



UiO • **Universitetet i Oslo**

# UiO site report

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NDGF All Hands #1, April 2018, Copenhagen



## Abel computing cluster

- Will officially operate until Q1 2020
  - Which in practice means until Q3 2020 at least

- Nodes will be upgraded to CentOS 7
  - Frontends won't probably



- When CentOS 7 is there, we might start using Singularity for grid jobs

## Abel computing cluster [continued]

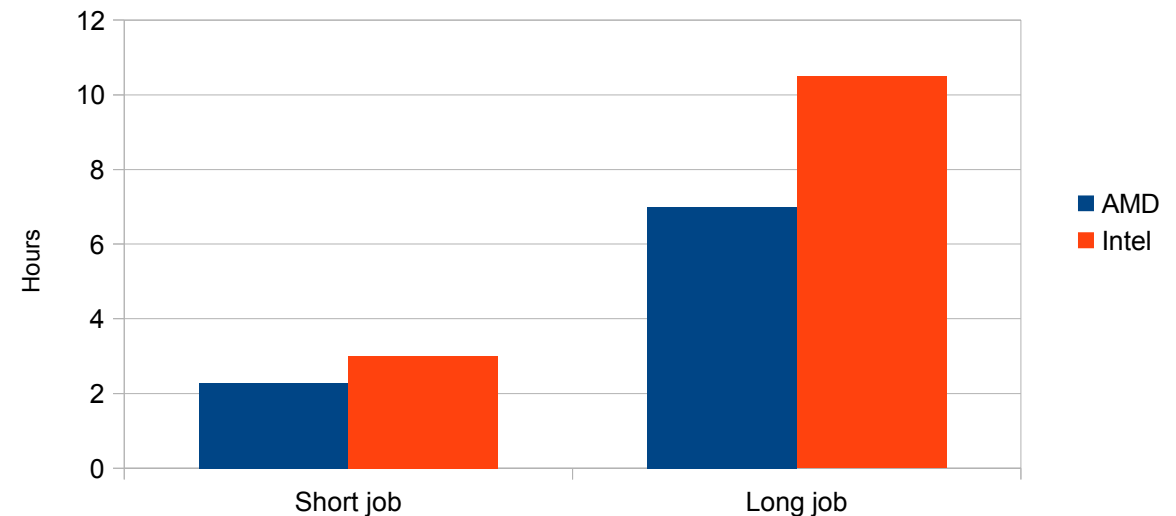
- New racks for grid will be bought sometime in the future to cover the increasing pledges
  - Most likely AMD cores

AMD EPYC 7601 32-Core Processor

vs

Intel Xeon E5-2670

AMD vs. Intel on running Atlas simulation jobs

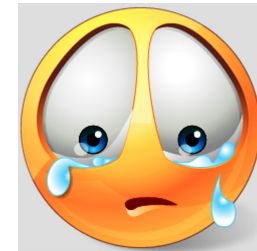


## Abel computing cluster [continued]

- Possible usage of ARM cores
  - Huawei is really trying to coerce us into buying it...
  - ...but CERN needs to come with a plan how to use ARM...
  - ...and none at CERN knows yet how to proceed!
  - Compiling ATLAS software stack myself in background mode, 30% so far with 2 months invested.
- What do we think about running all new resources in openstack?

## Abel computing cluster [still continued]

- ARC's cache/session will move to CEPH
  - Storage group at USIT is building a cluster, they are behind the schedule
  - Slovenians use CEPH with ARC and are satisfied with it
- Everything on slides about **Abel** only concerns ATLAS.
- No Alice@UiO computation is ever planned



## UiO storage

- dCache will get additional disk pools on CEPH
  - Also pending UiO's CEPH cluster
- The first possible upgrade of the tape with storage extension is 2019.  
No changes to the tape this year
- Bergen might decide to move its tape data to Oslo and stop operating tape storage altogether

## UiO network

- Upgrade to 20G will happen this year

## Malaga cats

