



Meeting of the Technical Steering Committee (TSC) Board

Wednesday, May 5th, 2021
11:00am ET

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Agenda/Updates

- Announcements, upcoming talks and deadlines
 - ISC 2021 – OpenHPC BoF
 - ✓ submitted updated program material (Mar. 31)
 - Program schedule published: **Monday, June 28**
 - ✓ SC'21 Tutorials – due April 30 (David)
 - PEARC'21 BoF submission – due May 9
 - SC'21 BoF submission – due August 6
 - Infrastructure outage – **update: gear relocation no longer anticipated**

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- Internship program experience – Derek?
 - TSC Nominations
 - Rocky 8.3 release candidate
 - PEARC BoF

TSC Selections

- We are coming up on the end of the current 2020-2021 TSC service cycle (term ends June 30)
- Plan to post call for nominations as usual to the openhpc-users list at the of this week
- Reminder on process and timeline
 - expect to follow same schedule as last year to have 2021-2022 TSC selections completed by July 1
 - Proposed submission deadline: [June 11th, 2021 \(Friday\)](#)

TSC Selections

- Reminder on the overall process:
 - anyone can submit nominations (including self-nominations by the June 11th deadline)
 - submit nomination and CV to following email: tsc-nominations@OpenHPC.groups.io
 - When nominating, please highlight any potential conflicts of interest and indicate the role you are primarily interested in:
 - maintainer
 - end-user site representative
 - upstream component development representative
 - testing coordinator
 - After the nomination deadline, current TSC members will receive a request to vote on next year's nominees via a Google form
 - current TSC members have until June 29 to cast their votes
- New TSC membership for 2021-2022 term announced June 30th
- With new TSC membership in place, next step is to take nominations for TSC Project Lead (from pool of TSC members)
 - nominations will go to Neal
 - TSC members will then receive another Google form to cast votes
 - Project Lead selection process to be completed by July 31, 2021
- Any questions?

Rocky Linux

- A release candidate for Rocky Linux 8.3 was posted last week, April 30
 - RC1, <https://rockylinux.org/news/rocky-linux-8-3-rc1-release/>
 - public repository at: <https://download.rockylinux.org/pub/rocky/8/>
- Thought it might be useful to see how hard it would be to create a Rocky-based recipe starting from our current CentOS8 2.1 release
 - created a Rocky 8.3 RC1 image for our x86 CI environment at TACC
 - started a new rocky OS variant in our documentation area
 - just started with Warewulf/SLURM
 - **Change #1**: updated our warewulf-vnfs build
 - one clear change needed is a recipe for creating chroot image from Rocky instead of CentOS
 - added a **rocky-8** variant to our Warewulf build
 - main change is to use a different upstream repository location

Rocky Linux

- Environment obviously looks very similar to CentOS8

```
[root@sms005 ~]# yum repolist
repo id                repo name
OpenHPC                OpenHPC-2 - Base
OpenHPC-updates        OpenHPC-2 - Updates
OpenHPC-updates-factory OpenHPC-2.2 - Factory Updates
appstream              Rocky Linux 8 - AppStream
baseos                 Rocky Linux 8 - BaseOS
epel                   Extra Packages for Enterprise Linux 8 - x86_64
epel-modular           Extra Packages for Enterprise Linux Modular 8 - x86_64
extras                 Rocky Linux 8 - Extras
powertools             Rocky Linux 8 - PowerTools
```

Starting SMS repo config in our CI environment

Rocky Linux

- Change #2:
 - separate installation recipe defined for Rocky
 - takes advantage of alternate Warewulf template available from Change #1

```
$ diff recipe.centos8 recipe.latest
17c17
< inputFile=${OHPC_INPUT_LOCAL:-/opt/ohpc/pub/doc/recipes/centos8/input.local}
---
> inputFile=${OHPC_INPUT_LOCAL:-/opt/ohpc/pub/doc/recipes/rocky8/input.local}
129,130c129,130
< export CHROOT=/opt/ohpc/admin/images/centos8.3
< wwmkchroot -v centos-8 $CHROOT
---
> export CHROOT=/opt/ohpc/admin/images/rocky8.3
> wwmkchroot -v rocky-8 $CHROOT
350c350
< wwsh -y provision set "${compute_regex}" --vnfs=centos8.3 --bootstrap=`uname -r` --
files=dynamic_hosts,passwd,group,shadow,munge.key,network
---
> wwsh -y provision set "${compute_regex}" --vnfs=rocky8.3 --bootstrap=`uname -r` --
files=dynamic_hosts,passwd,group,shadow,munge.key,network
```

Rocky Linux

- Does it work with OpenHPC 2.1?
 - basic cluster install and set of short tests check out

(2.2) - (rocky8.3,x86_64) (warewulf+slurm) (fabric=eth) - UEFI ▶ #18 ▶ Test Results

Test Result

0 failures (-13)

203 tests (+164)
Took 1 min 56 sec.
 add description

All Tests

Package	Duration	Fail	(diff)	Skip	(diff)	Pass	(diff)	Total	(diff)
InstallTests	0.54 sec	0	-4	0		7	+4	7	
RootLevelTests	18 sec	0	-9	0		35	+12	35	+3
UserLevelTests	1 min 37 sec	0		0		161	+161	161	+161

Rocky Linux – longer CI test runs

(2.1) - (centos8.3,x86_64) (warewulf+slurm) (fabric=eth) - UEFI #154 Test Results CentOS 8.3

Test Result

0 failures (±0)

1,151 tests (±0)
Took 17 min.
[add description](#)

All Tests

Package	Duration	Fail	(diff)	Skip	(diff)	Pass	(diff)	Total	(diff)
InstallTests	0.54 sec	0		0		7		7	
RootLevelTests	18 sec	0		0		35		35	
UserLevelTests	16 min	0		0		1109		1109	

(2.1) - (centos8.3,x86_64) (warewulf+slurm) (fabric=eth) - UEFI #154 Test Results Rocky 8.3 RC1

Test Result

0 failures (±0)

1,151 tests (+948)
Took 17 min.
[add description](#)

All Tests

Package	Duration	Fail	(diff)	Skip	(diff)	Pass	(diff)	Total	(diff)
InstallTests	0.54 sec	0		0		7		7	
RootLevelTests	18 sec	0		0		35		35	
UserLevelTests	16 min	0		0		1109	+948	1109	+948

CentOS8 Replacement

- These first quick tests seems promising – we are using our previous builds made against CentOS8 proper with rebuilds of Rocky8
- Regardless of what we may want to base our user-facing recipes on, we need to figure out what distro(s) our OBS builds will use:
 - prefer to not have to consider doing multiple RHEL8 variants
 - do think it is worth trying to see if we can incorporate RHEL binary packages directly into our build system
 - note, for OpenSUSE we take advantage of SUSE's public OBS system which provides the distro packages to our standalone OBS
 - ohpc community had RHEL entitlements previously, but they have expired
 - Adrian working to get them setup again

PEARC BoF Submission

- Submission is due May 9th (this Sunday)
- BoF sessions are **one hour** in length
- Proposed high-level agenda:
 - Highlight 2.x series and the major changes, e.g.
 - libfabric
 - UCX
 - ch4 interface for MPICH – updated MPI interconnect support table
 - Leap 15.2/CentOS8 variants
 - switch to OpenPBS
 - arm linux compiler
 - updated compatibility for intel oneapi
 - ntpd -> chronyc
 - newer BeeGFS
 - Continued growing usage stats
 - Internship program
 - Do we have the right packages, what is would people like to see?
 - CentOS8 replacement discussion
 - present our thoughts/proposals going forward
 - alternatives
 - known gotchas with Stream
 - impact on parallel file systems (Lustre/BeeGFS)
 - poll audience on what their preferred distro - meet.ps
 - generate a list of questions in advance
 - move to general discussion
 - General discussion/questions/feedback with attendees
 - can use the online question voting tool that worked well at SC
 - <https://meet.ps>

15-20 minutes

15 minutes

Suggestions/Thoughts?

25-30 minutes

PEARC BoF Submission

- Submission is order 2 pages...
- I will create a draft in google docs and send around for comments to the TSC list to submit over the weekend