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UiO site report

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NDGF All Hands #2, November 2018, Umeå



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]

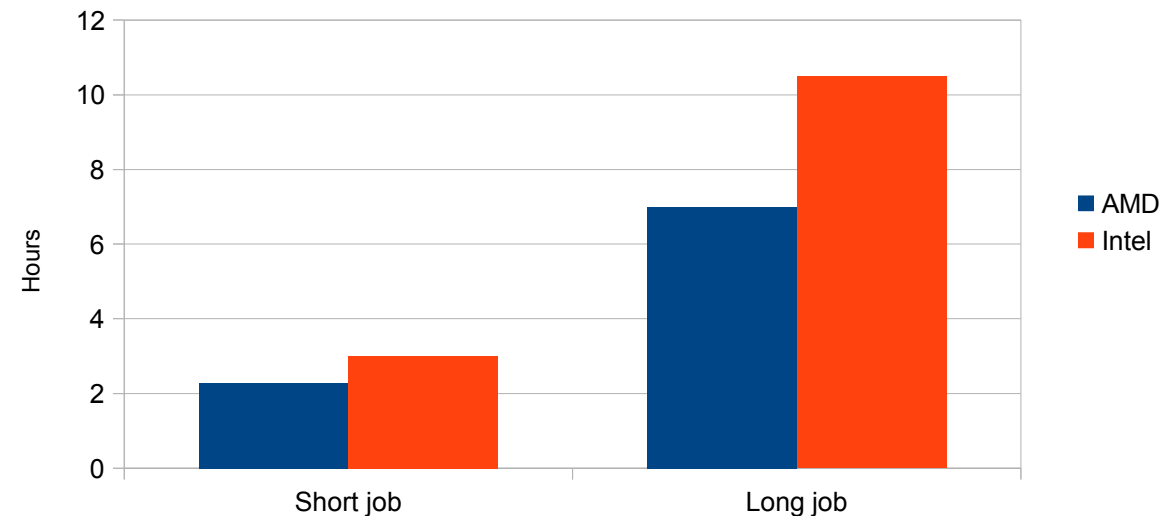
- New racks for grid will be bought sometime in the future to cover the increasing pledges
 - Most likely AMD cores

AMD EPYC 7601 32-Core Processor

vs

Intel Xeon E5-2670

AMD vs. Intel on running Atlas simulation jobs



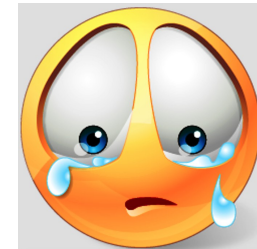
Abel computing cluster [continued]

- Possible usage of ARM cores
 - Huawei is really trying to cooperate
 - ...but CERN needs to plan how to use ARM...
 - ...and it's not clear if they know yet how to proceed!
 - ...running ATLAS software stack myself in background mode, 50% so far with 2 months invested
- What do we think about running all new resources in openstack? **Working on it, the test setup is being prepared. This is a preferred solution right now**

Too much ungrateful work. On hold now, probably won't ever happen

Abel computing cluster [still continued]

- ARC's cache/session will move to CEPH
 - Tested, didn't work well due to the server not being able to hold the load. The new server is being prepared
 - The numbers however were promising
 - Next step is to put CEPH into openstack, but there are doubts on if it's worth 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
 - Vincent is testing
- ~~The first possible upgrade of the tape with storage extension is 2019.~~
The tape is being extended right now, give it up for the UiO tape!
- The admin has been questioned about helping Dmytro create a hints file. He's however busy with tape the extension right now. Will assist with upgrading the client or doing it from the server side after that
- 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
 - The network is being upgraded right now, give it up for Uninett!
 - We might get 100G

Kiev cats

