

**CMS VO report @ T2\_CH\_CSCS**  
**Feb 2020**

## Job Pressure at CSCS

Although CMS claims that '*CEs are working fine on new factory*', the job pressure is this still low. There were no problems reported during the last month by CMS, so it's unclear what's wrong.

Is there something wrong at all?

yes: looking at the pending jobs numbers, cf. here: CMS sends 20k jobs at any time, (still) only  $\sim < 10$  arrive at CSCS (instead of  $\sim 300 = 20k/60T2s$ , not sure if this calculation is valid, but also not sure why it wouldn't be).

feb 27: opened JIRA ticket about this; so far found out:

- CMS comp-ops had wrong storage info (1840TB instead of 2110TB)
  - false entry stemming from this spreadsheet
  - now corrected
- data ops had only 11% (instead of 33%) of the DDM pledge (which is 80% of pledged quota) resulting in only 167TB for data ops (is now 555TB)
- this should be the reason why exceptionally **few** production jobs were / are run at CSCS
  - > monitor closely in near future
- validation of changes can be found on this summary page

# Site Readiness

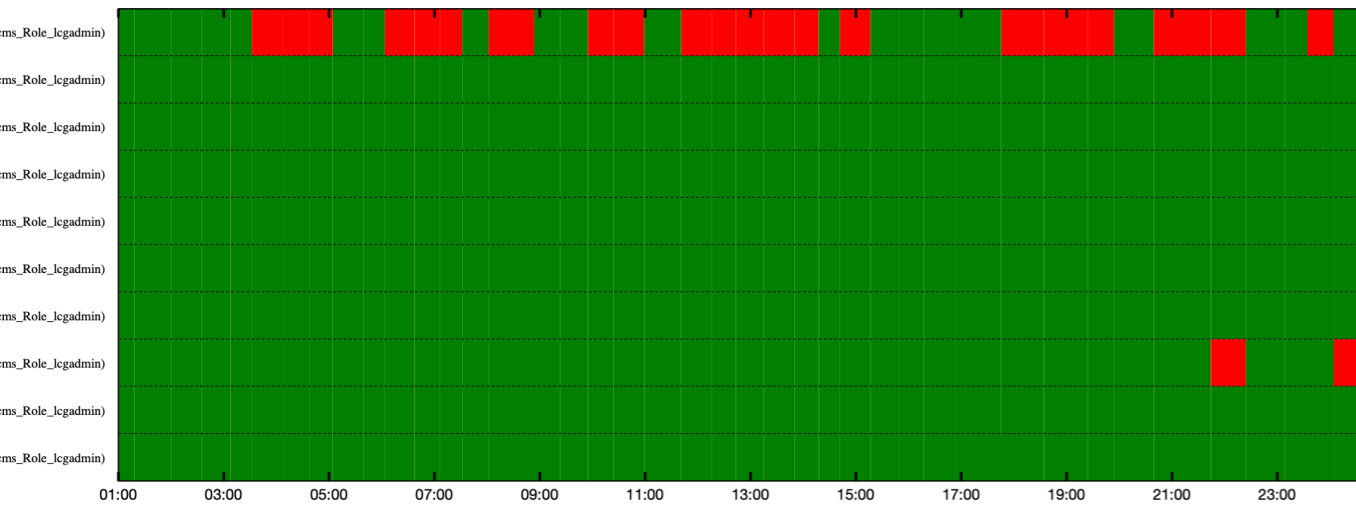
<b>Downtimes:</b>																	
<b>SAM Status:</b>	100%	100%	100%	100%	100%	89%	99%	96%	86%	97%	98%	92%	97%	93%	58%	92%	
<b>Hammer Cloud:</b>	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	100%	100%	
<b>FTS Status:</b>	95%	98%	96%	95%	96%	96%	96%	83%	96%	91%	92%	93%	93%	94%	94%	96%	
<b>Site Readiness:</b>	84%	34%	86%	91%	85%	53%	56%	67%	85%	91%	97%	92%	92%	92%	24%	38%	
<b>Life Status:</b>																	
<b>Prod Status:</b>																	
<b>CRAB Status:</b>																	
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	Feb																

dcap issues, cf. logs below

all green (mostly), but still no pending jobs!

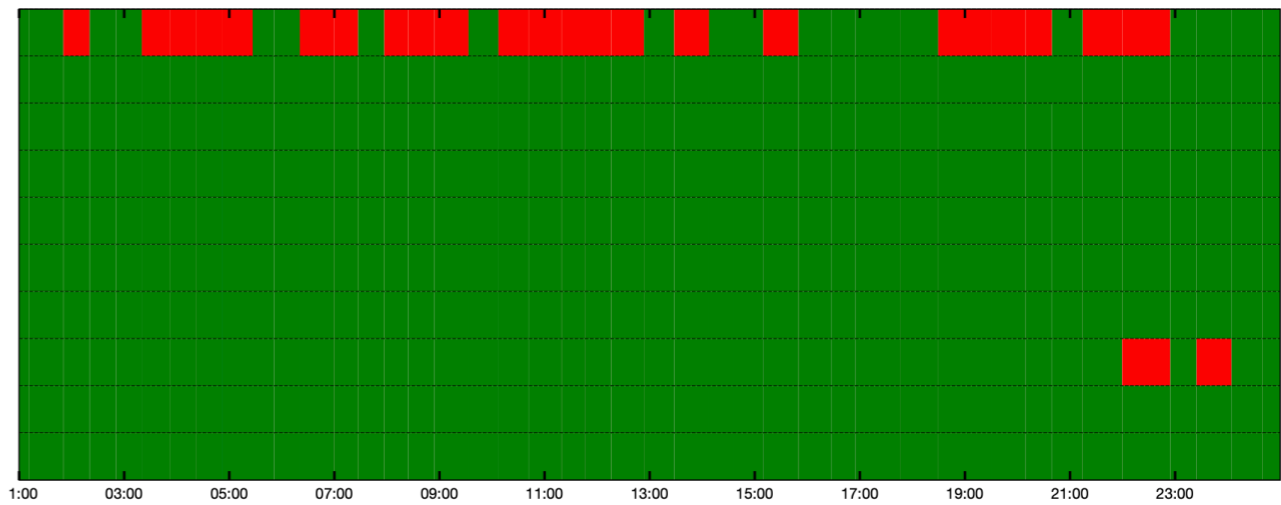
Test history arc04.lcg.cscs.ch using CMS\_CRITICAL\_FULL

24 hours from 2020-02-17 01:00 to 2020-02-18 01:00



Test history arc05.lcg.cscs.ch using CMS\_CRITICAL\_FULL

24 hours from 2020-02-17 01:00 to 2020-02-18 01:00



## Test History

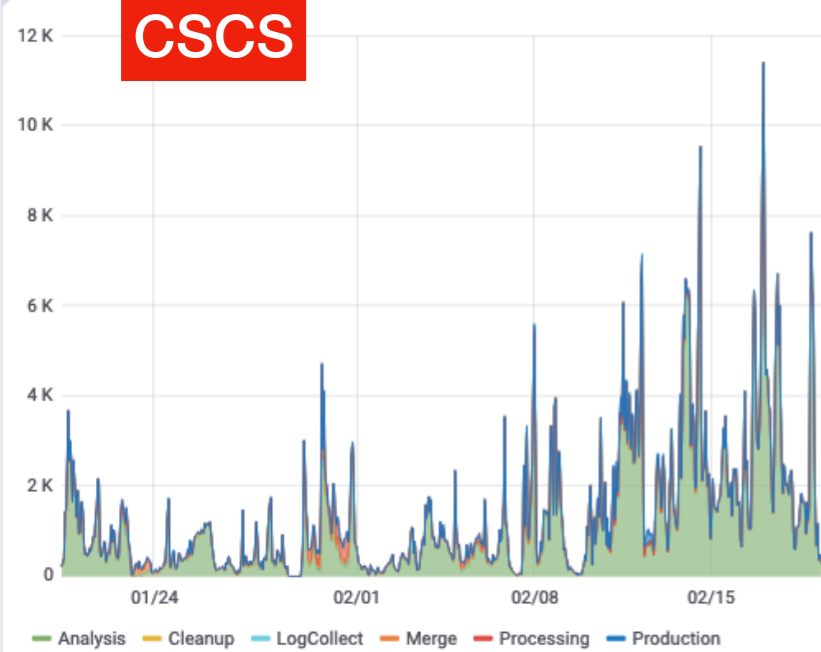
972138 completed

4176 running jobs

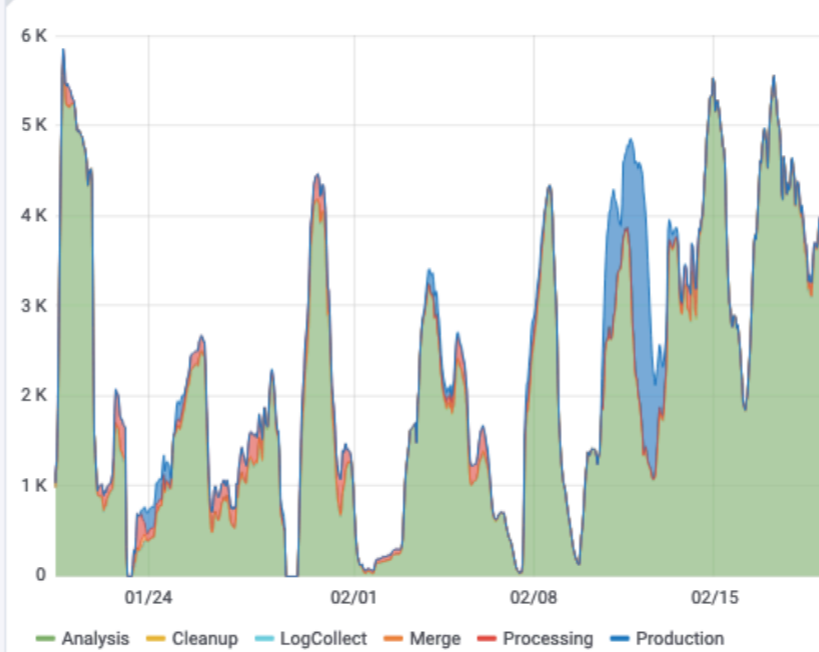
8 pending jobs

CSCS

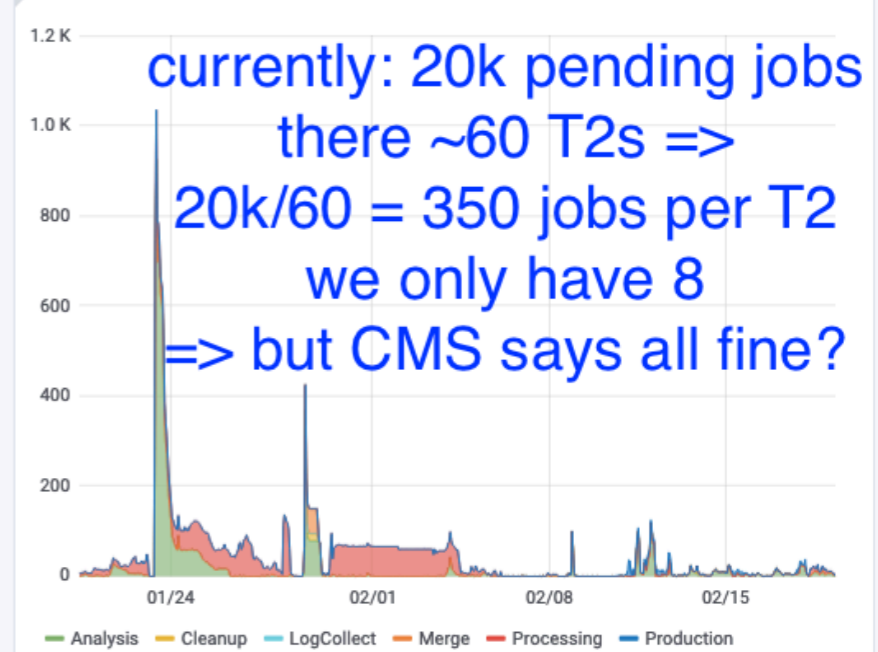
Completed jobs



Running jobs



Pending jobs



links: all T2s, CSCS

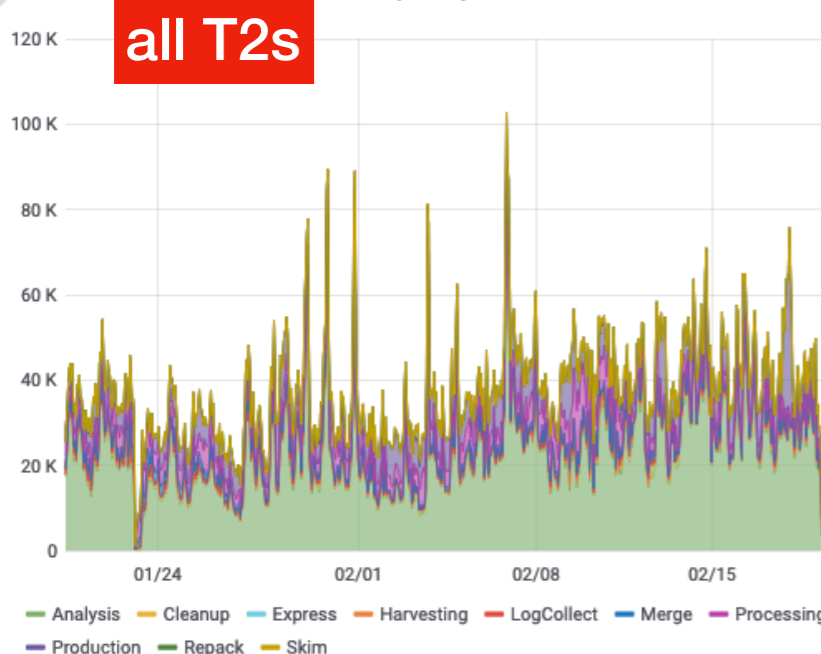
26997125 completed

133916 running jobs

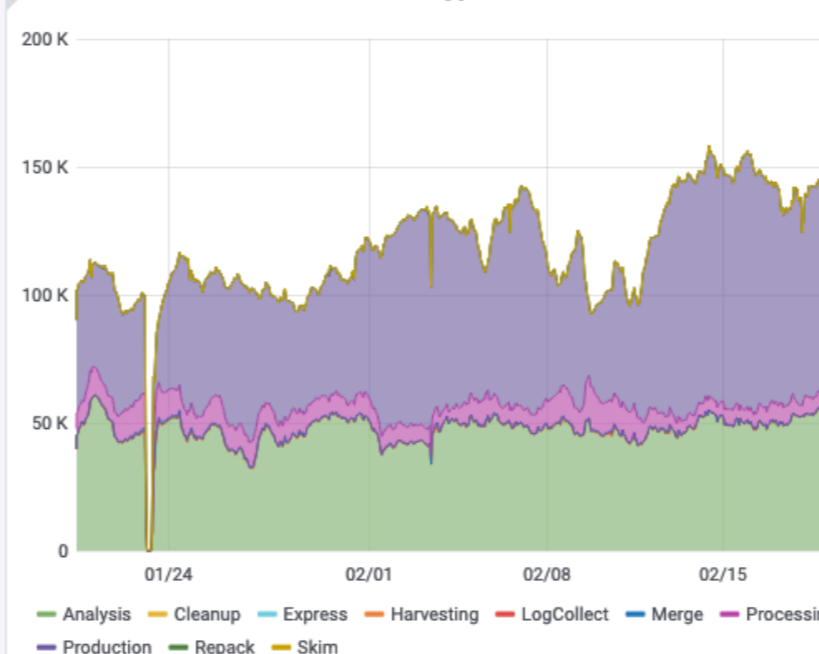
20395 pending jobs

all T2s

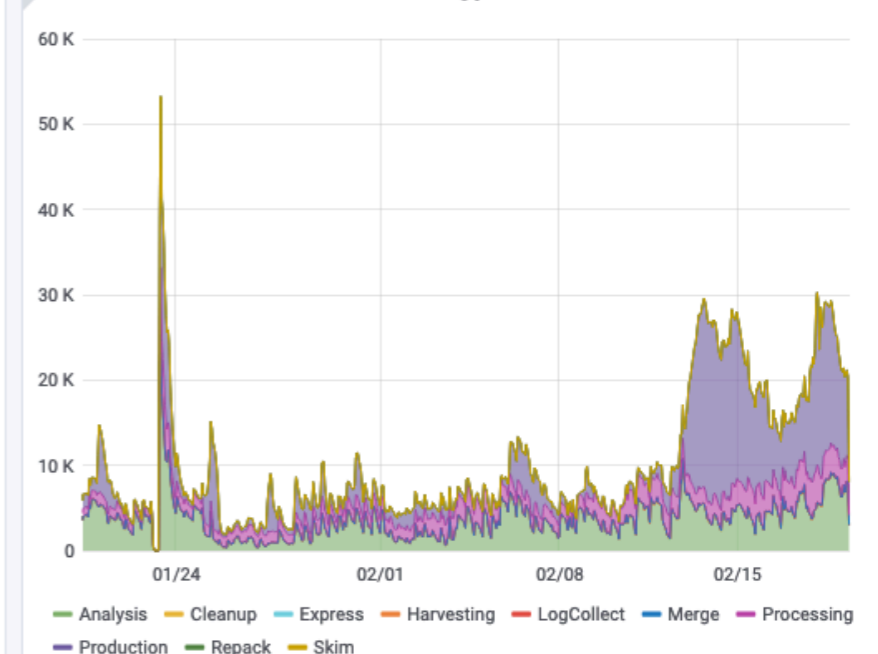
Completed jobs



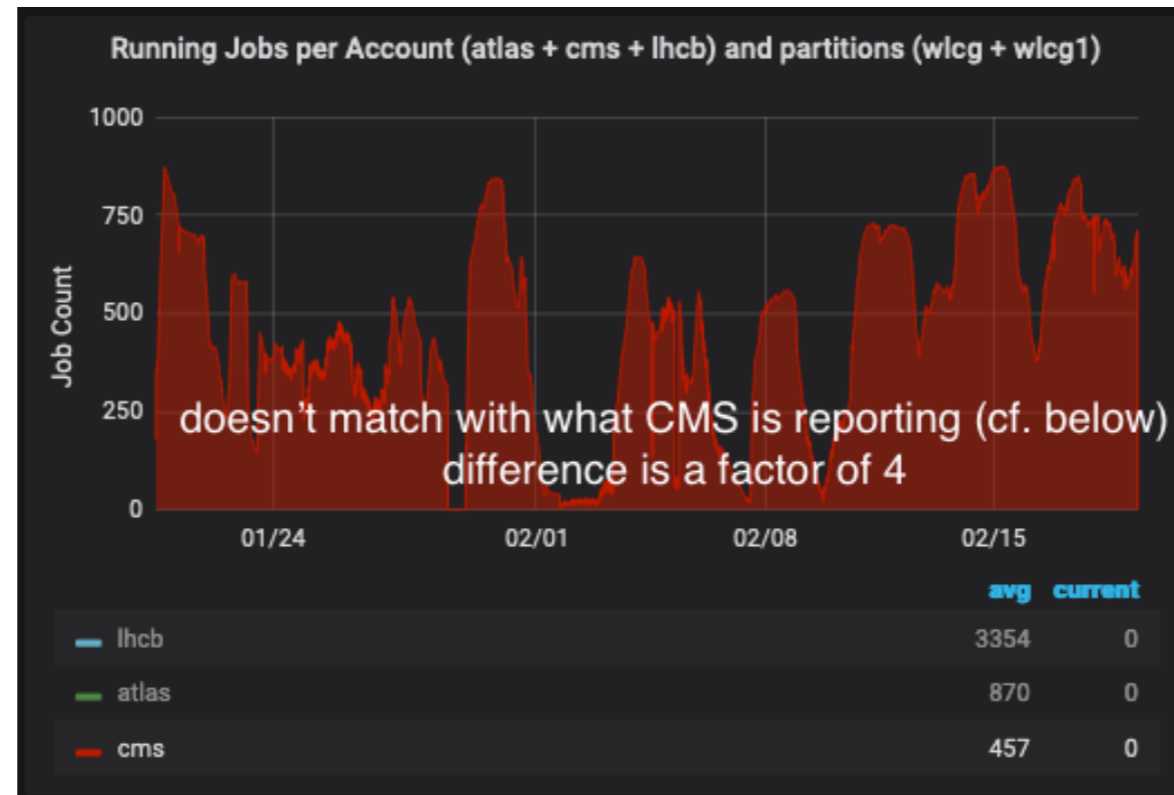
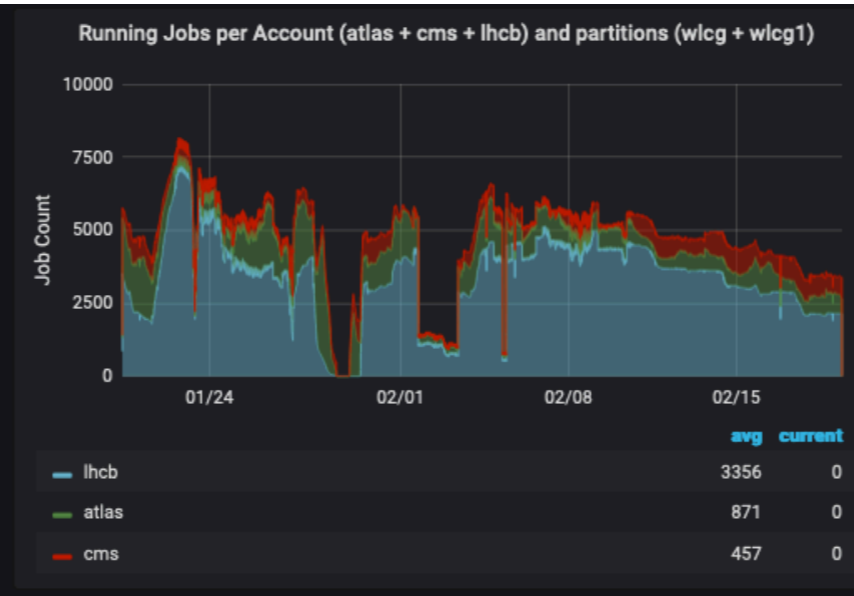
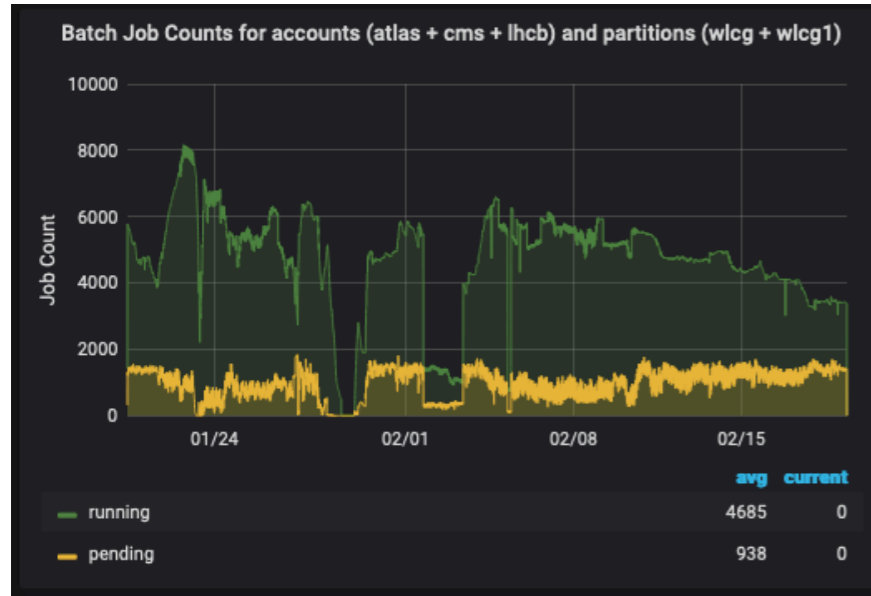
Running jobs



Pending jobs

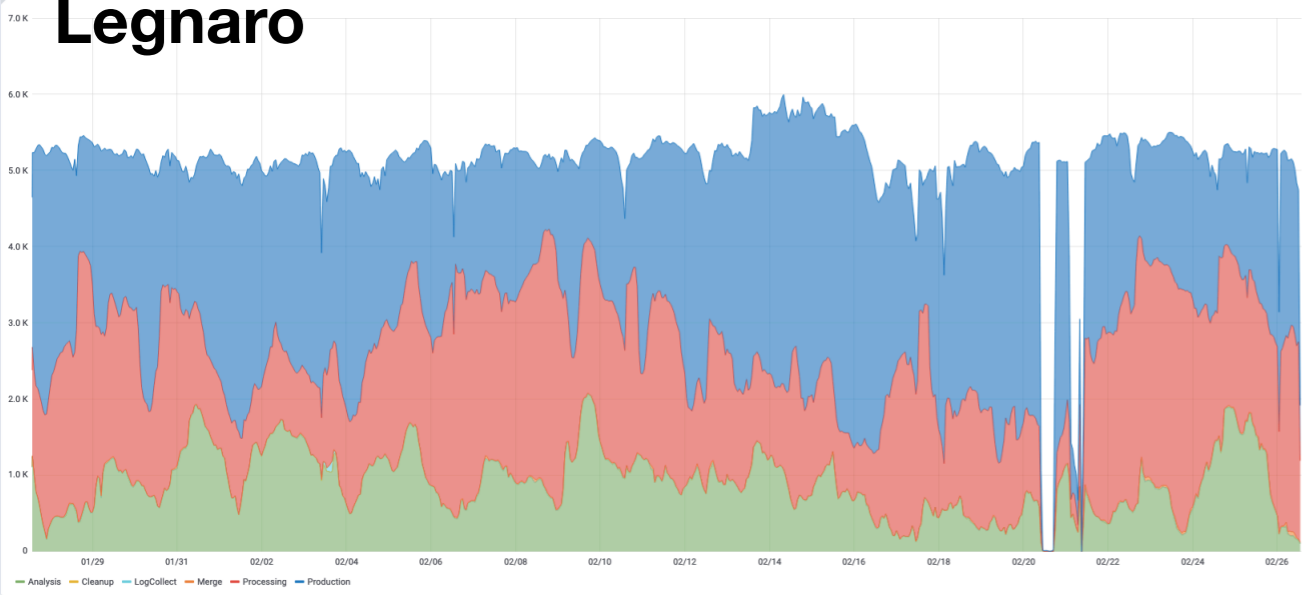


# CSCS internally



# Legnaro

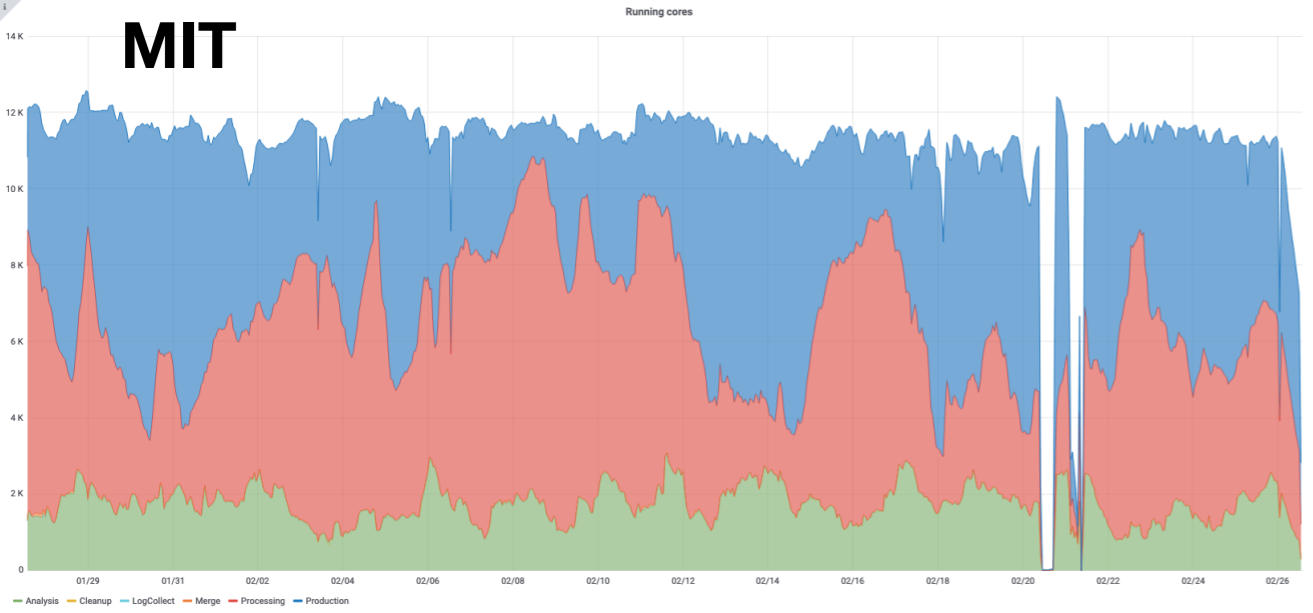
Running cores



**Running Cores  
(compare cscs to  
"healthy sites")**

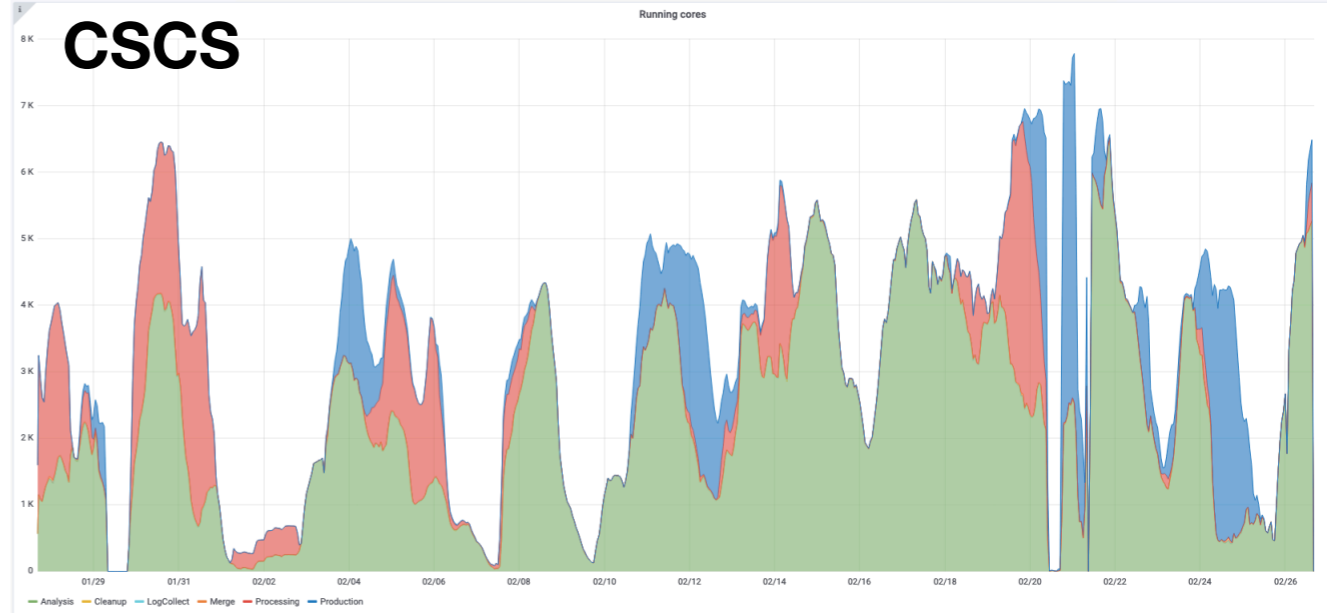
# MIT

Running cores



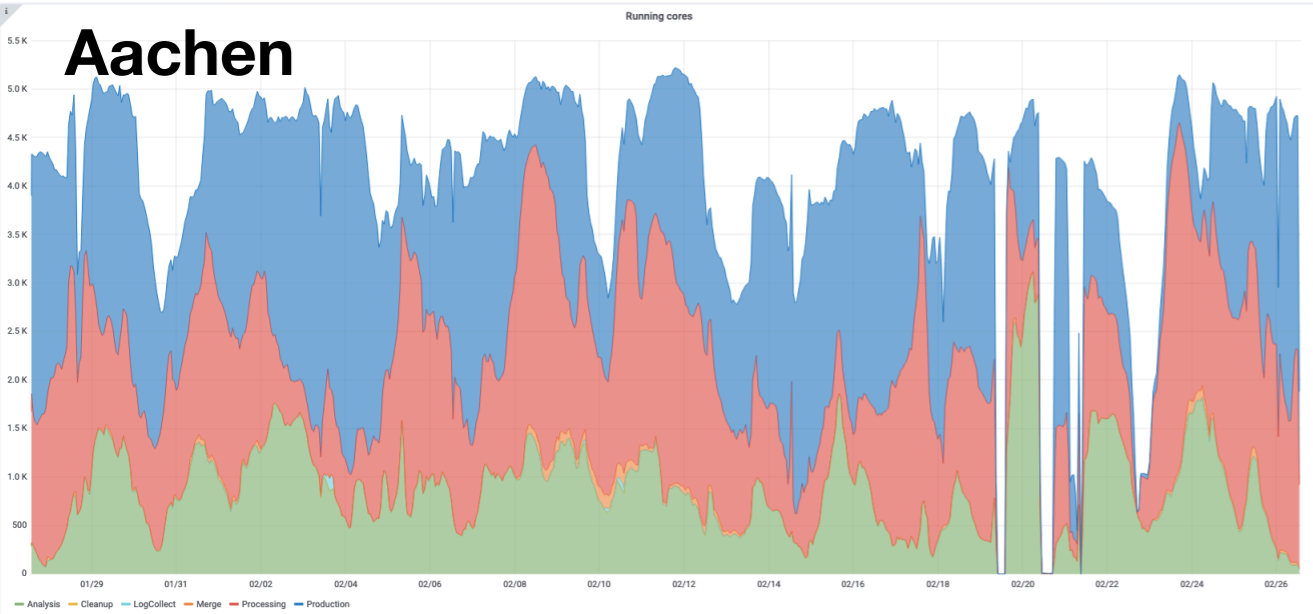
# CSCS

Running cores



# Aachen

Running cores



**conclusion:**

**not enough jobs arriving at CSCS  
therefore periods with low occupancy**

**links: Legnaro, Aachen, MIT, CSCS**