

ML

25/11/2011
V0.7

2012 LHC Schedule

DRAFT!!!

	Jan					Feb			Mar				
Wk	1	2	3	4	5	6	7	8	9	10	11	12	13
Mo	2	9	16	23	30	6	13	20	27	5	12	19	26
Tu													
We					1-Feb								
Th	Technical stop								1-Mar				
Fr										Machine checkout			
Sa						Hardware commissioning							
Su													

	Apr				May				June				
Wk	14	15	16	17	18	19	20	21	22	23	24	25	26
Mo	2	Easter 9	16	23	30	7	14	21	Whit 28	4	11	18	25
Tu					1st May								
We													
Th			MD			Ascension							
Fr	G. Friday												
Sa													
Su													

Central operations over the holiday break: best effort

Plots shown for 12/26/11-1/9/12

T0

LHE file production for 8 TeV MC

Commissioning of new Tier-0 infrastructure based on WMAgent

T1 processing:

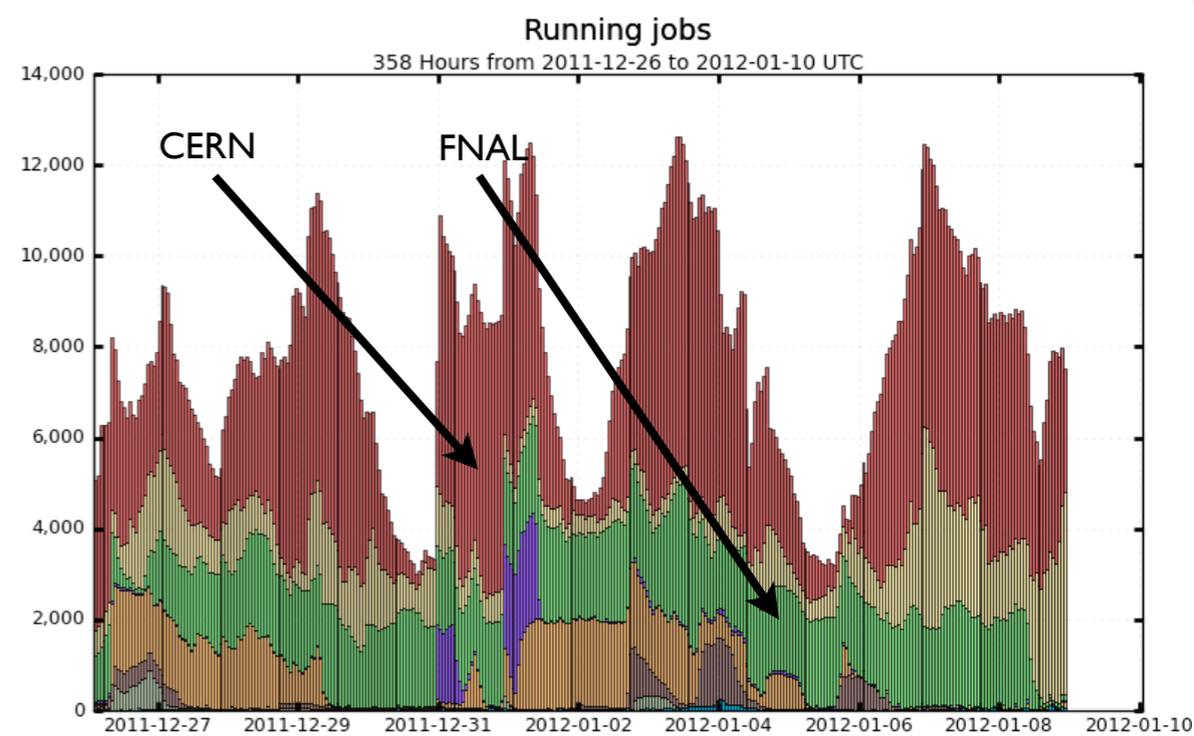
New MC reprocessing campaign with updated tracker alignment

FNAL also used for LHE file production, not tracked in Dashboard plots

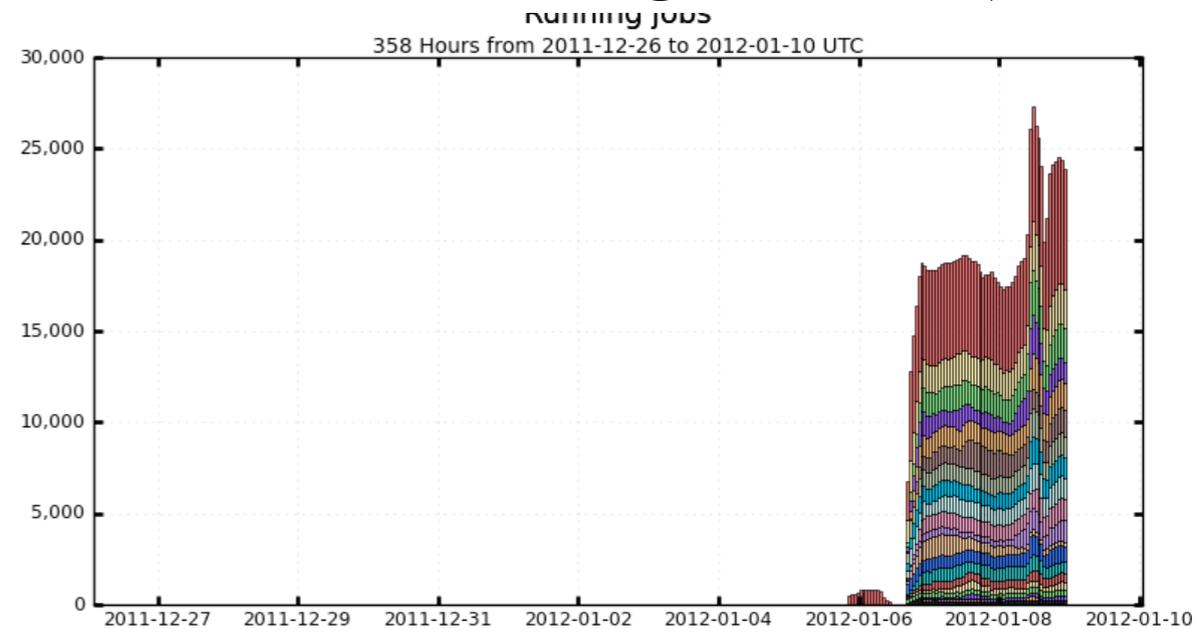
MC production on T2 level

No work!

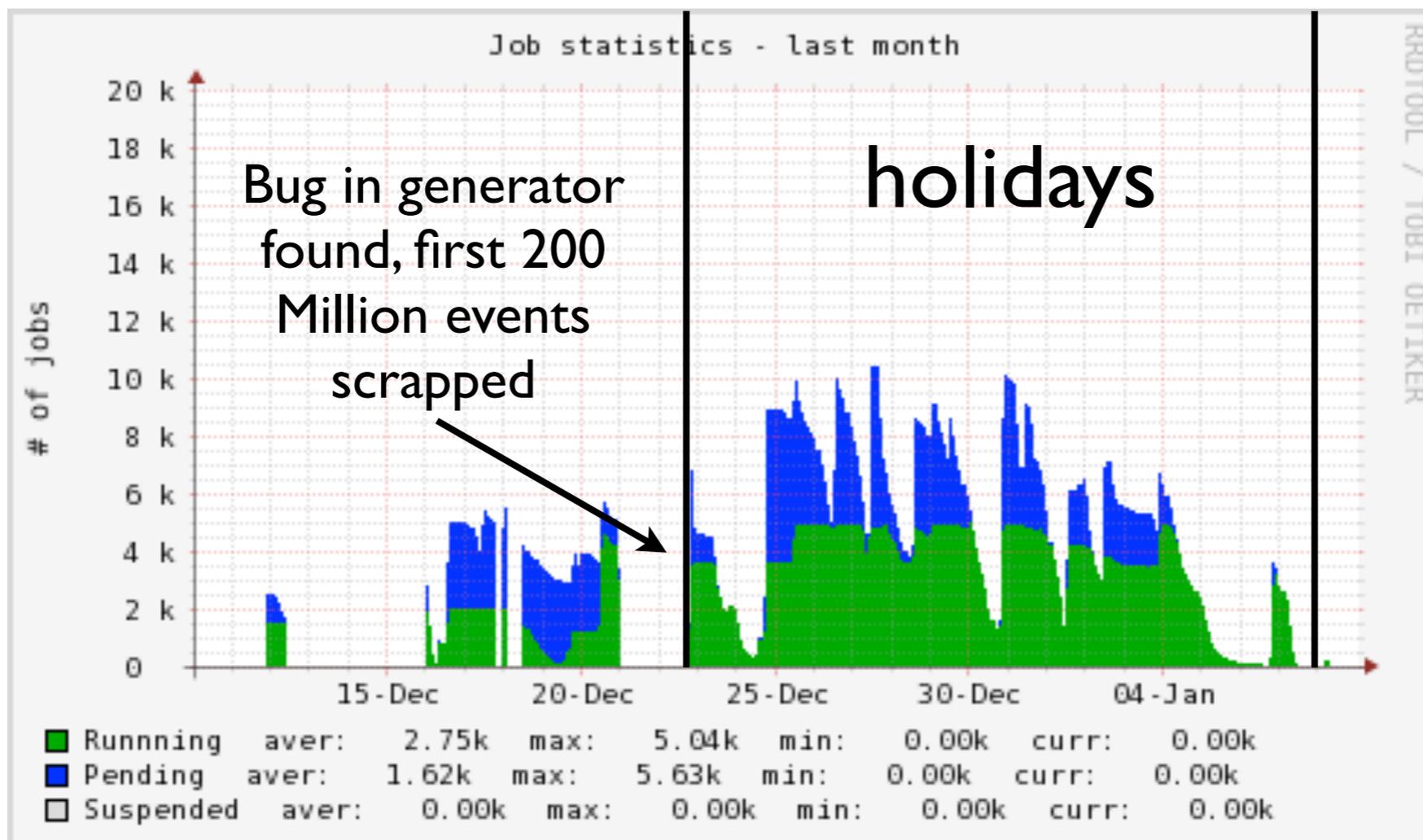
Analysis of data and MC



Tier-1 level: average 7,745 jobs



Tier-2 level: average 3,224 jobs



▶ Producing LHE files in 8 TeV for 2012

▶ Generators are run, events are filtered and LHE format is written out (xml based software independent storage of hard scattering of generated collision)

▶ Due to low filter efficiencies and constraints due to phase space requirements, jobs can run for several days in some cases

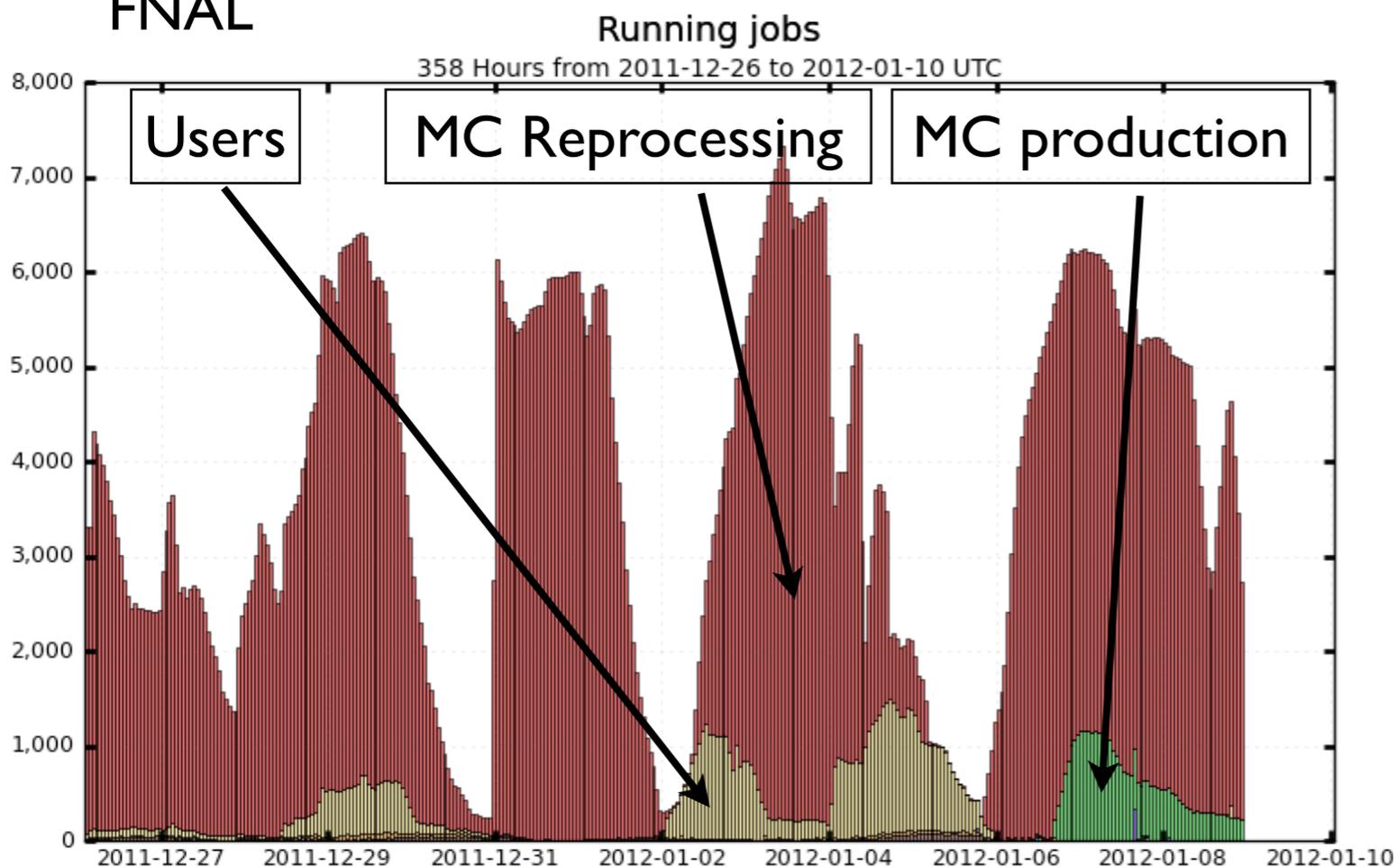
▶ LHE file production not yet integrated into the WMAgent infrastructure

▶ Is currently being run with simple script setup and direct LSF submission

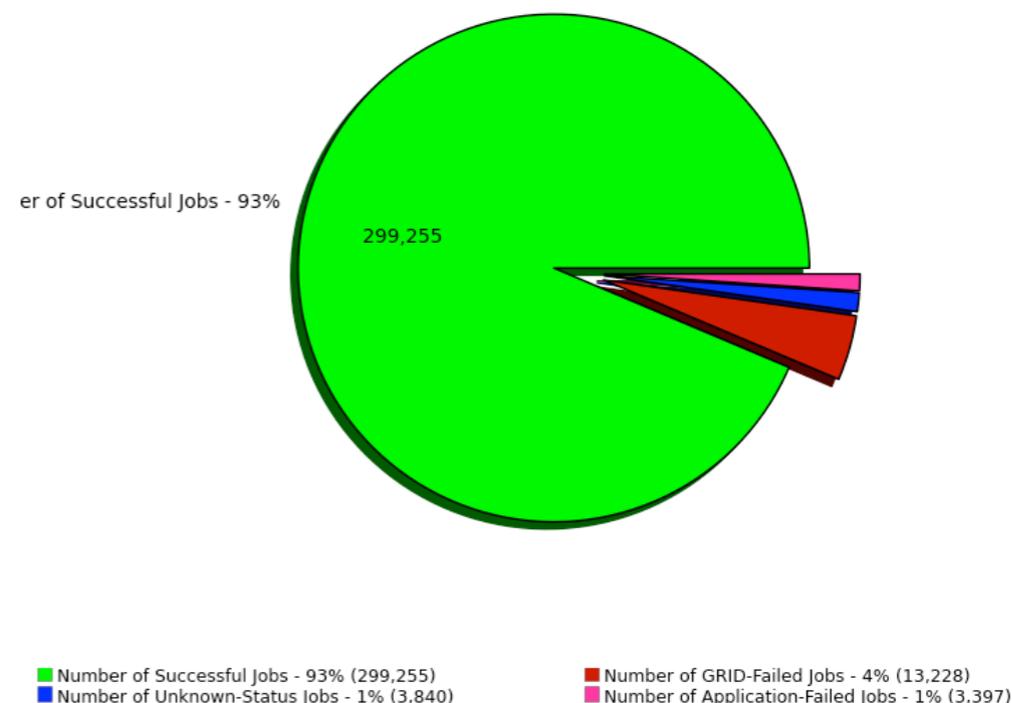
▶ Very good resource utilization

▶ Amongst CERN and FNAL, over 3 Billion events generated (which now need to be simulated and reconstructed, can start when software version for 2012 is available and validated)

FNAL



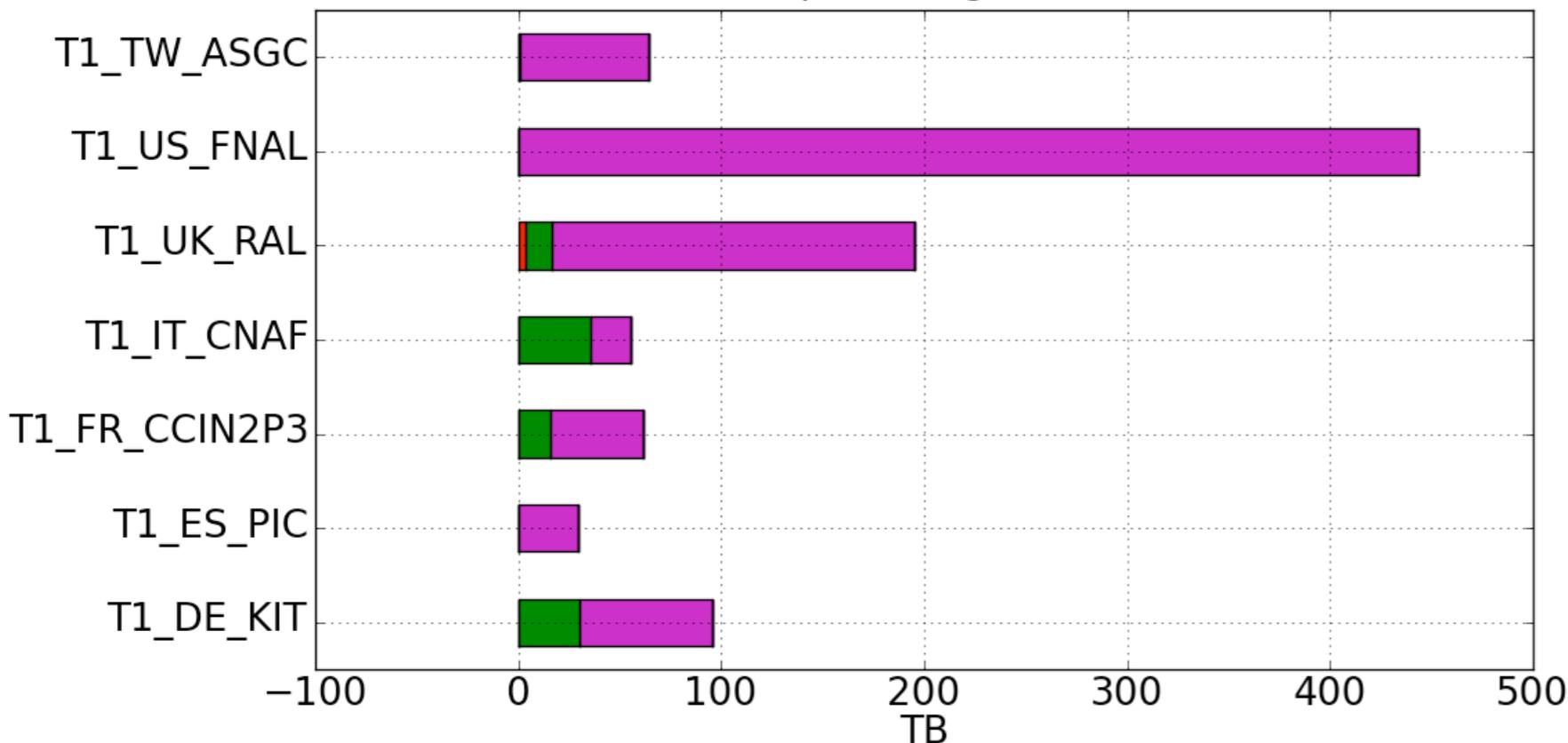
Number of Successful and Failed Jobs (Pie Graph) (Sum: 319,720)



Success rate 12/26/11 - 1/9/12: 93%

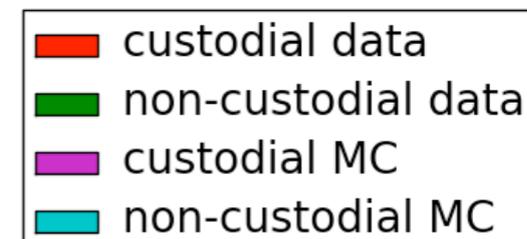
- ▶ LHE file production not tracked in DashBoard plots
- ▶ From Gratia weekly monitoring, resource usage very good (> 90%)

Delta Tape Storage Overview



Last week

Tails of the 2011 data re-reconstruction pass



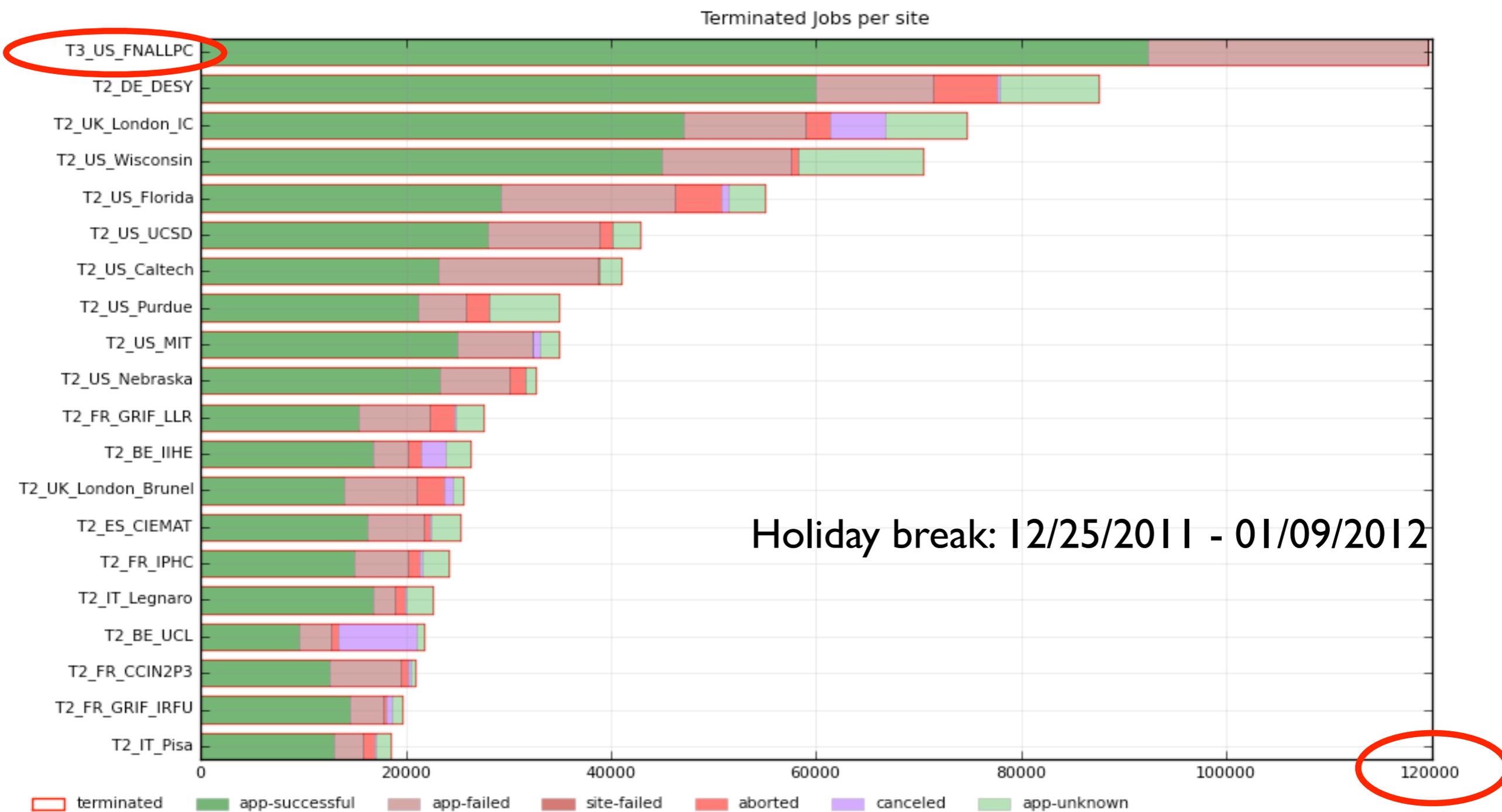
Reminder

Non-custodial datasets are disk only at FNAL

Statistics: 12/25/2011 - 01/09/2012

	Custodial [TB]		Non-Custodial [TB]		Total [TB]	
	Last week	Total	Last week	Total	Last week	Total
Data	0.14	5092.66	-0.03	2238.57	0.11	7331.23
MC	443.24	4679.41	0.00	46.31	443.24	4725.72
Total	443.38	9772.07	-0.03	2284.88	443.35	12056.95

► Net data/MC written at FNAL in last week: **443 TB**



► User analysis

- Level of activity: only 120k jobs in 2 weeks
- USCMS facility **highest** number of analysis jobs per site