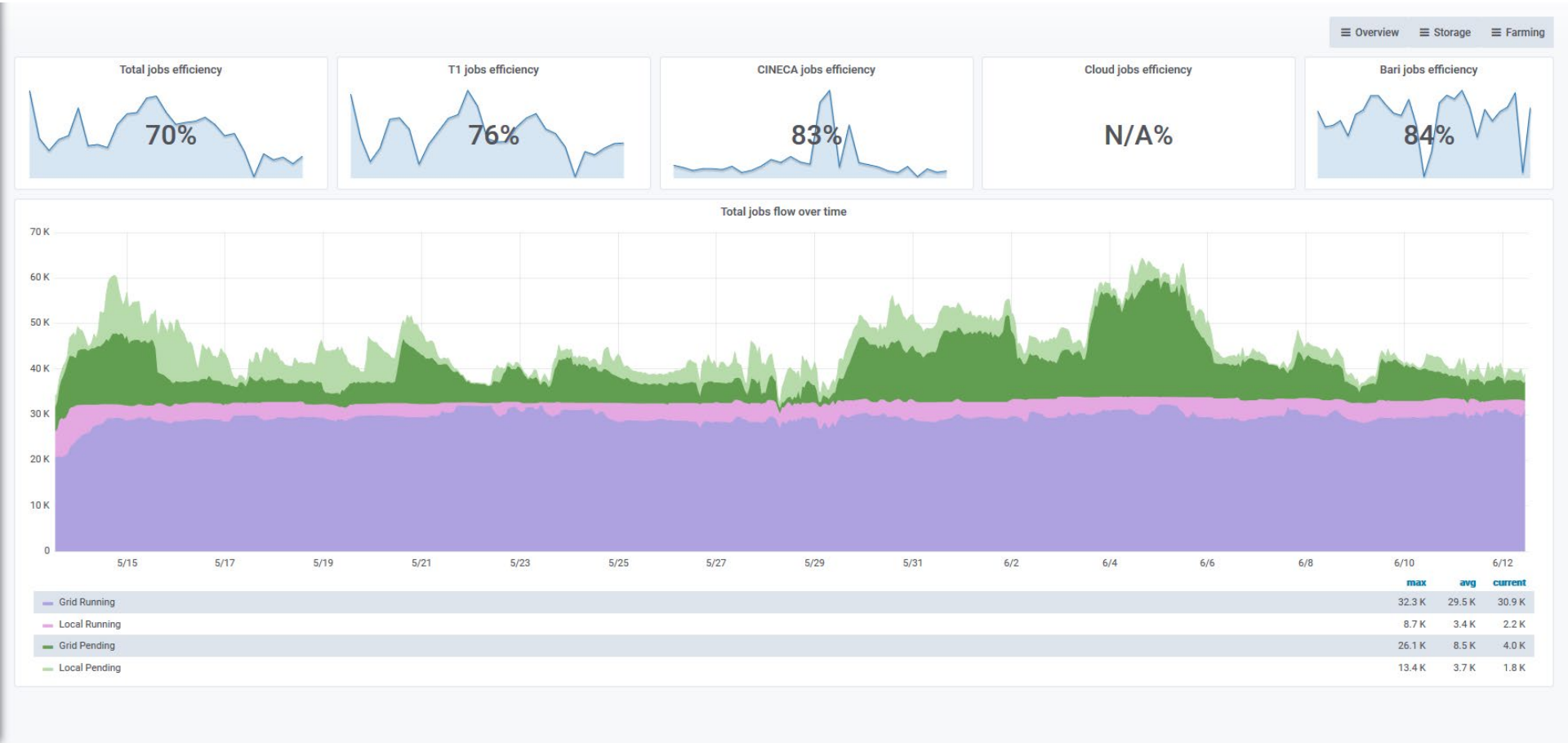
Stato Farming ed evoluzione

Stefano Dal Pra
Diego Michelotto
Federico Fornari
Andrea Chierici

Job trends


Overview
Storage
Farming
Total jobs efficiency
70%
T1 jobs efficiency
76%
CINECA jobs efficiency
83%
Cloud jobs efficiency
N/A%
Bari jobs efficiency
84%
Total jobs flow over time
70 K
60 K
50 K
40 K
30 K
20 K
10 K
0
5/15
5/17
5/19
5/21
5/23
5/25
5/27
5/29
5/31
6/2
6/4
6/6
6/8
6/10
6/12
max
avg
current
Grid Running 32.3 K 29.5 K 30.9 K
Local Running 8.7 K 3.4 K 2.2 K
Grid Pending 26.1 K 8.5 K 4.0 K
Local Pending 13.4 K 3.7 K 1.8 K

Computing resources

- Farm power: approx. 410 KHS06
  - 35.000 slot, 850 host
  - 40 user groups, 24 VO, 25 local
- Tenders in production: 2016, 2017, Cineca, ReCaS, 2014, 2015
  - Production farm is getting old
- 2019 tender should replace 37.352 HS06
  - Cineca vs tender to be sorted out

Condor in production (1)

- Migration plan may be delayed
  - During summer low activity
- LSF around till end of the year
- In production for LHC and grid submissions
  - Following, local submitting Exps
  - Small number of nodes

Condor in production (2)

- Possible to request GPUs, proper accounting
  - We would like to better understand requirements on this kind of resources
- Testbed under configuration (Fornari)
  - Stress HA setup
  - Share management

Cloud@CNAF

- 1 production infrastructure for T1 + SDDS
  - We are looking for new use cases.

- General specs
  - Everything is configured in HA
  - Automated installation via puppet
  - DBs are backed up
  - GPFS is the storage backend
  - Integration with IAM for Authn/Authz
  - Accounting