



Meeting of the Technical Steering Committee (TSC) Board

Wednesday, August 11th, 2021
11:00am ET

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Agenda/Updates

- Announcements, upcoming talks and deadlines
 - ~~= SC'21 BoF submission =~~ [submitted August 6]
 - HPCSYSPROS Workshop – due September 17, 2021
-

- Update on aarch64 OBS build server
- Software requests
- aarch64 discussion - Richard
- High-level release target discussion

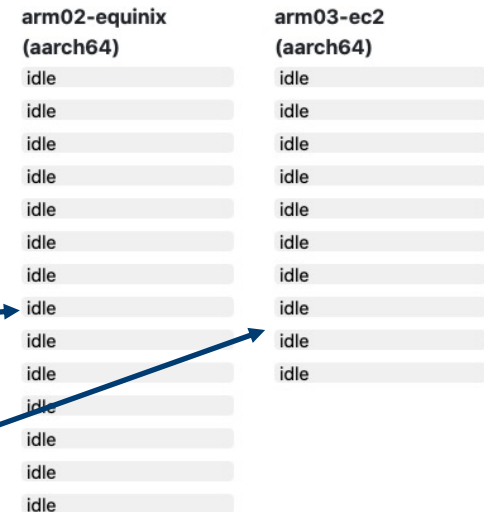
Update on ARM build server

- Back story
 - Recall last time, made some progress deploying OBS works via a container running openSUSE Leap,
 - Obs workers checked in with remote server, but then failed with....

```
Jul 28 11:33:35 arm02-equinix systemd[1]: obsworker.service: Failed to set invocation ID on control group /machine.slice/libpod-526cf6df56c2f8bbce0f8e46e897e3c2ff90c251eb4f5feb4c08b98f0cae7a2a.scope/system.slice/obsworker.service, ignoring: Operation not permitted
```

- Seemingly, unrelated but I was debugging a separate problem trying to get **valgrind** to work under a container
 - Solution here was to run docker in privileged mode
- Turns out that this was also a fix for the cgroup problem with OBS
- Remaining issues were to get ports ironed out for forwarding, final working incantation:

```
$ docker run --privileged -p 5252:5252 \
  -p 30000-30050:30000-30050 -d -h arm02-equinix obsworker
```



- Happy to report that we have now transitioned aarch64 builds to new server hosted at Equinix (provided via the Works-on-Arm project)
- We also have an addition build server now thanks to Chris D.

Review Cycle #9

Review #9

No due date 40% complete

<input type="checkbox"/> 3 Open ✓ 2 Closed
<input type="checkbox"/> OpenFlightHPC User Suite 🗨️ 1 #43 opened on Nov 25, 2019 by ColonelPanicks 👉 11 of 22 tasks
<input type="checkbox"/> hpc-workspace 🗨️ 6 #45 opened on Mar 11, 2020 by gerd 👉 10 of 22 tasks
<input type="checkbox"/> volcano-sh/volcano 🗨️ 1 #46 opened on Aug 24, 2020 by william-wang 👉 10 of 22 tasks

- Overview of process for new TSC members:

- Reviewer guidelines at:
https://docs.google.com/document/d/1po_yd-QvZJSIXYZ0fRo-lqyoQQIJkBQiQVqzilG-Tsw
- I will send a Google voting form link for each submission:
 - Bin into 4 recommendation options (accept, accept with changes, reject until changes, or reject)
 - Provide a prioritization score
 - Provide some comments

- Review volunteers:

1. Karl
2. Derek
3. Caesar
4. Chris D.
5. Eric C.
6. Jason W.
7. Reese

- Thank you for the folks who have already submitted their reviews

- Proposed reviewer deadline:
Tuesday, August 10th

- Can we try for remaining reviews in 1 week?

Tuesday, August 17th

aarch64 discussion - Richard

- PR for arm compiler
- ARM compiler future changes
 - Expect to release a breaking change once a year :-(😞 😞
 - Next release is January 2022
 - Module name change arm -> armfl
 -
- annobin
 - We disable currently on ohpc
 - May need to revisit this choice of whether we need to enable

Release Targets for SC'21 – Discussion

- Really need to do a final 1.3.X release, would propose to commit to this for SC
 - Does steal resources from 2.X work, but perhaps can be limited by OS choice
 - Question is how far forward to bring 1.3?
 - Presumably want to introduce new compiler/MPI families so, can have the flexibility to bring up to similar state as 2.x

- 1.3.X (1.3.10)
 - Consider update for CentOS only?
 - target latest distro version, e.g. 7.9
 - (no) gnu8 -> gnu9, 10, or 11?
 - (no) mpich 3.x -> update for ch4 configuration like 2.x (if no issues encountered with libfabric/UCX)
 - (no) openmpi3 -> openmpi4
 - mvapich -> 2.x upgrade
 - Yes: update parallel libs as available (since rebuilding anyway)
 - yes: pbspro -> openpbs
 - yes: Slurm 18.X -> Slurm 20.X

- 2.X
 - OHPC builds performed against RHEL proper
 - CentOS 8 recipes -> Rocky 8 recipes
 - Do we also do something say AlmaLinux
 - Refactor hwloc install for use by ohpc resource manager builds
 - Updates for Intel One API compiler (not a new compiler variant, since using legacy mode)
 - Ingest one API packages
 - Update ARM compatibility package and additional package support
 - Consider new gcc compiler family: 11.2
 - Usual component upgrades as available
 - Wavewulf4, if workable
 - *Consider: initiating a CI environment with CentOS Stream to confirm/deny package dependency resolution against rolling Stream environment*