

# praguelcg2 report

ATLAS DE Cloud F2F Meeting

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praguelcg2 is multi-VO site, supporting

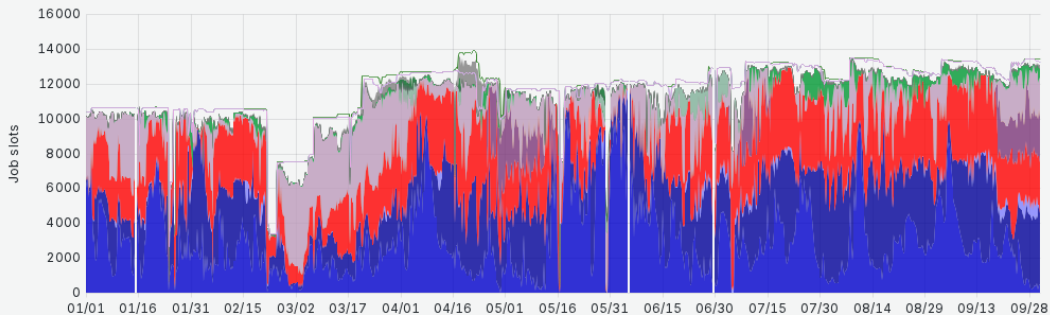
- LHC experiments
  - ATLAS
  - ALICE
- astroparticle experiments
  - Pierre Auger Observatory (PAO)
  - Cherenkov Telescope Array (CTA)
- Fermilab experiments
  - NOvA
  - DUNE



- local dCache
  - DATADISK: ~4.2 PB
  - SCRATCHDISK: ~110 TB
  - LOCALGROUPDISK: ~660 TB

- 2 × ARC-CE + HTCondor
- ~13k hyper-threaded cores (consisting of Intel and AMD (EPYC) processors)
- remote clusters which are part of HTCondor
  - the Faculty of Mathematics and Physics of the Charles University
- sharing by the VOs based on fair share

Condor: slots usage

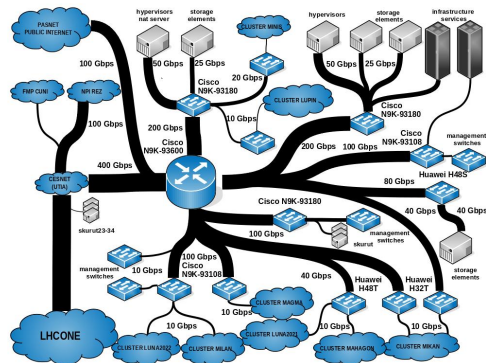


Name	Last *	Min	Mean	Max
ATLAS analy	0	0	0.221	5
ATLAS singlecore	496	0	2977	10073
ATLAS multicore	4056	0	2791	8960

- external
  - 4×100 Gbps to LHCONE
  - 2×100 Gbps to Pasnet/Internet
- internal
  - storage nodes - typical 40Gbps and at least 25Gbps for older servers
  - worker nodes - 10Gbps for all new machines with many cores

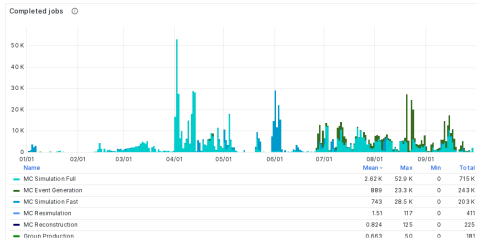
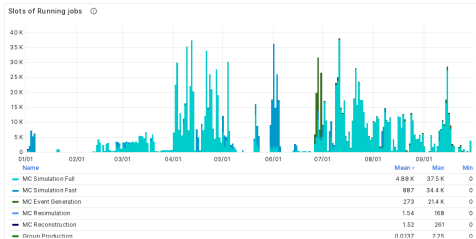
## IPv4/IPv6

- All WNs and storage pools use IPv6
- external IPv4 connectivity limited to 20Gbps (NAT)



We had/have access to several computing clusters which we can use opportunistically:

- Czech national HPC center IT4Innovations (IT4I) in Ostrava (Barbora and Karolina clusters)
  - new allocation (recently awarded to us) includes also LUMI



- local theory group clusters (Koios and Phoebe clusters)

