

The ATLAS Tier-3 in Geneva the Trigger Development Facility

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for the ATLAS collaboration

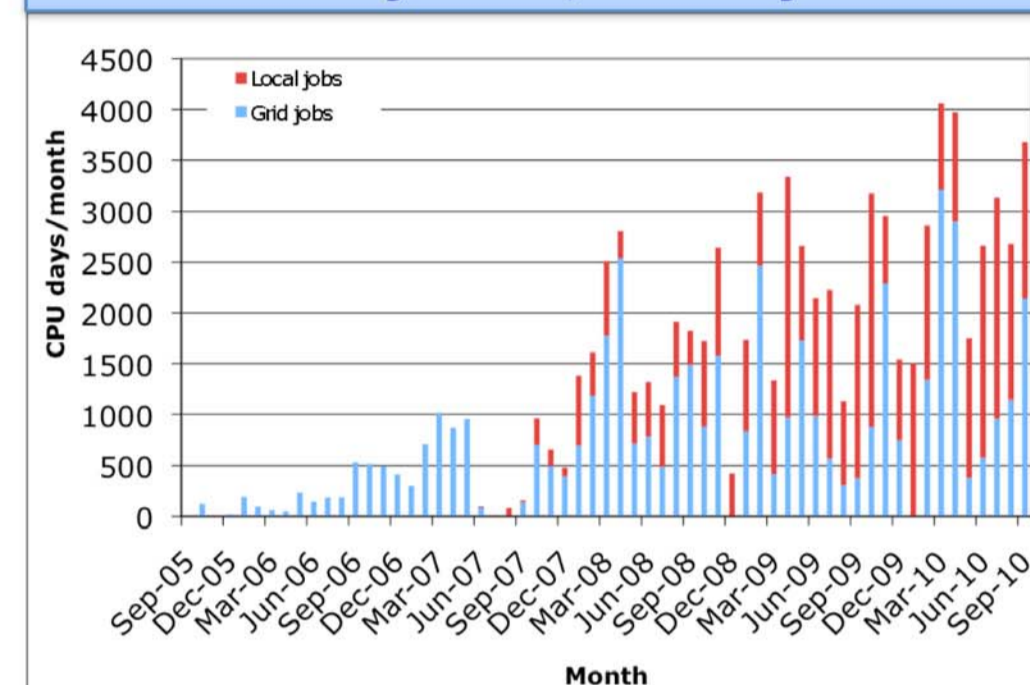
setup



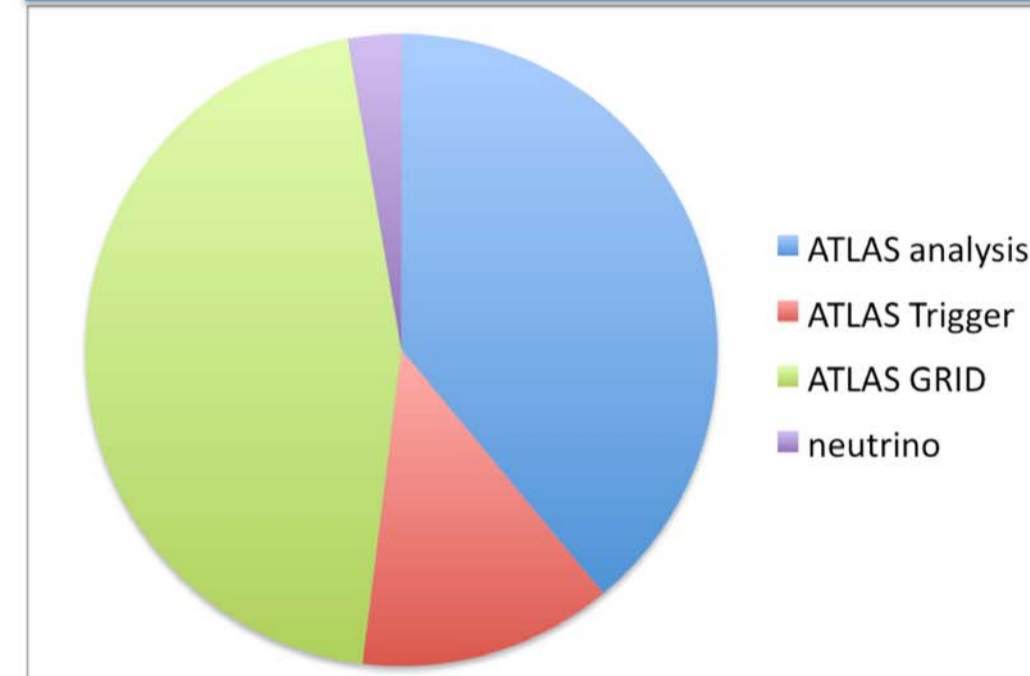
- 268 CPU cores
- 180 TB for data
 - 70 TB in a DPM Storage Element (4 servers)
 - 110 in NFS (5 servers)
- SLC5 and Solaris
- Torque + Maui batch system
- Grid Storage Element in Tiers of ATLAS
 - FTS channels from CERN and from NDGF Tier 1
- NorduGrid front-end to receive grid jobs
- **special features:**
 - 10 Gb/s line to CERN
 - latest ATLAS software via AFS from CERN

usage

Batch system, last 5 years

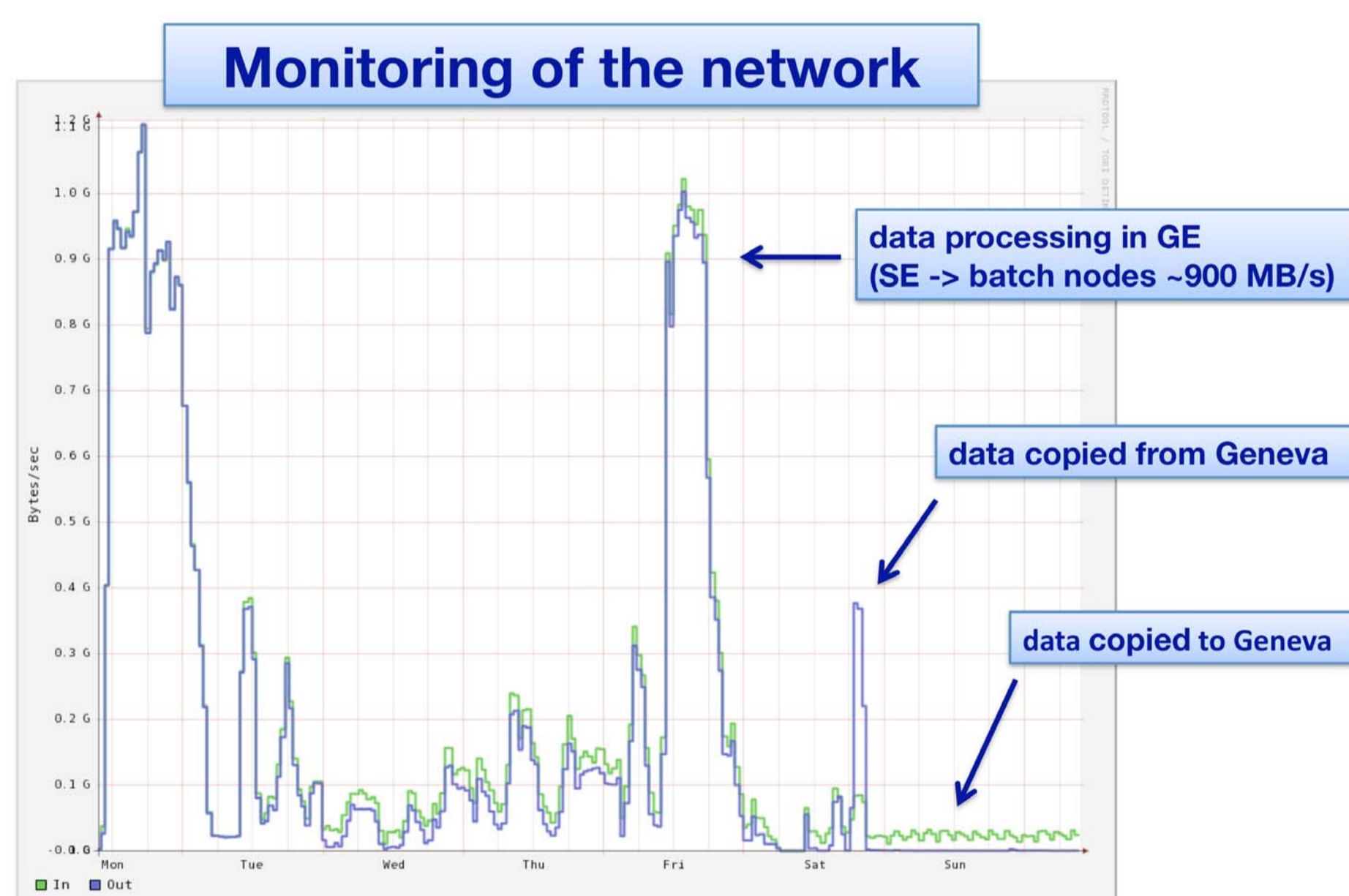


Detailed breakdown, last 6 months



- the analysis facility for the Geneva ATLAS group + friends
- **development, validation and commissioning of the ATLAS Trigger**
- **grid production for ATLAS since 2005**
- **recently also simulation for the T2K neutrino experiment**

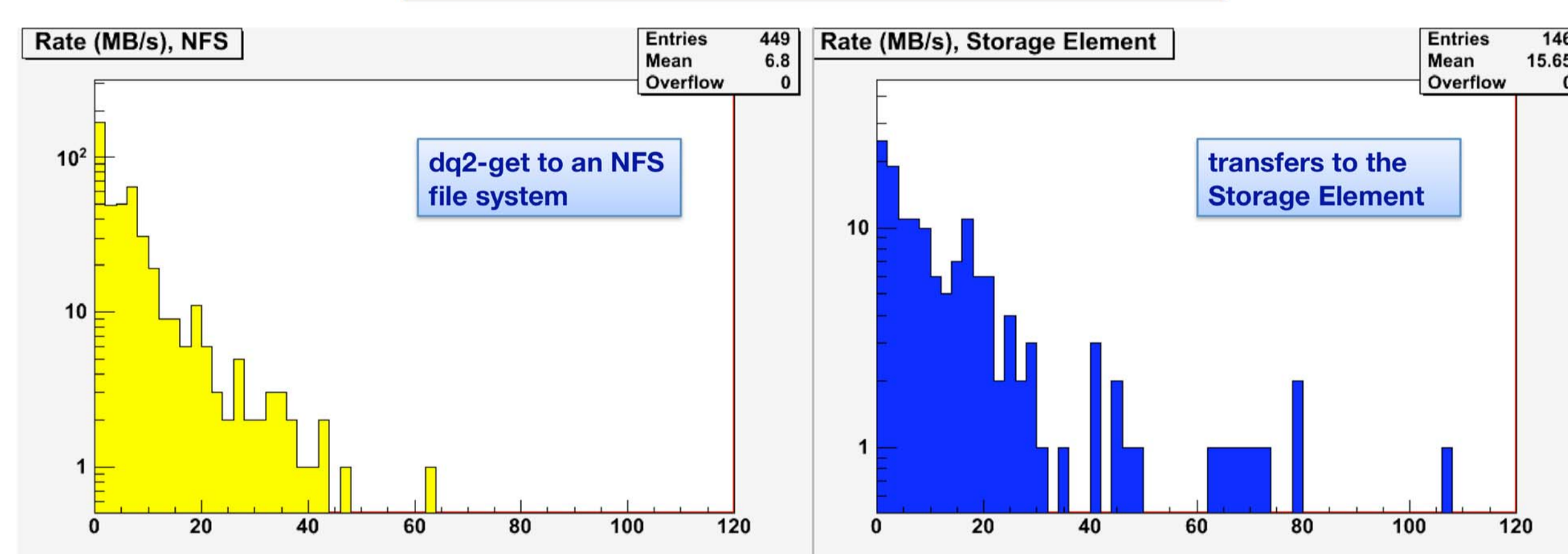
data movement performance



Data rates internal to the Cluster tested with 100 batch jobs, 5 GB/job

Storage system	direction	max rate [MB/s]
NFS 3, 1 server	read	300
	write	200
DPM SE, 4 servers	read	800
	write	210

Calculated data rates to Geneva



Average data transfer rates to Geneva calculated by looking to time stamps of files

Method	MB/s	GB/(24h)
dq2-get	6.8	570
transfer to the SE	15.7	1300