

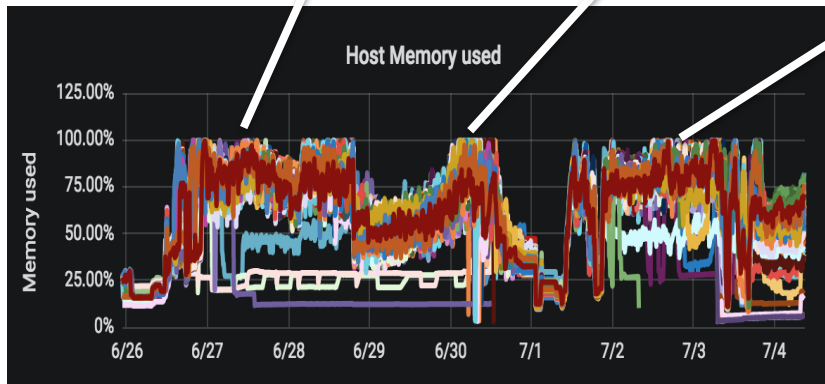
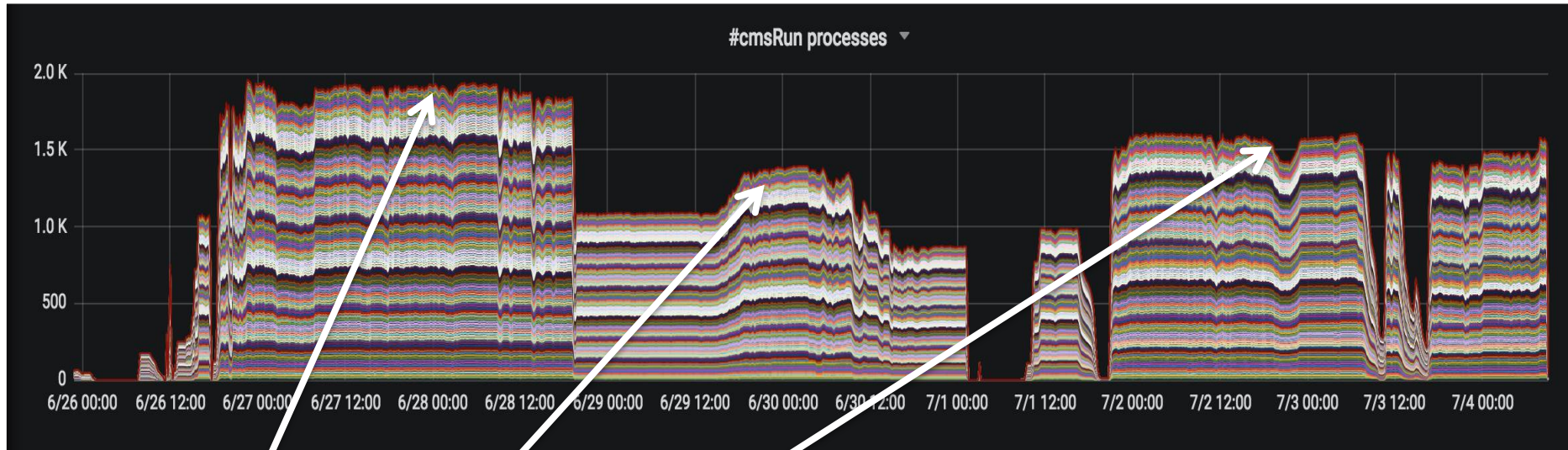


DODAS-CMS on T-SYSTEMS resources

Introduction to DODAS

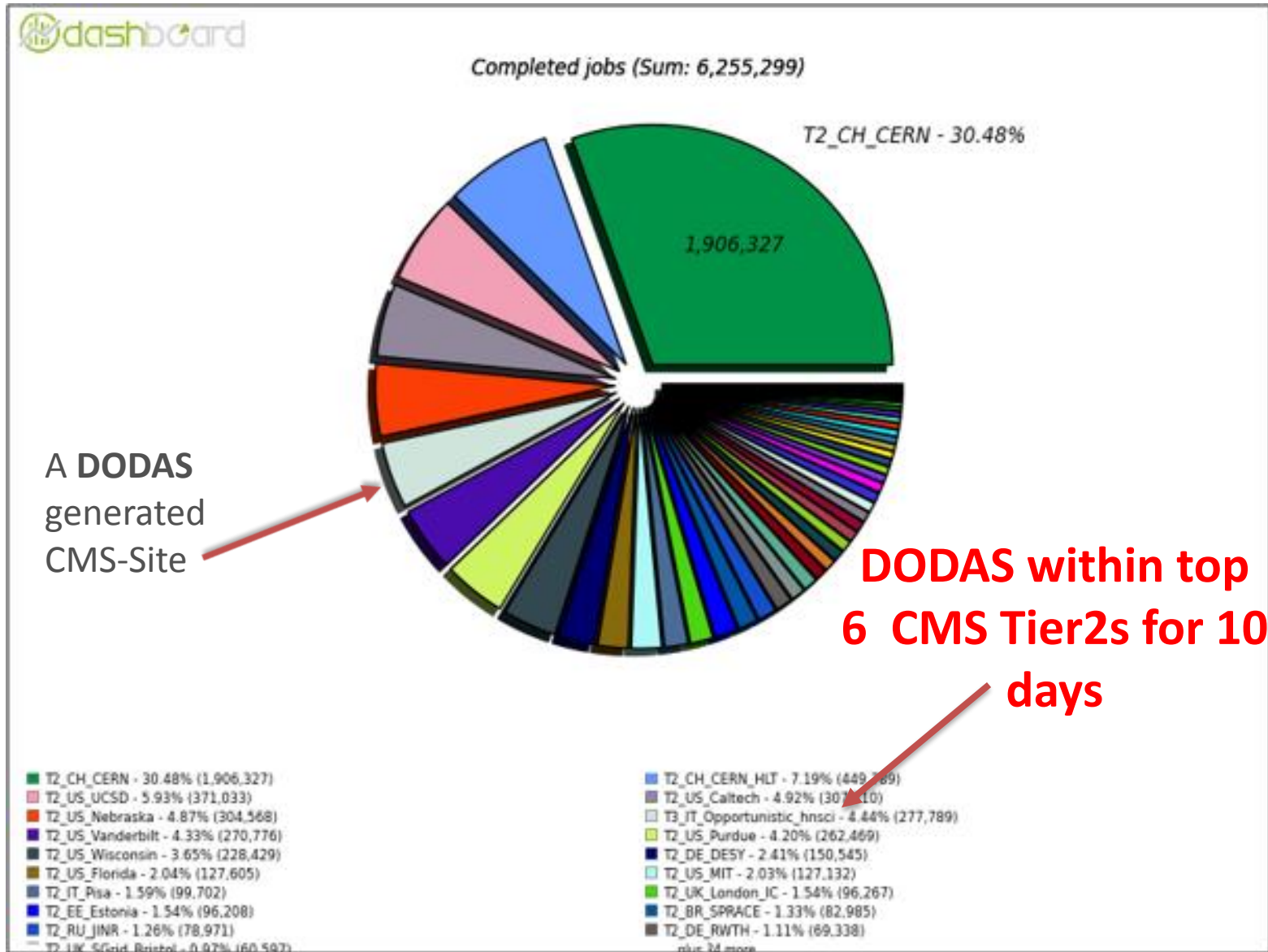
- An open-source Platform-as-a-Service tool which allows to deploy software applications over **heterogeneous and hybrid** clouds.
- DODAS has been realized mostly using building blocks originally developed by the **INDIGO-DataCloud**
 - Currently part of the **EOSC-hub**'s service portfolio
- DODAS **completely automates** the process of provisioning creating, managing and accessing a pool of heterogeneous computing and storage resources.
- Currently provides support to generate:
 - **HTCondor**-based batch system as a Service
 - **Big Data platform** for ML as a Service

Resource utilization



- Elasticity and self-healing
- Stability over days/weeks (120k jobs)
- Handling of high memory jobs

DODAS-CMS on HNSciCloud



DODAS with other experiments

- ☞ AMS & Batch System as a Service: first integration finished the past August
- ☞ **Remote submission of analysis jobs from CNAF AMS UI**
 - ☞ Same UI used to submit to LOCAL LSF
 - ☞ Input Data read from AMS **EOS@CERN**
- ☞ Jobs run@TSystems (Open Telekom Cloud)
- ☞ Produced output copied on a temporary storage@TSystems (via XRootD)
 - ☞ Third party copy from XRootD@OTC to
srm://storm-fe-ams.cr.cnaf.infn.it:8444
- ☞ Intensive use (Aug.-Sept.)
 - ☞ **30TB** of produced data (reprocessing)
 - ☞ **500K** jobs completed successfully