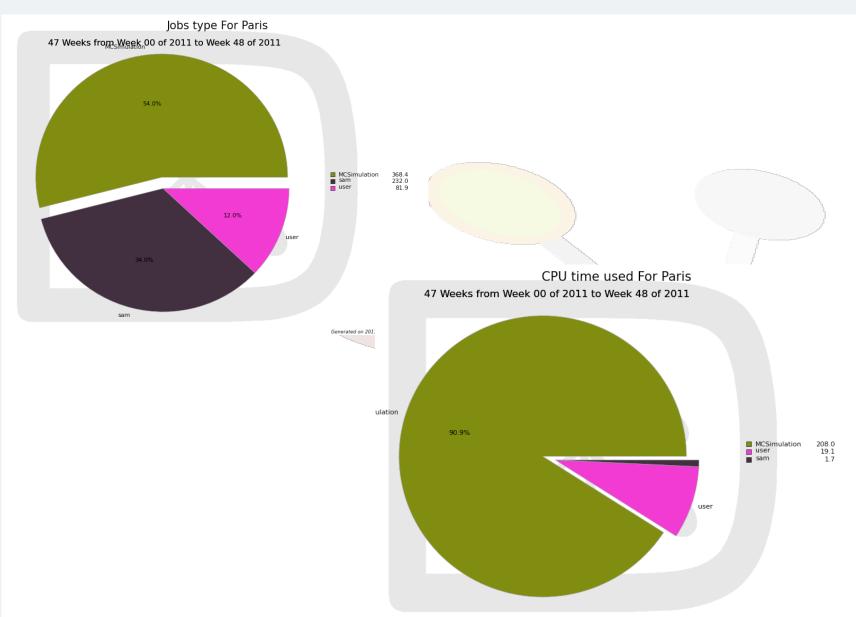












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