PanDA/LSST integration update

06.07.2017

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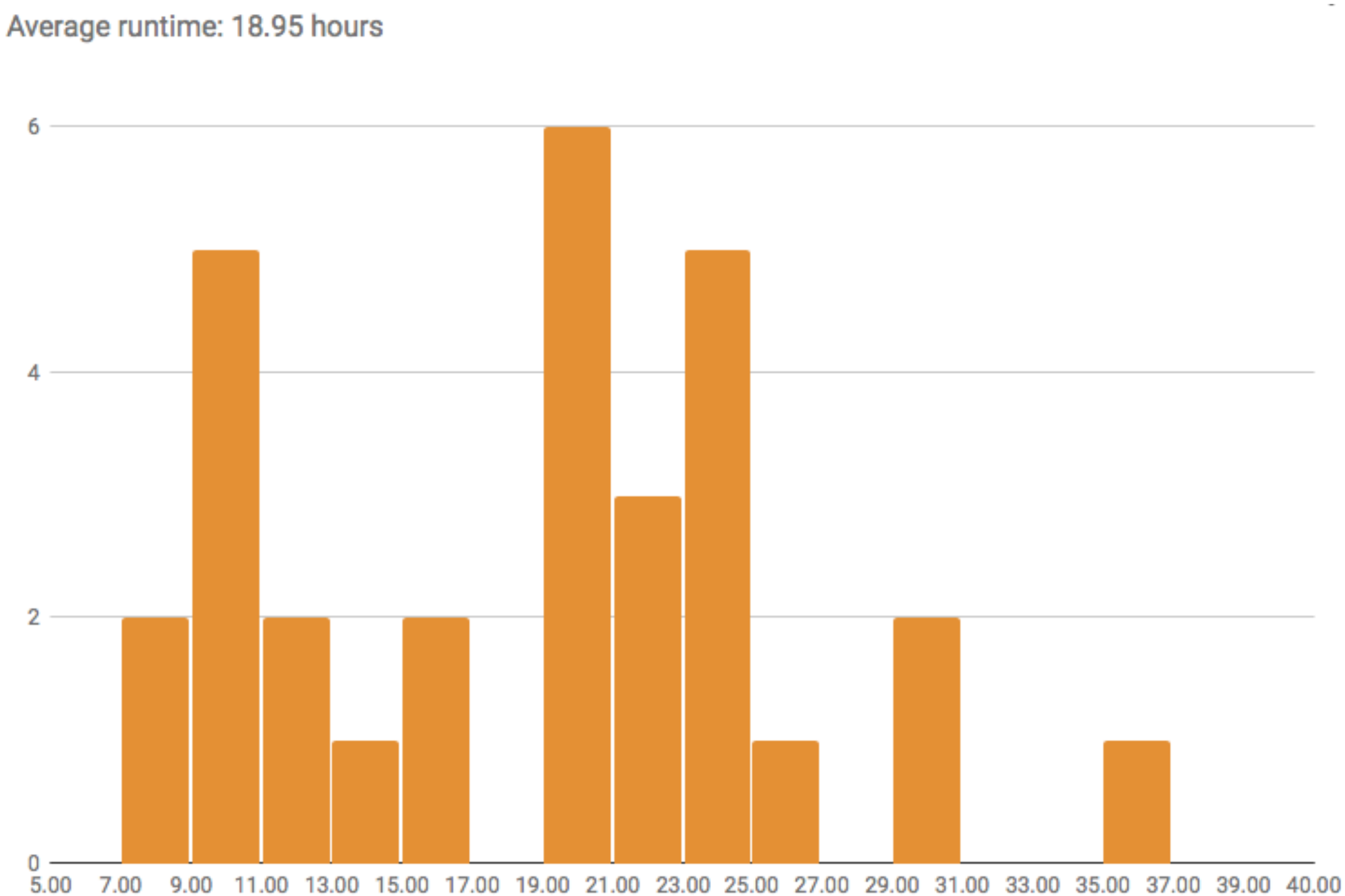
Storage & Data Transfer Details

- **Astro storage at BNL (gsiftp://xrdlsst.sdcc.bnl.gov) : 200 TB**
  - used for input (fragment of DC1) and output data for OSG site

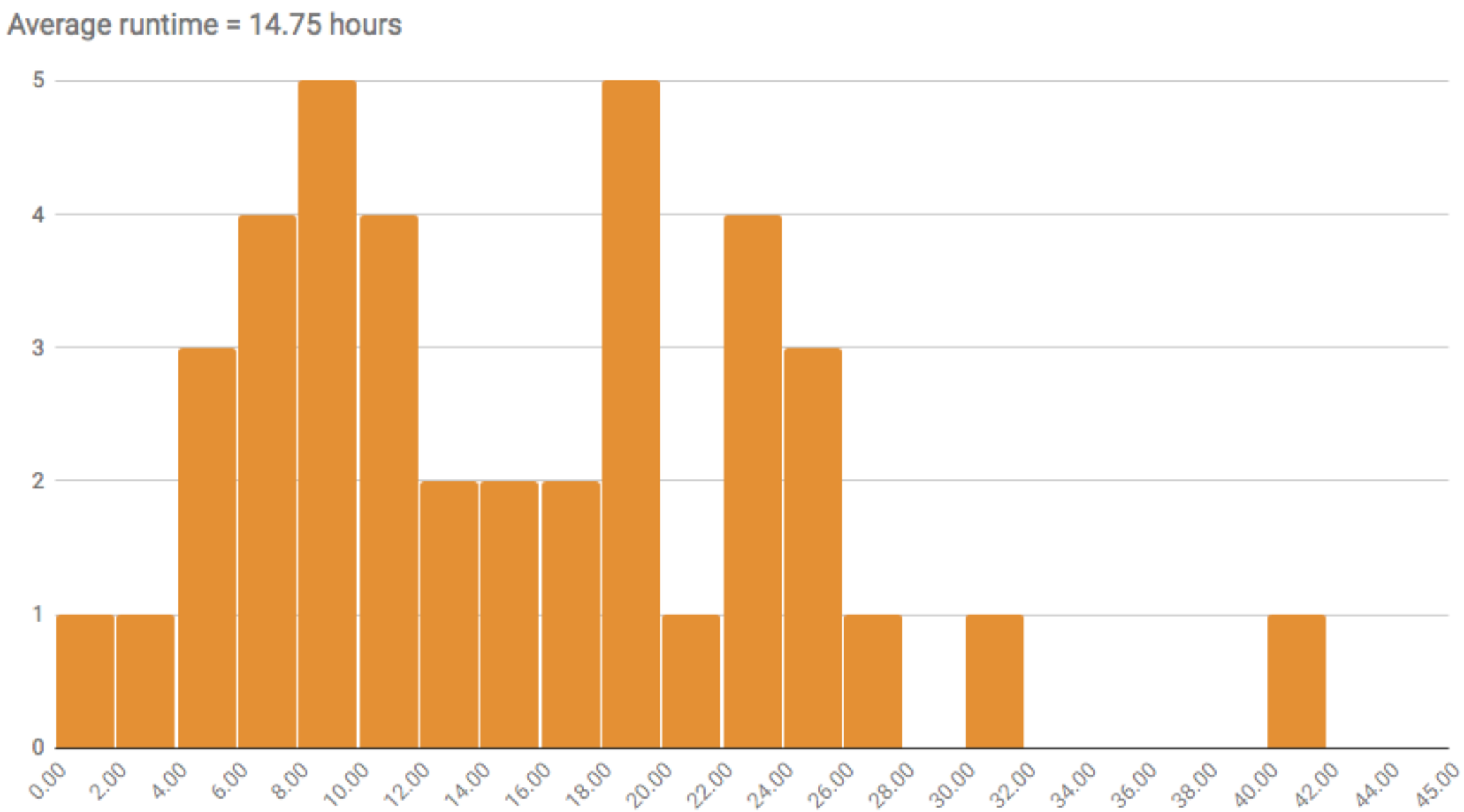
- **Manchester storage (root://bohr3226.tier2.hep.manchester.ac.uk//dpm/tier2.hep.manchester.ac.uk/home/lsst/): 1.4 PB**

Avg time	Stage-in (1 catalog ~750MB)	Stage-out (~60 MB)	
	from Astro	to Astro	to Manchester
BNL	8.6 sec	1.7 sec	-
GridPP	11.2 sec	-	3.5 sec

Job runtimes distribution on Grid, Single thread Phosim “-t 1”

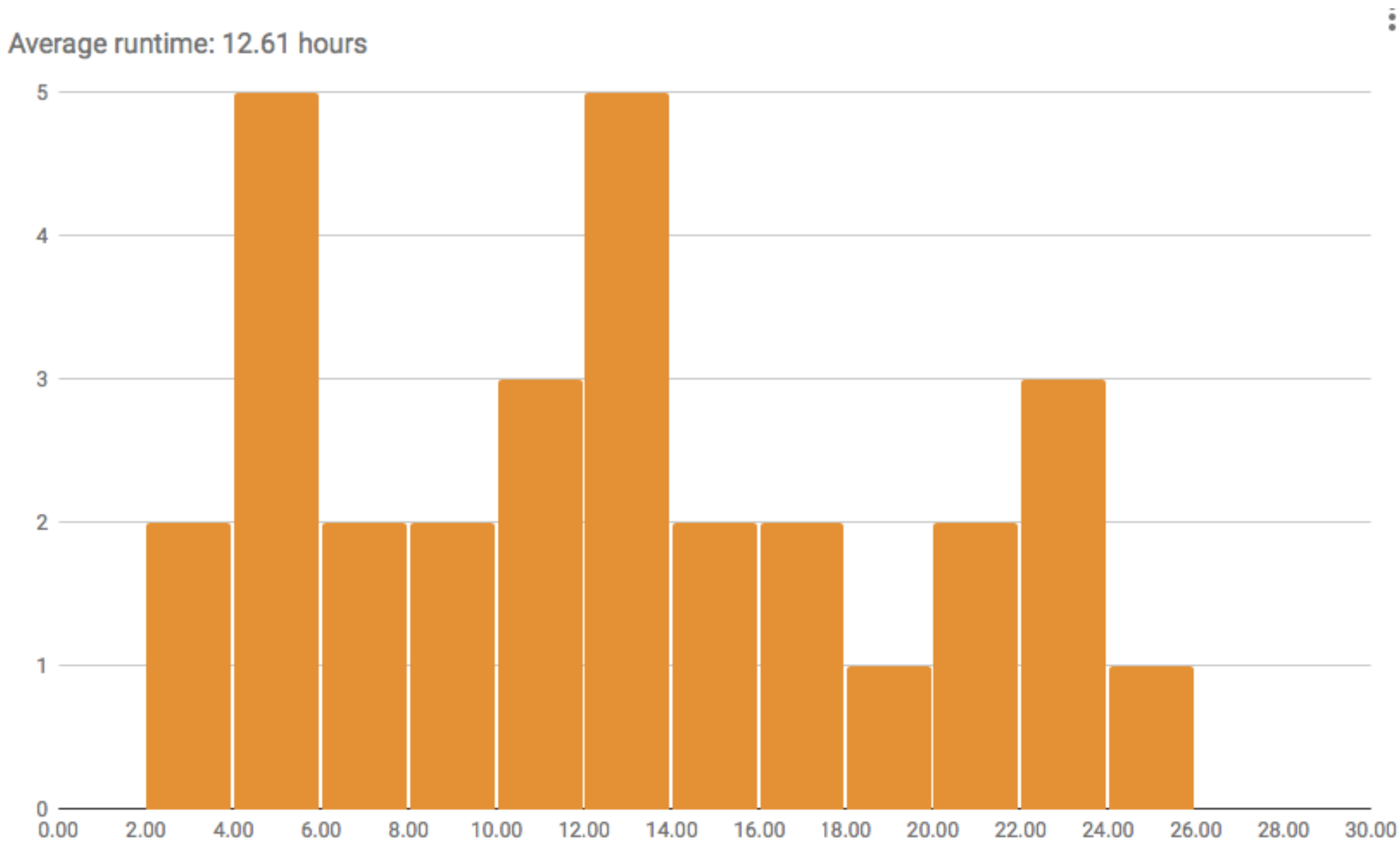


Job runtimes distribution on Grid, 4 threads PhoSim “-t 4”



4 threads are 21% faster than 1 thread

Job runtimes distribution on Grid, 8 thread PhoSim “-t 8”



8 threads are 35% faster than 1 thread

Current work

- lsst.in2p3.fr repository available at RAL, discussing the ways to add it at BNL
- Expanding infrastructure with multicore queues in GridPP
- Looking for opportunities to expand site list with ones from OSG