

# DPD Production: volume estimate

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*with thanks to Matthew, Paul, Lei and group contacts for input*

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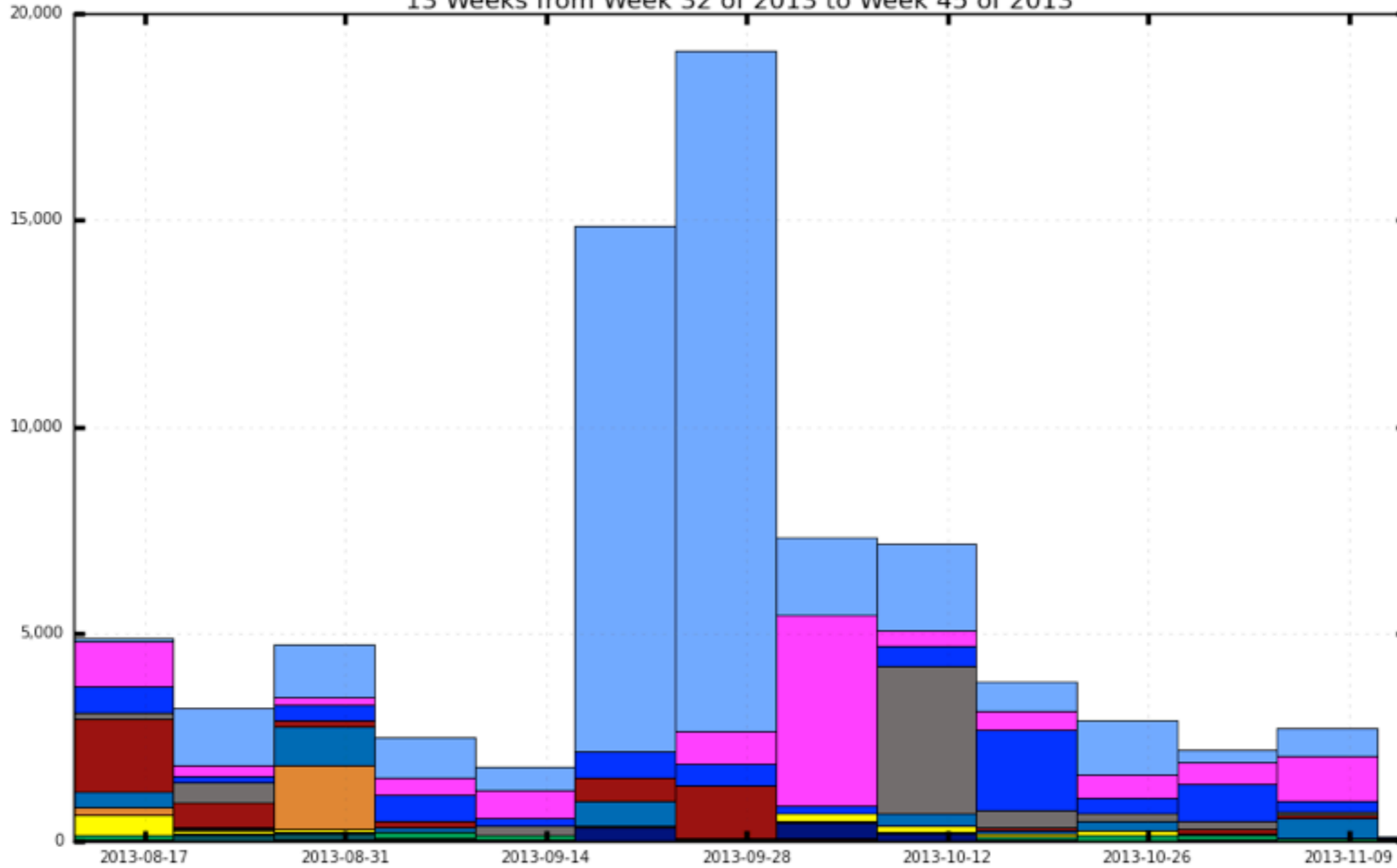
# DPD production in the past 3 months



Running jobs

*mostly quiet period*

13 Weeks from Week 32 of 2013 to Week 45 of 2013



<http://cern.ch/go/D65w>

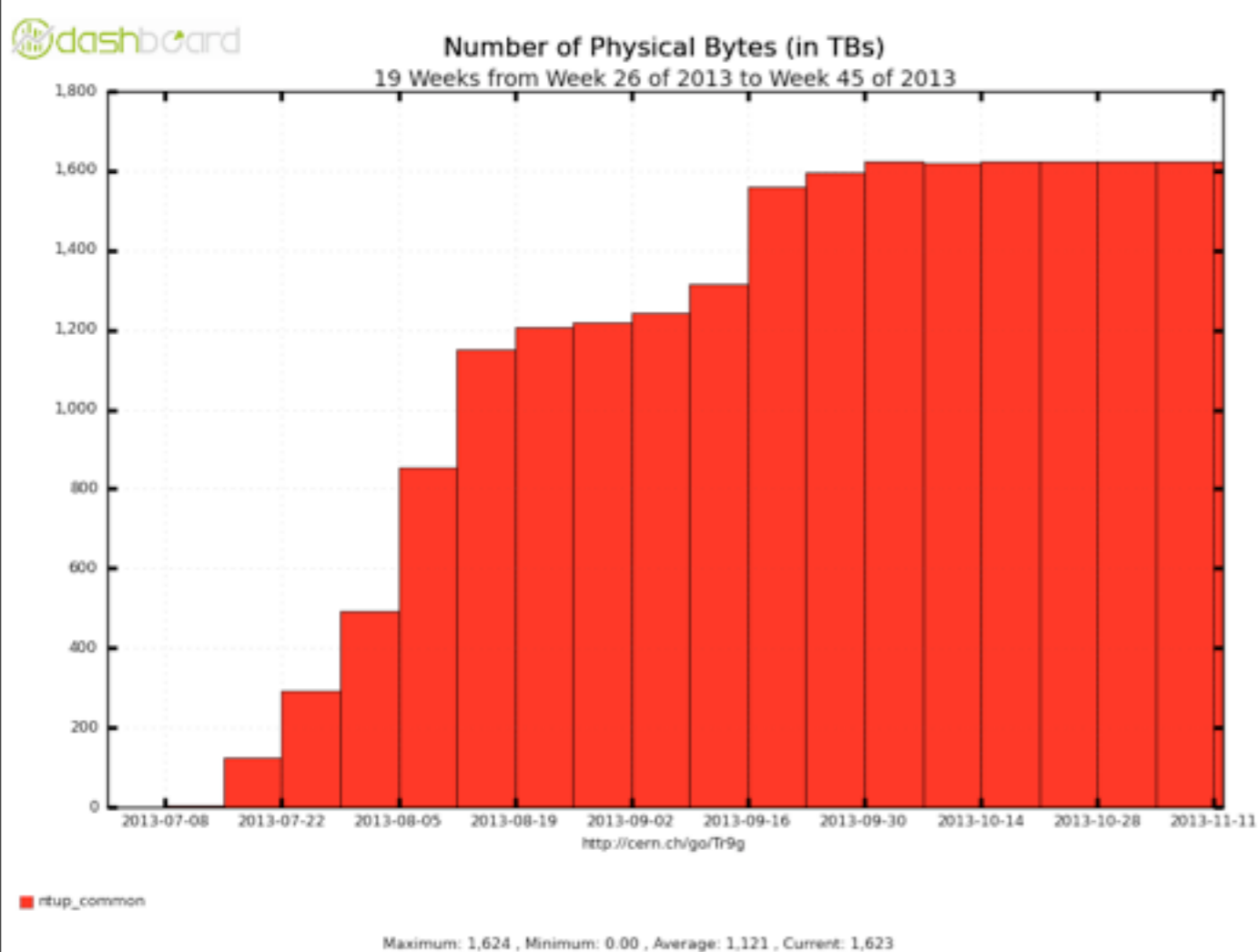
- gp\_higgs
- gp\_top
- gp\_susy
- gp\_sm
- gp\_jetmet
- gp\_egamma
- gp\_indet
- gp\_tau
- gp\_exotics
- gp\_phys-valid
- xp\_higgs
- gp\_bphysics
- gp\_muon
- gp\_trig-hit
- gp\_btagging
- gp\_validation
- gp\_trigger
- xp\_top

Maximum: 19,095 , Minimum: 0.00 , Average: 5,155 , Current: 78.71

# Data on datadisk as primary replica: NTUP\_COMMON output

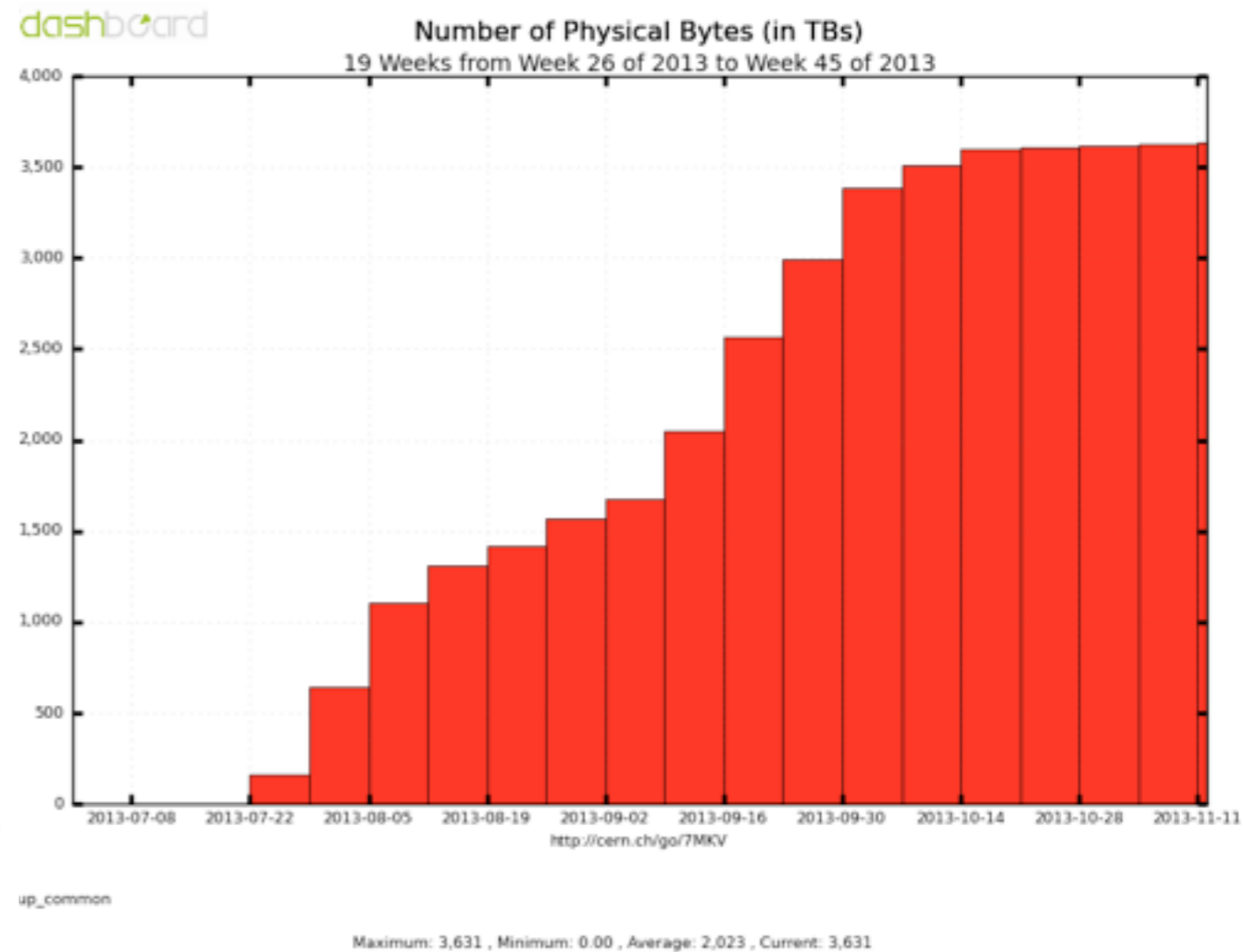
*Plots from DDM Accounting page using Historical Views under “Physical Definitions”.  
There are also set of plots under “Global ATLAS-wide Logical Definitions” which I did not use.*

## 1.6 PB on data I2



Includes physics and delayed streams.

## 3.6 PB on mc I2



Includes mc I2\_14 TeV samples for the Upgrade and Run2 studies , about 250 TB.

# Data volume estimate on NTUP\_COMMON output for upcoming productions

- NTUP\_COMMON production on data I I /mc I I requested by JetMET group:
  - For data I I (period L, M) for about 30TB and for mc I I for about 10 TB.
  - Validation samples running, green light from Physics Coordination to go on.
- Second round of NTUP\_COMMON production:
  - Already interest by b-tagging and Top groups.
  - Work going on for content optimization to reduce CPU and disk usage. Currently 17% reduction on data and 14% reduction on MC as measured on 100 events. CPU usage is still ~10s/event. Could go down to 5s/event if we do not rerun the same jet collections as in the first round, to be discussed.
  - Aim is to converge in a month. Can ADC allow us same amount of datadisk for a second round? Also need ask Physics Coordination about motivation and priorities.

# Data volume estimate on other NTUP output for upcoming productions

group	disk usage	input	status
Higgs HSG2	4.4 TB	new geometry MCI2c	requested yesterday
Higgs HSG2	1.6 TB	new geometry MCI1d	request in ~2 weeks
Exotics (Jet group related to SM/Exotics)	4 TB	skim/slim on NTUP_COMMON delayed stream	about to request
Exotics (SM WWW group)	a few TB at most	skims on data/mc	code ready, request soon
Tau	-	-	special D3PDs for the substructure, it won't be done centrally
SM	0.1% of current NTUP_SMWZ	half of data and mc	In preparation for NTUP2NTUP skim
SM	not estimated yet, 150-200 M events	MCI2	coming months
Trigger (L1Calo)	-	-	no plans until Run2
Heavy Ion	1 TB 10 TB	reprocessing of 2013 pPb data reprocessing of 2010 PbPb	plan to make NTUP_HI
Upgrade	very small	mc12_14TeV	feedback to be received