CMS Tier-1 Experiment sign off for Q1 2020
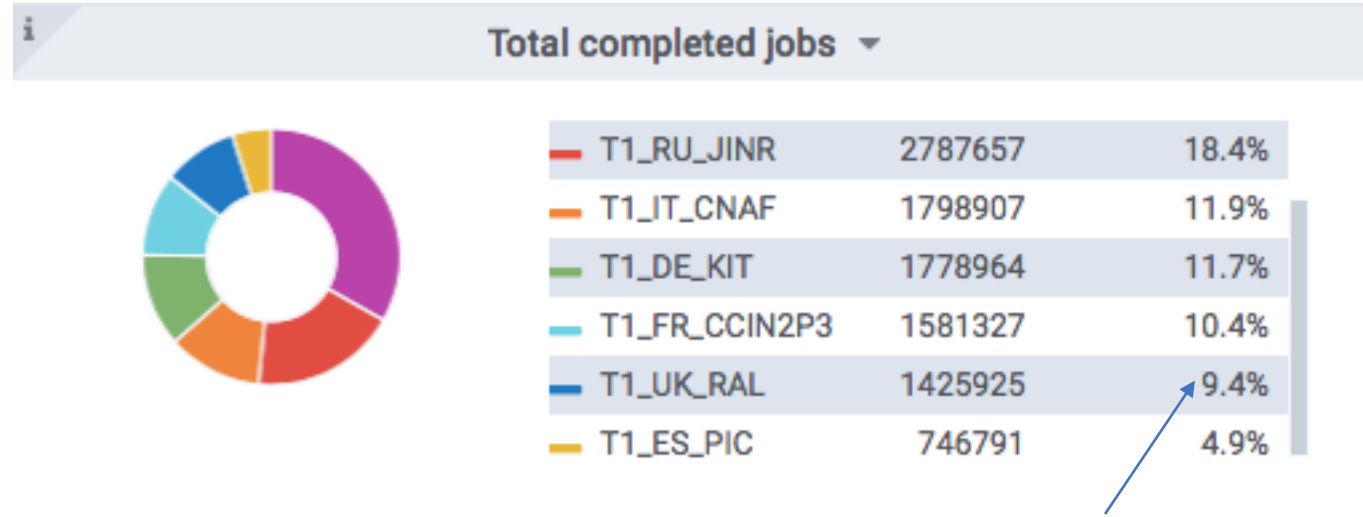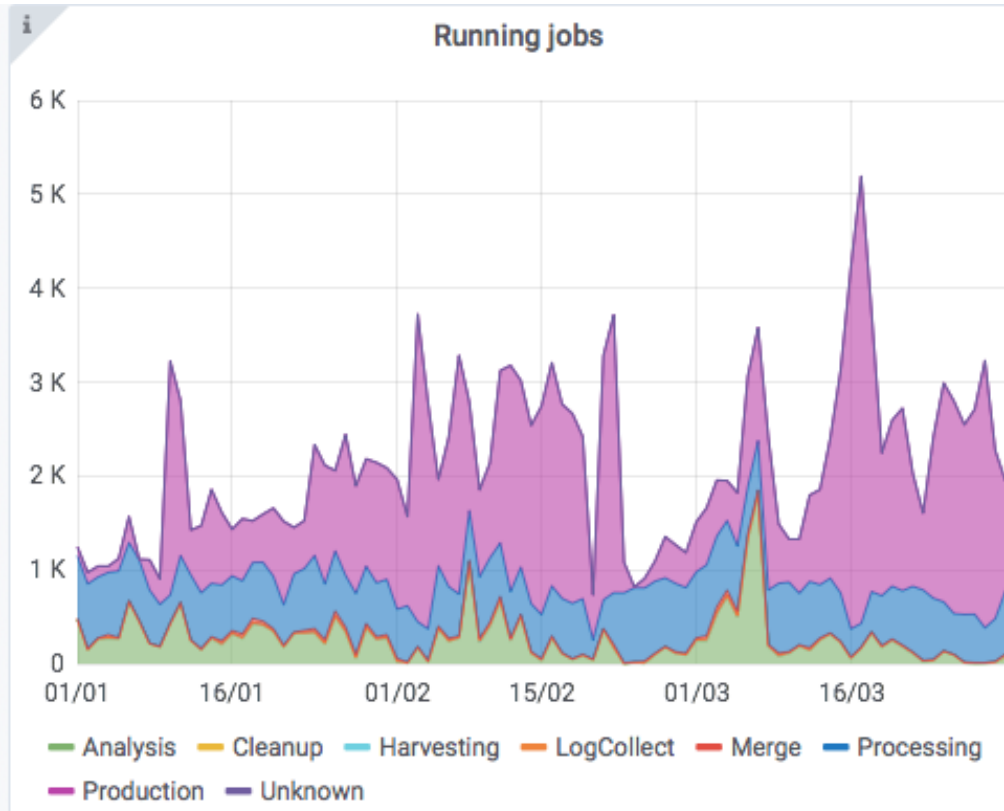
Katy Ellis, 1 Jul 2020
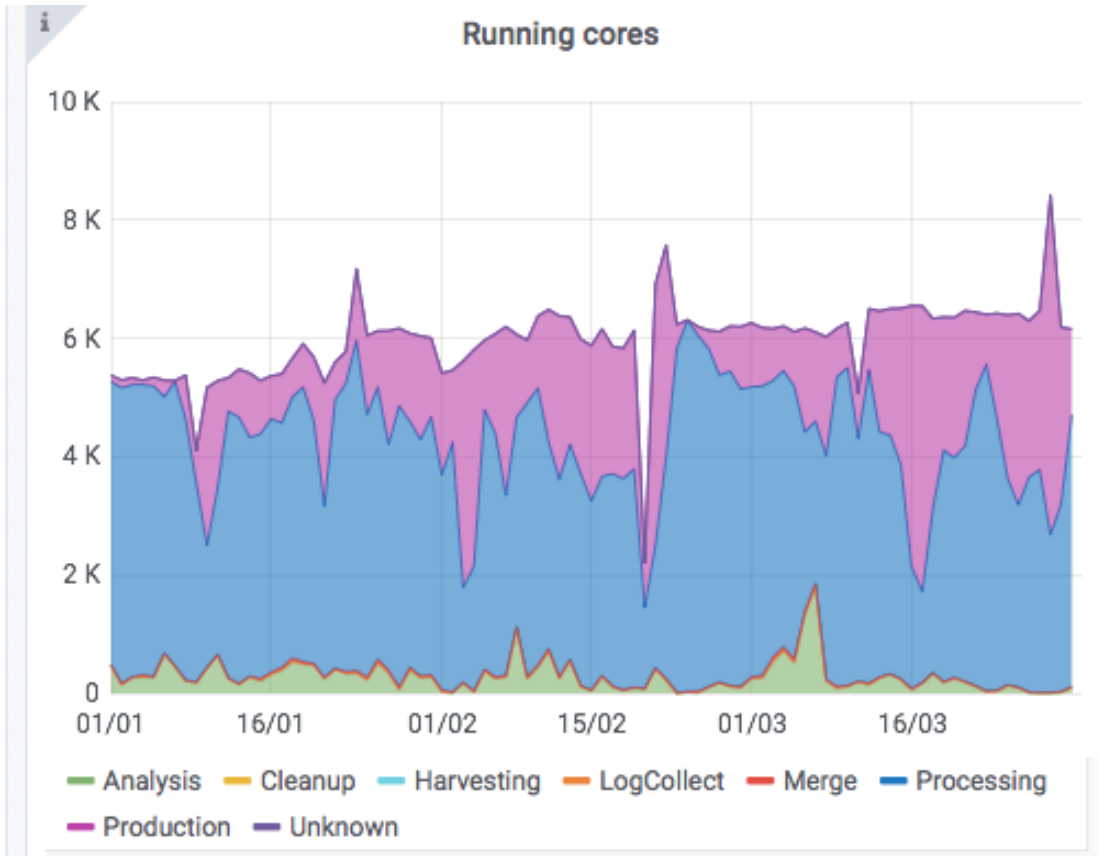
Running jobs

i	Total completed jobs ▾		
— T1_RU_JINR	2787657	18.4%
— T1_IT_CNAF	1798907	11.9%
— T1_DE_KIT	1778964	11.7%
— T1_FR_CCIN2P3	1581327	10.4%
— T1_UK_RAL	1425925	9.4%
— T1_ES_PIC	746791	4.9%

Increase from 7.3% in Q4 2019

Completed jobs

Running jobs

Analysis — Cleanup — Harvesting — LogCollect — Merge — Processing — Production — Unknown
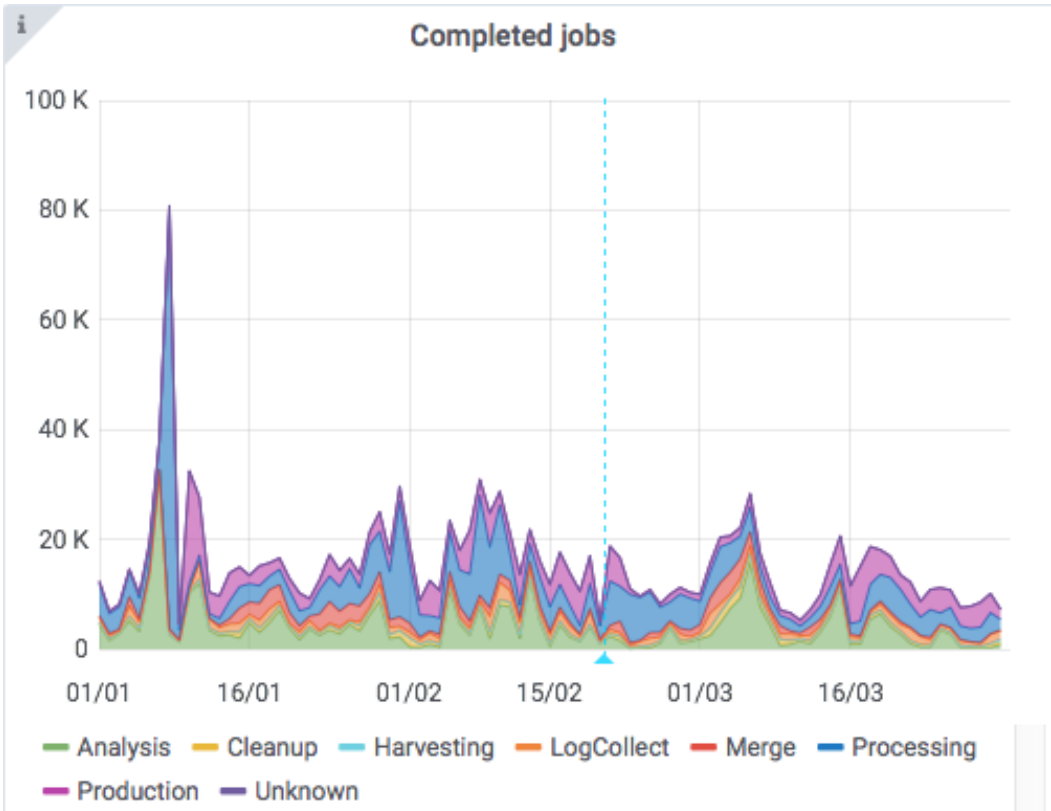
Running cores
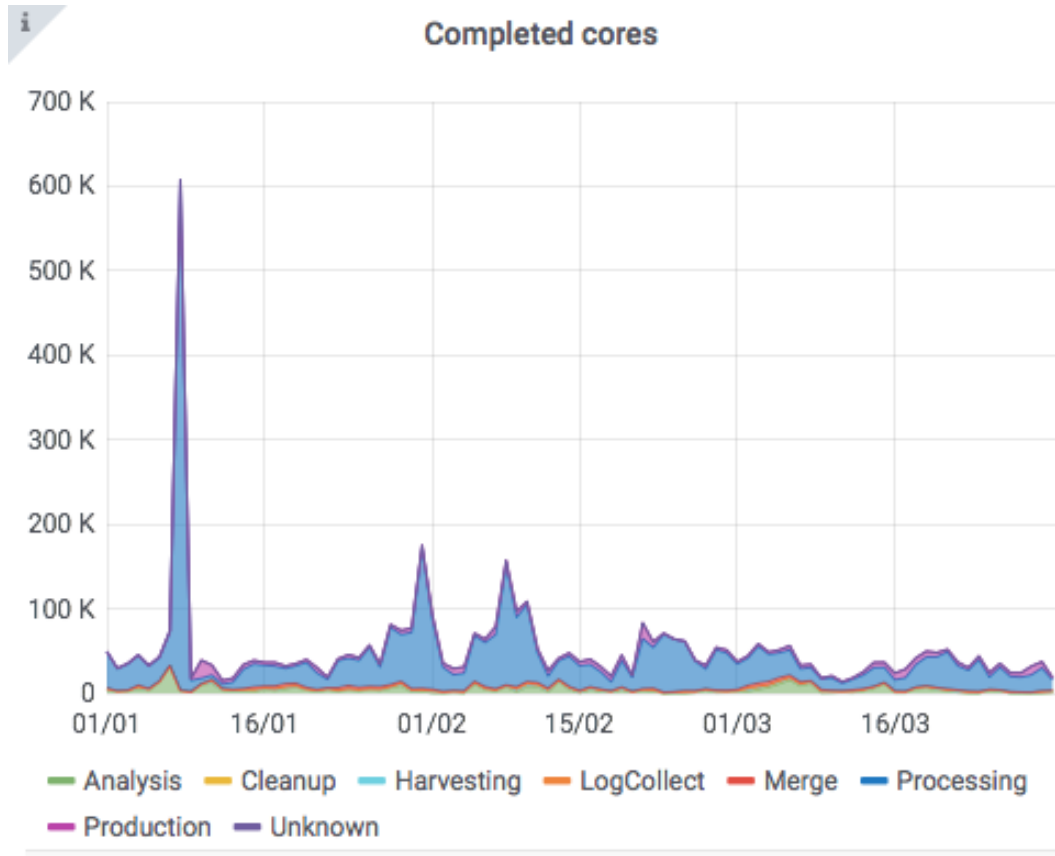
New table with HS06 (but is it correct?)

- https://monit-grafana.cern.ch/d/C8ewaCrWk/hs06-report?orgId=11&from=1577836800000&to=1585695599000


Production > HS06 report   2020-01-01 00:00:00 to 2020-03-31 23:59:59

### CPU Usage in jobs

| Tier	Site ▲	Job Count	Failed jobs	CPU Eff	HS06CoreHr	CpuTimeHr	CoreHr	Avg Queue time
T1	T1_DE_KIT	1800975	136232	74.7%	733263221.03	14194886.59	19005995.53	11:43:26
T1	T1_ES_PIC	747980	70038	72.6%	203695638.79	3384312.68	4663660.46	09:08:33
T1	T1_FR_CCIN2P3	1592467	173355	82.0%	215803591.62	11412166.84	13911254.25	10:00:45
T1	T1_IT_CNAF	1833746	129390	81.0%	681.76	11620627.03	14342111.77	07:42:52
T1	T1_RU_JINR	2835491	230547	73.5%	1957.27	15839591.03	21560809.77	10:26:43
T1	T1_UK_RAL	1413774	319372	59.8%	368722376.99	7780697.71	13018151.52	10:56:11
T1	T1_US_FNAL	5121922	508178	79.5%	355.15	33218404.98	41803396.71	08:18:02
T2	T2_AT_Vienna	264370	92490	68.8%	0	220625.54	320896.32	04:15:18

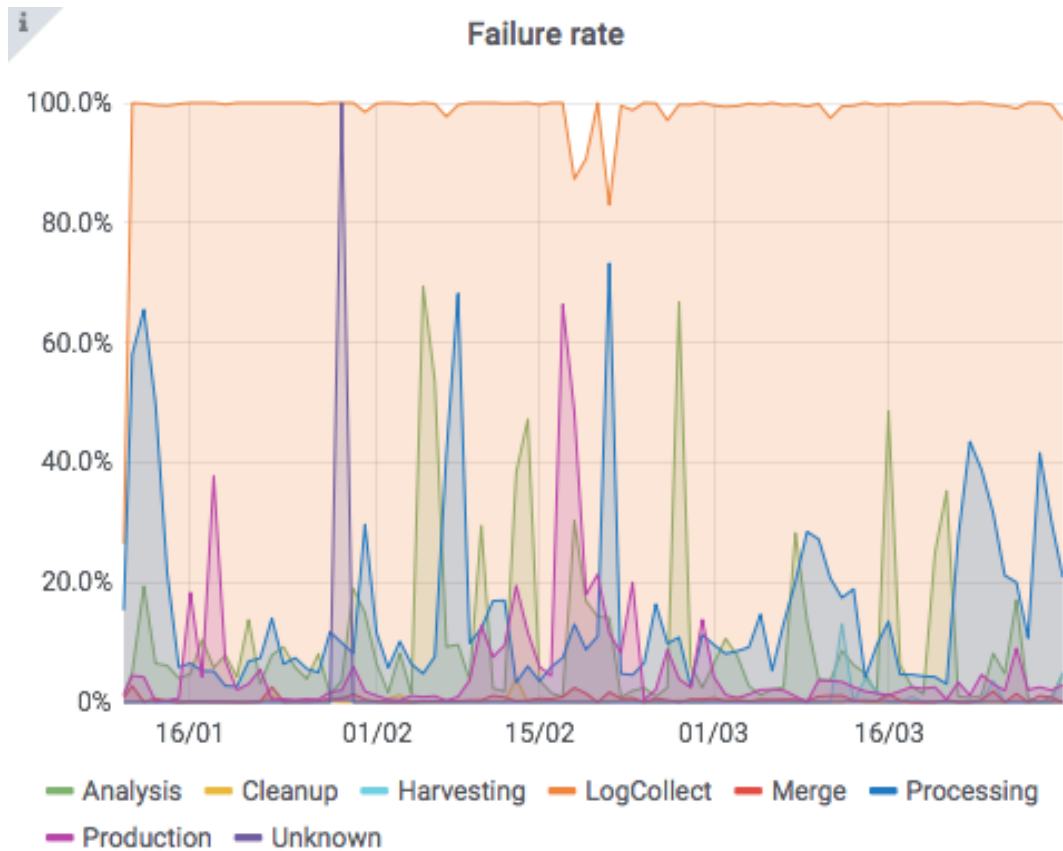# CPU efficiency – including failed jobs
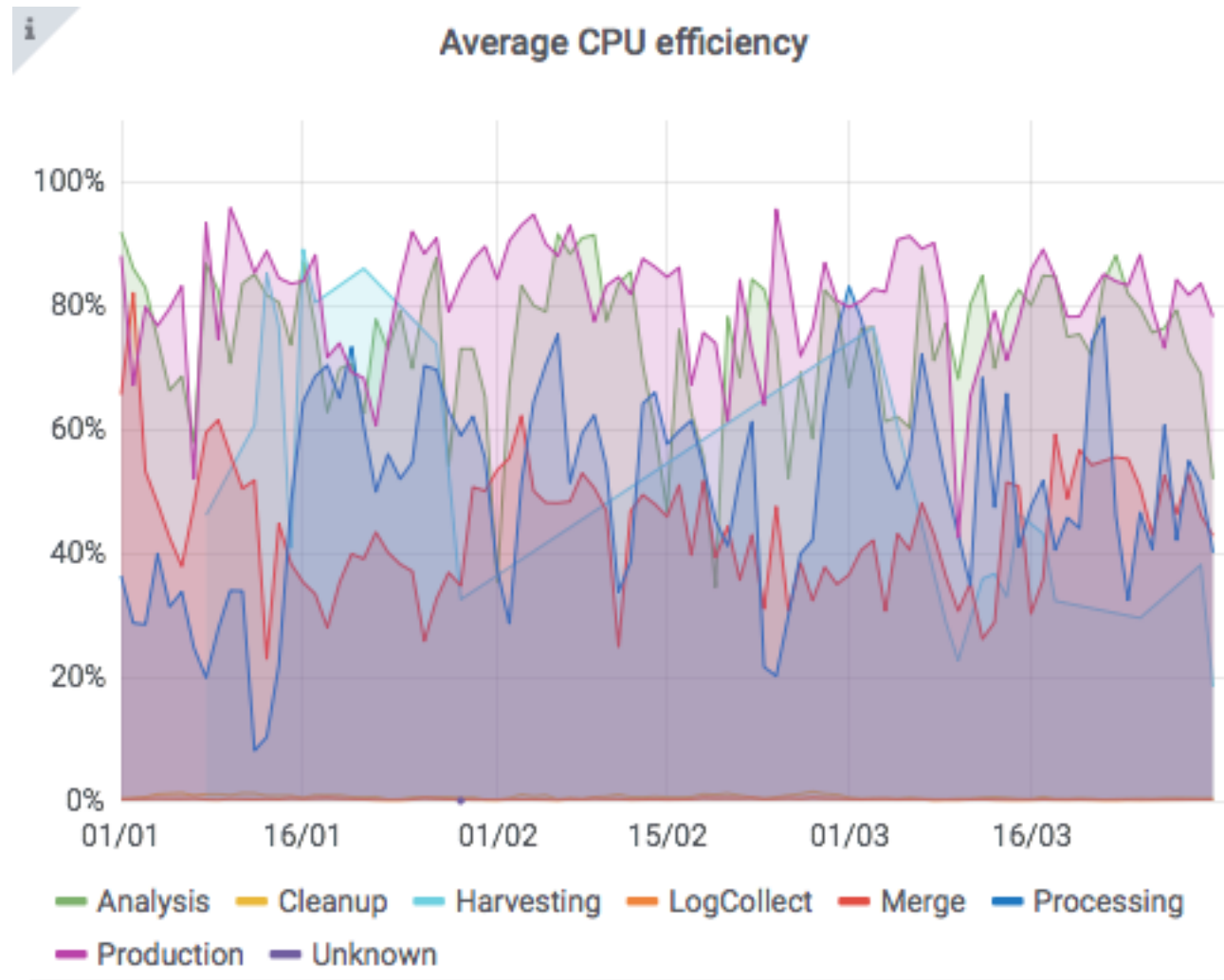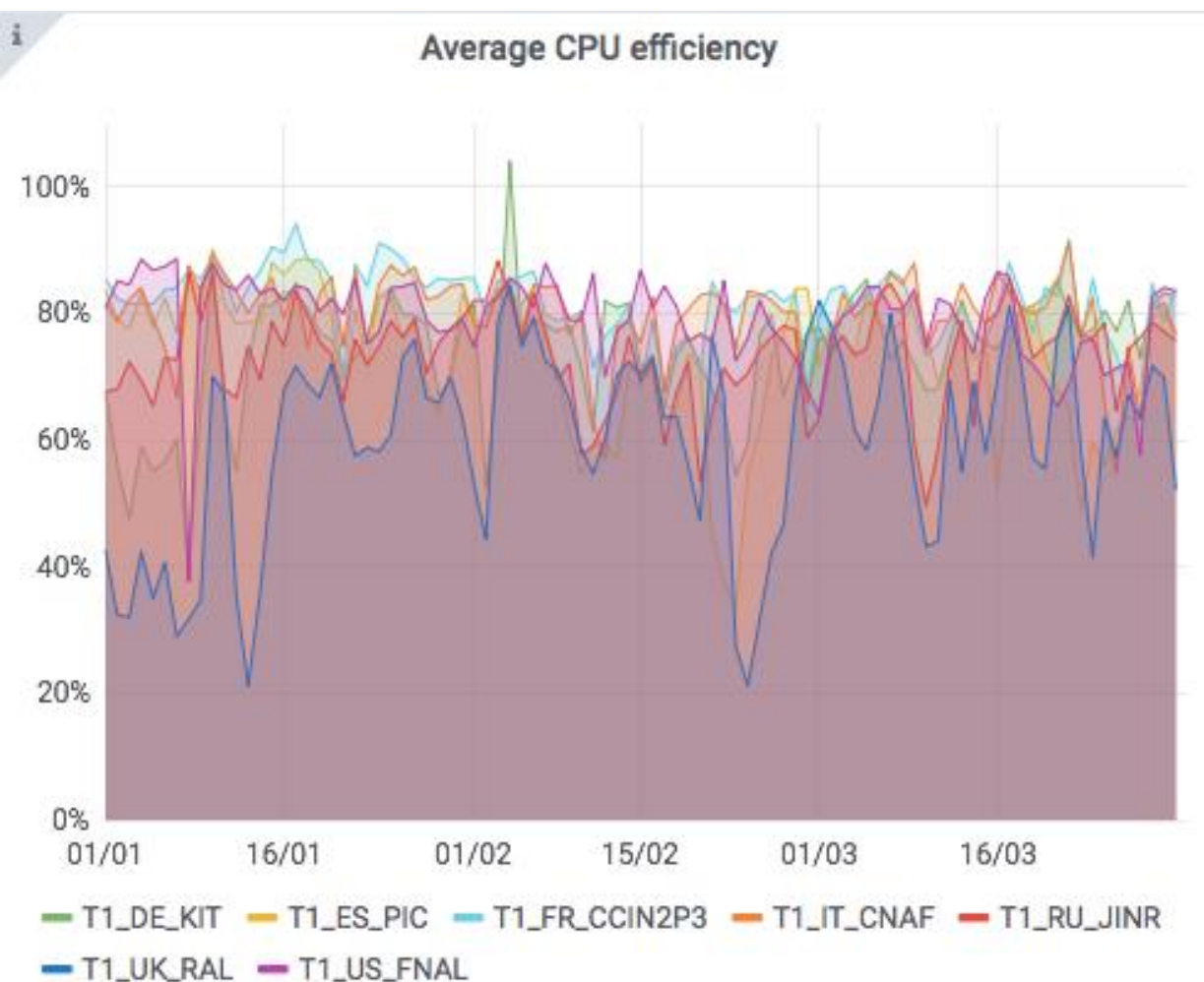
Offsite reads – not particularly a problem, Q1
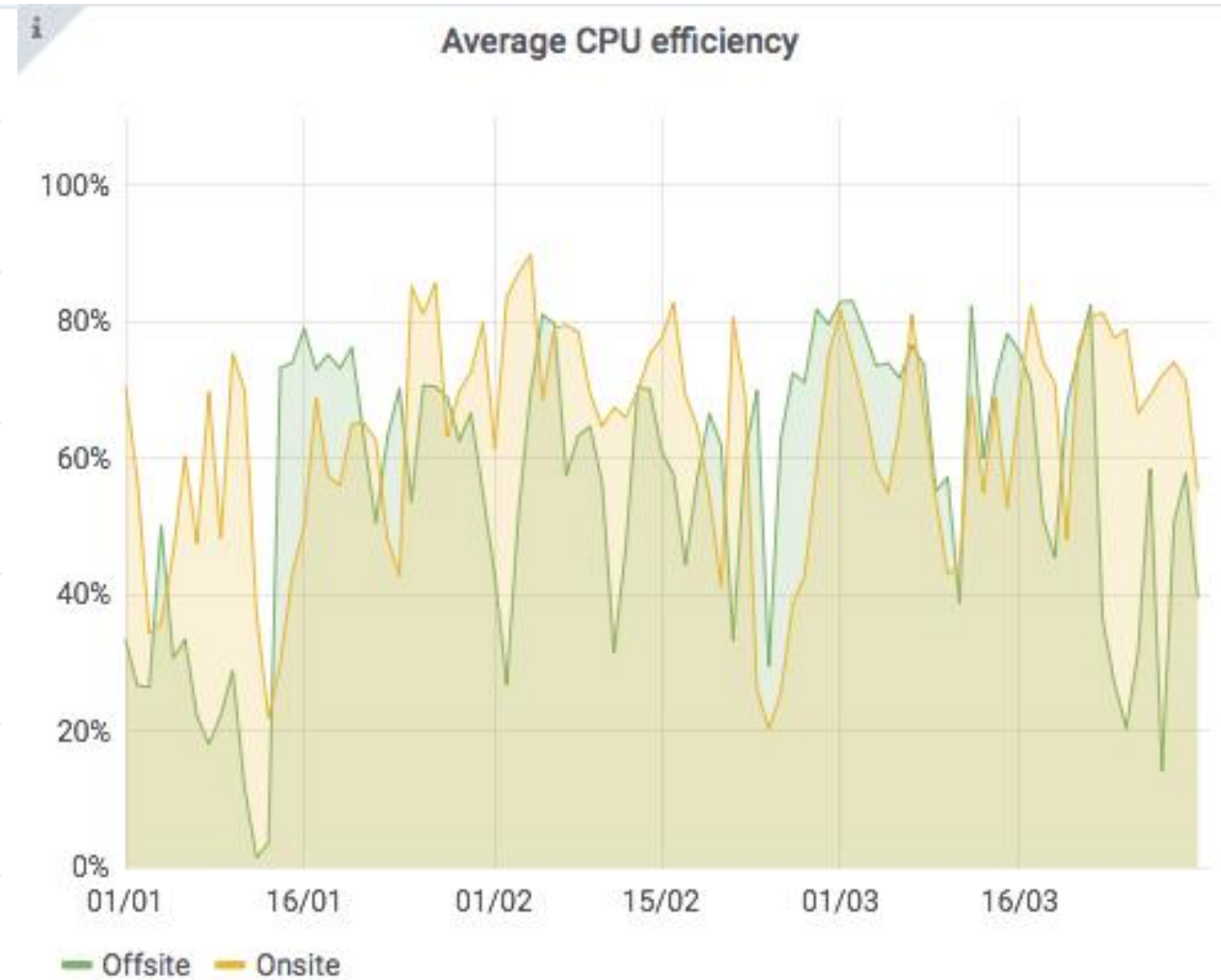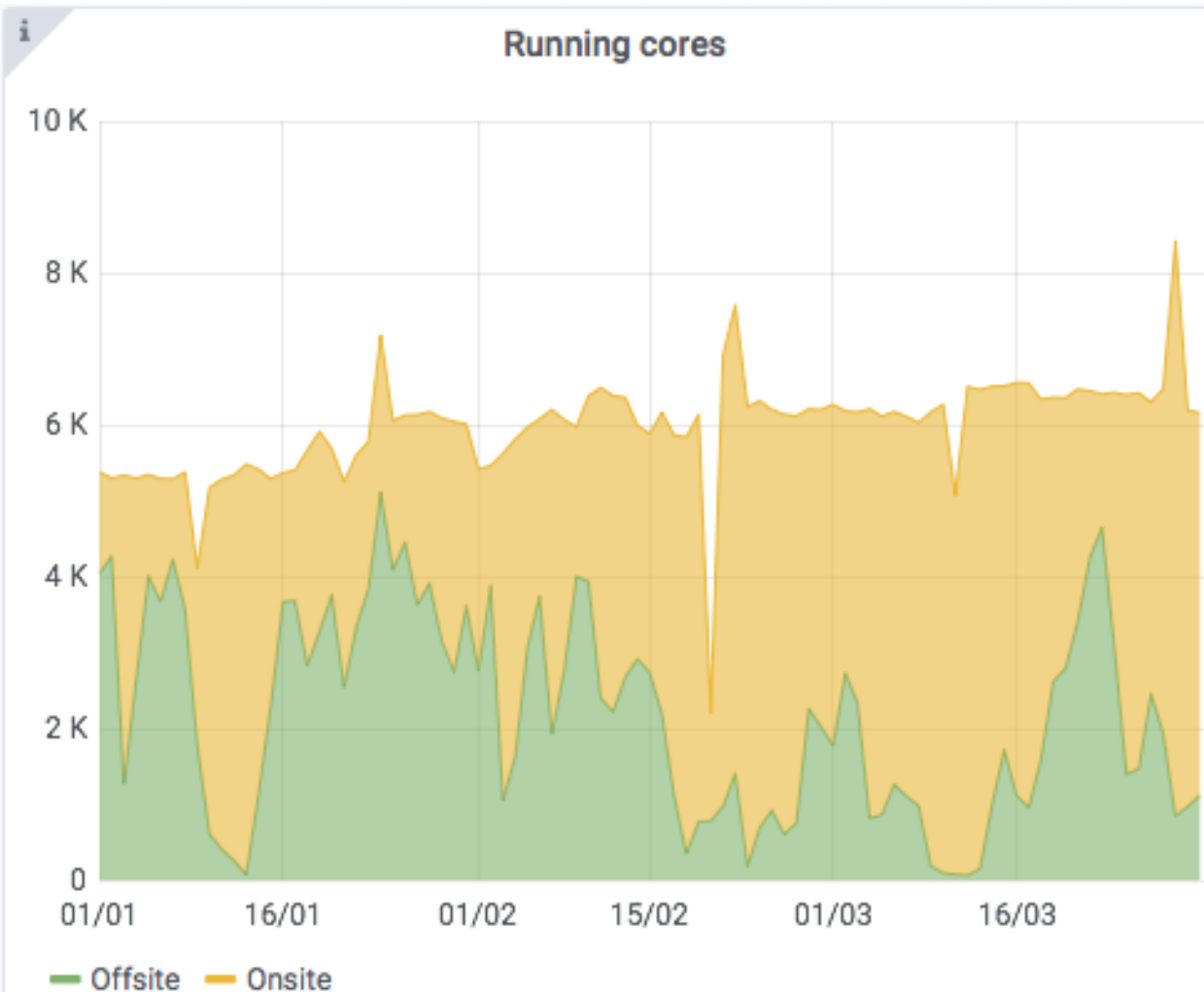
Failed jobs

I have cut out the start of the plot as it has a big spike and detracts from my point!
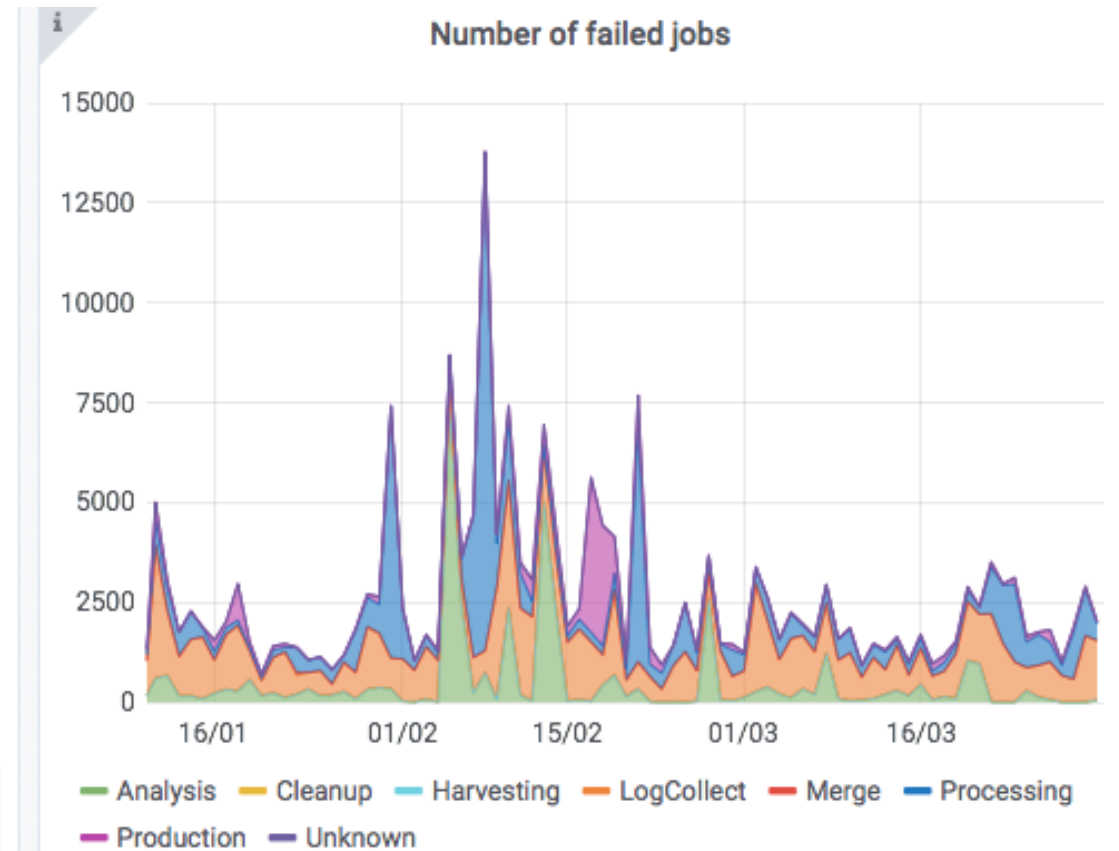
Large proportion of failing jobs are LogCollect, which still fail at a rate of 100%

Disk usage

Numbers are taken from the webpage * on the last day of the month, disk used by Phedex as proportion of pledge for Phedex.

End month	Echo usage (TB)	Allocation (TB)	RAL %	FNAL %	IN2P3 %	PIC %	CNAF %	KIT %	JINR %
January	4756	5440	87	79	84	89	68	78	76
February	4768	5440	88	77	83	92	65	83	76
March	4535	5440	83	76	83	76	67	80	74

* http://cmsmonitoring.web.cern.ch/cmsmonitoring/storageoverview/2019/11/30/meeting.html

Tape usage

End month	Castor usage (TB)	Allocation (TB)	RAL %	FNAL %	IN2P3 %	PIC %	CNAF %	KIT %	JINR %
January	14663	17600	83	81	89	87	82	82	85
February	15442	17600	88	83	90	88	84	88	88
March	15707	17600	89	87	94	92	86	91	90