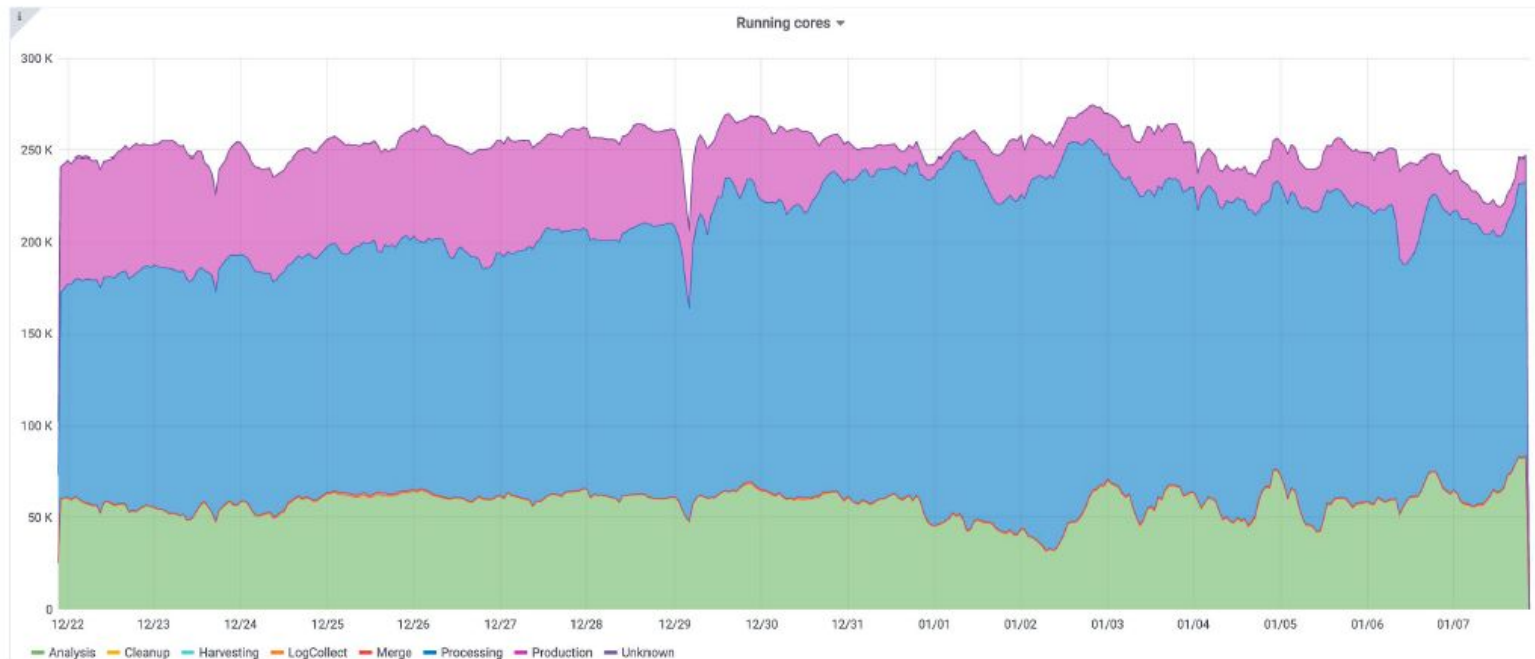


CMS - CDG Tier1

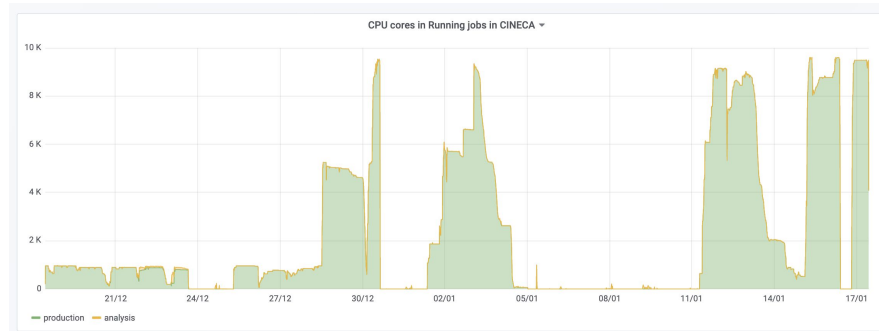
Holiday Break Production

- Excellent performance during the break
- Not by chance: careful preparation in December, heroic intervention on MongoDB on Jan 1st
 - Good teamwork!

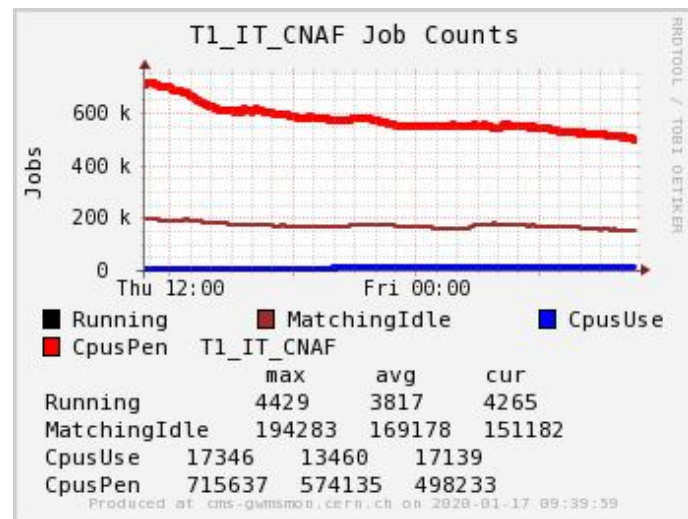


Stato CINECA

- In produzione da ~ 10 Dicembre come test, da ~Natale per jobs veri fino a 9600 cores utilizzati
- A parte il monte ore utilizzato, molto interessante come test per le nuove feature di HTCondor per CMS
 - Tutti i jobs CMS che arrivano al CNAF arrivano anche al CINECA
 - Il CE al CINECA (grazie Stefano DP!) fa cherry picking dei jobs opportuni
 - Low RAM, low I/O
 - To be done: modifica dei payload per KNL sul WN: visto che i cores sono 3x piu' lenti dei cores Xeon → cambiare aumentare livello di multithreading 3x
 - Discussione con Condor ora, interessante in generale, non essenziale per cineca. Grazie Daniele Spiga!
- Una piccola nota: Marconi “abbastanza instabile” per i nostri standard: problemi almeno settimanali che ammazzano tutto, e poi bisogna ripartire. Spesso rete o FS
- Usato ~ 15% del pledge nella pausa natalizia



Ultimi 30gg ... sistema autolimitato a 9600 cores



Visto che per CMS CINECA e' un pezzo di CNAF, il T1 e' "visto da CMS" come un sito con 17k cores attivi (8k CNAF, 9k CINECA)

Nuova Site Readiness (in produzione a breve)

- the new SAM evaluation has a shorter lifetime for results, a little over half an hour compared to the one and a half day of the old evaluation; giving SAM tests preference is now more important than previously; please check your site gives higher priority to jobs with the lcgadmin role (or Andrea's DN).
- new Site Readiness has a value which is the fraction of 15 minute intervals ok/warning evaluations within the time period, thus can be smaller than either SAM, HC, or FTS values. (Example: all tests are ok but all data transfers occurred in the first 15 minutes of the day. SAM = HC = FTS = 100% but Site Readiness 1/96 = 1%. Site Readiness status will be ok!)
- new SAM metric makes a site evaluation for each 15 minute period and then takes as availability the ok/warning fraction during the day; old SAM3 site availability is the lowest(SRM)/highest(SE, xrootd) service availability of the day. (Example 1: CE in error in the morning, SE in error in the afternoon, old SAM3 50%, new SAM 0%. Example 2: One of two CEs in error in the morning, the other in the afternoon, old SAM3 50%, new SAM 100%.)

N.B. : E' importante dare prioritá' ai job dei SAM test (role lcgadmin).

DN = /DC=ch/DC=cern/OU=Organic Units/OU=Users/CN=sciaba/CN=430796/CN=Andrea Sciaba

SR summary: https://test-cmsst.web.cern.ch/sitereadiness/sum_report.html

SR report: <https://test-cmsst.web.cern.ch/sitereadiness/report.html>

Site status: <https://test-cmsst.web.cern.ch/siteStatus/summary.html>

Report WLCG ottobre

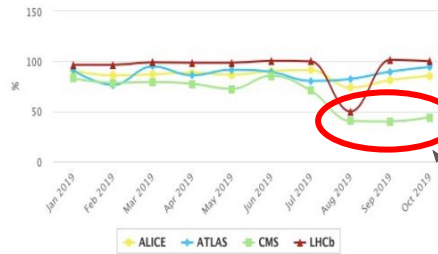


WLCG Accounting

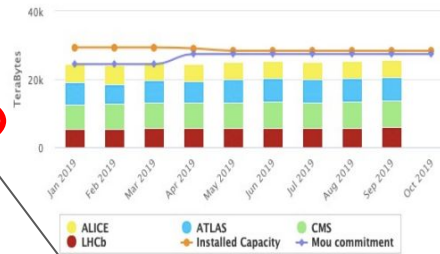
January to October 2019

Centre: IT-INFN-CNAF

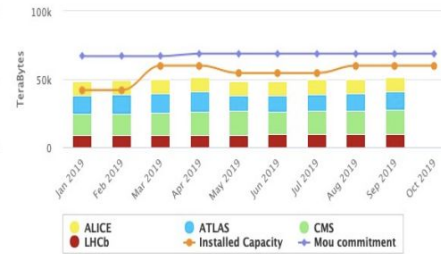
IT-INFN-CNAF: Efficiency as CPU vs Wallclock time



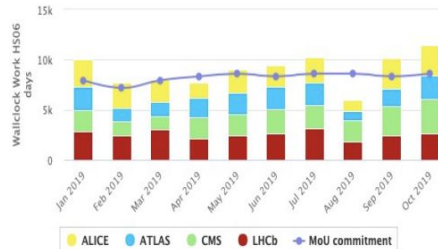
IT-INFN-CNAF: Disk Storage Used



IT-INFN-CNAF: Tape Storage Used



IT-INFN-CNAF: Wallclock Work*



Calo di efficienza da capire...
Anche in altri T1, ma al CNAF e' piu' pronunciata

Report WLCG Novembre (ok!)

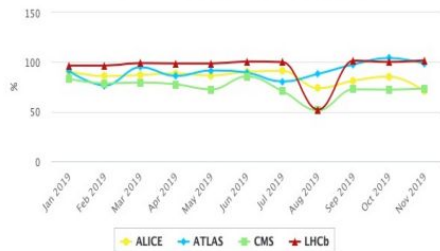


WLCG Accounting

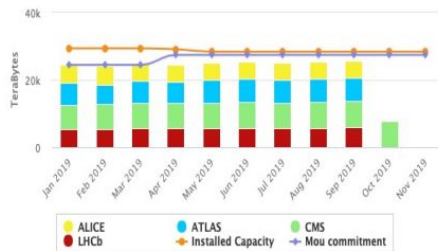
January to November 2019

Centre: IT-INFN-CNAF

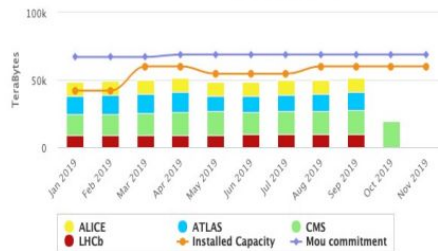
IT-INFN-CNAF: Efficiency as CPU vs Wallclock time



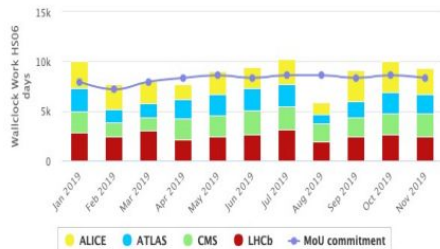
IT-INFN-CNAF: Disk Storage Used



IT-INFN-CNAF: Tape Storage Used

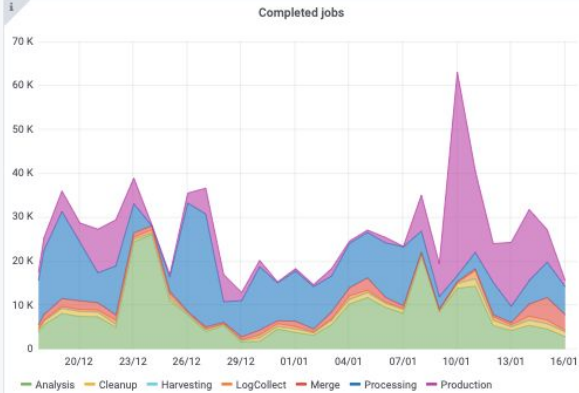


IT-INFN-CNAF: Wallclock Work*

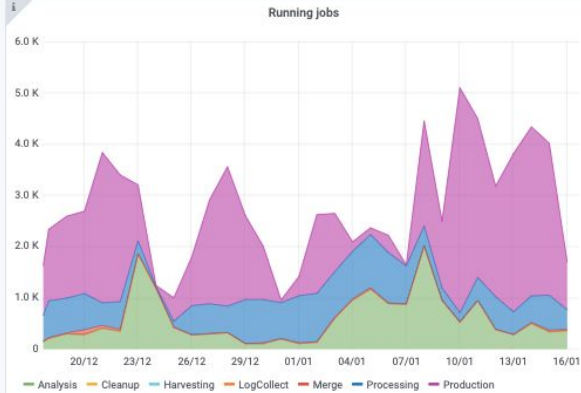


Job al CNAF ultimo mese

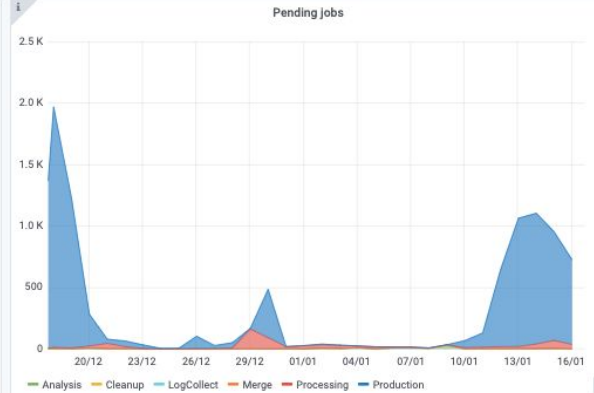
800765 completed



4016 running jobs



952 pending jobs



Total completed jobs



	total	percentage
Processing	281667	35.2%
Analysis	252563	31.5%
Production	190312	23.8%
Merge	37486	4.7%
Cleanup	23199	2.9%
LogCollect	15457	1.9%
Harvesting	91	0.0%

Currently running jobs



	current	percentage
Production	928	54.7%
Processing	383	22.6%
Analysis	359	21.2%
Merge	25	1.5%
Cleanup	1.1	0.1%
LogCollect	0.53	0.0%
Harvesting	0.017	0.0%

Currently pending jobs

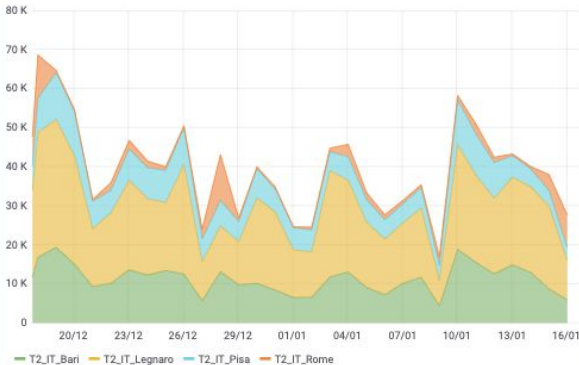


	current	percentage
Production	688	95%
Processing	36	5%
Merge	0.46	0%
Analysis	0.2	0%
LogCollect	0.18	0%
Cleanup	0.09	0%

Job siti italiani ultimo mese

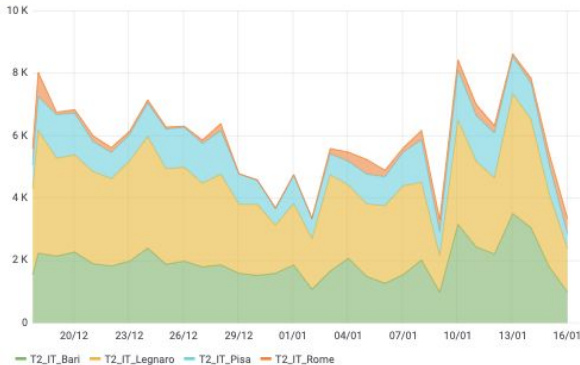
1188444 completed

Completed jobs



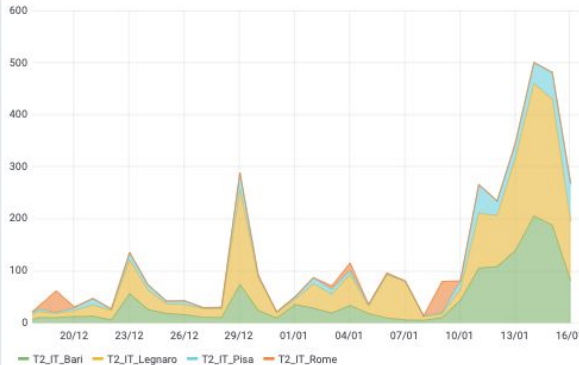
5419 running jobs

Running jobs



481 pending jobs

Pending jobs



Total completed jobs



	total	percentage
T2_IT_Legnaro	577181	48.6%
T2_IT_Bari	340647	28.7%
T2_IT_Pisa	204276	17.2%
T2_IT_Rome	66340	5.6%

Currently running jobs



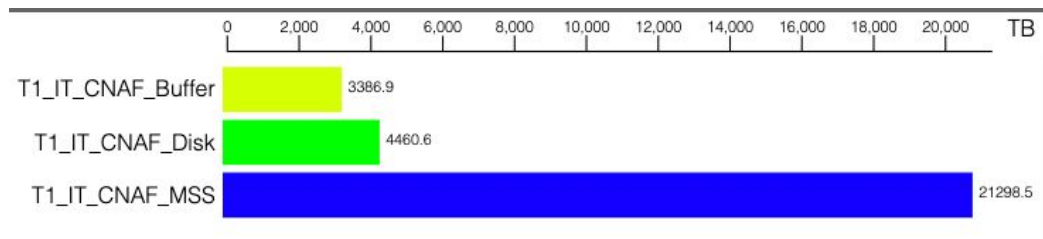
	current	percentage
T2_IT_Legnaro	1392	41.5%
T2_IT_Bari	1001	29.8%
T2_IT_Rome	509	15.2%
T2_IT_Pisa	452	13.5%

Currently pending jobs

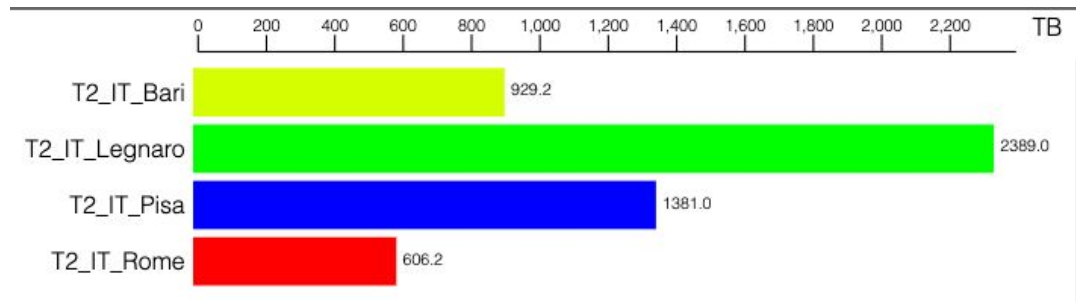


	current	percentage
T2_IT_Legnaro	114	42%
T2_IT_Bari	82	30%
T2_IT_Pisa	73	27%
T2_IT_Rome	0.008	0%

Storage utilizzato centralmente da CMS in italia (dynamo)



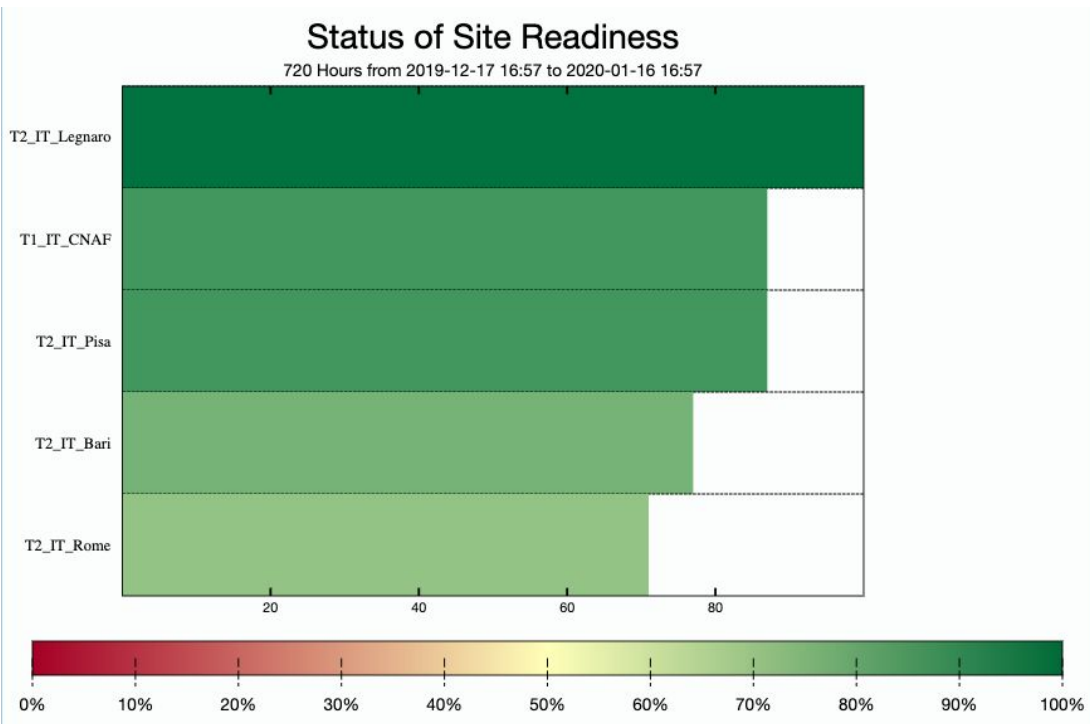
T1	pledge 2019
CPU (kHS06)	78.251
DISK (TBN)	8020
TAPE (TB)	26520



Pledges

Situazione Fine 2019		
kHS06	TBN	
33.2875	2,290.25	Bari
28.3875	2,441.25	Pisa
29.5375	2,840.25	Legnaro
27.7875	1,698.25	Roma1
119	9,270.00	

Site readiness siti italiani ultimo mese



Situazione migliorata anche per Pisa (e Roma)