Meeting of the Technical Steering Committee (TSC) Board

Wednesday, December 1st, 2021
11:00am ET

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Agenda/Updates

- Announcements, upcoming talks and deadlines
    - ISC'22 BoF - Hamburg
        - Due, Feb 2, 2022

- Meetings during holiday break
    - assuming no TSC meeting on Dec 29
    - do folks want to meet in two weeks, Dec 15th?

- v2.4 release
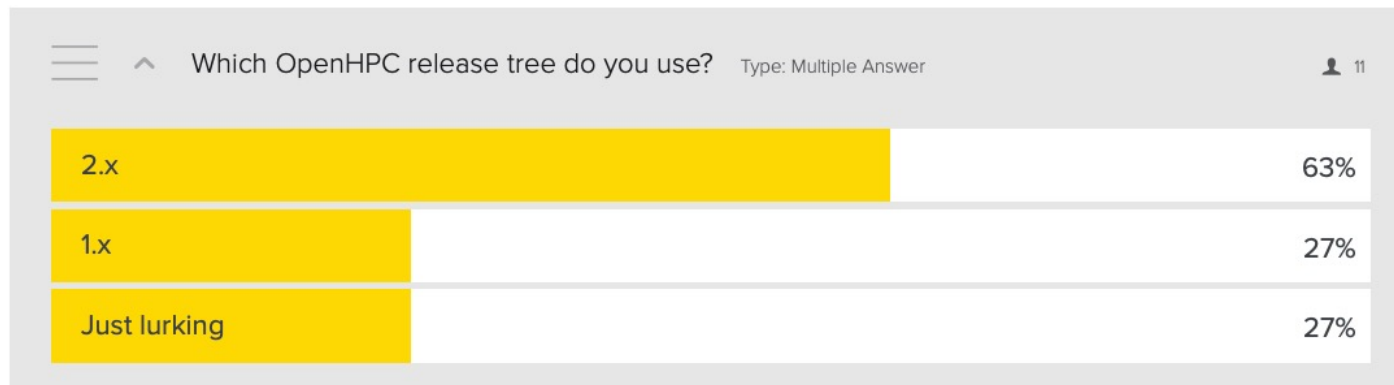
- SC'21 BoF - post mortem

openHPC

v2.4 release

- was able to push out a release right before SC'21 (November 16)

- one small gotcha was that Rocky 8.5 was released on November 15

- included most of the high/medium priority items that we discussed last time:

  (high) finalized hwloc/rms changes
  - SLURM/OpenPBS build updated to use ohpc hwloc variant

  (high) converted all CentOS8 recipes to <u>Rocky8.5</u> and test (including aarch64)

  (high|medium) <u>Leap 15.3</u>

  (medium) more component version updates
  - 44% of components had version updates

  (medium) Updated vendor compiler support (Intel oneAPI)
  - had to rebuild a number of Intel packages (anything using MKL)
  - recipes updated to pull down oneAPI packages directly from public repo
  - recipes also updated to share /opt/intel via NFS

  (medium) Updated vendor compiler support (ARM)
  - updated compatibility package

  ✗ (medium|low) Warewulf4....

  ✗ (low) updated PMIx support with RMS(s)

v2.4 release

- Caveats:
  - (high) a newer Lustre client was included that worked on Rocky8 .4
    - but, does not support Rocky 8.5 client
    - similarly, BeeGFS client works with 8.4, but not 8.5
    - no support for Leap 15.3 yet in standard Lustre release
  - reduced the total number of available tested recipes from 10 -> 8
    - Rocky not yet supported in xCAT
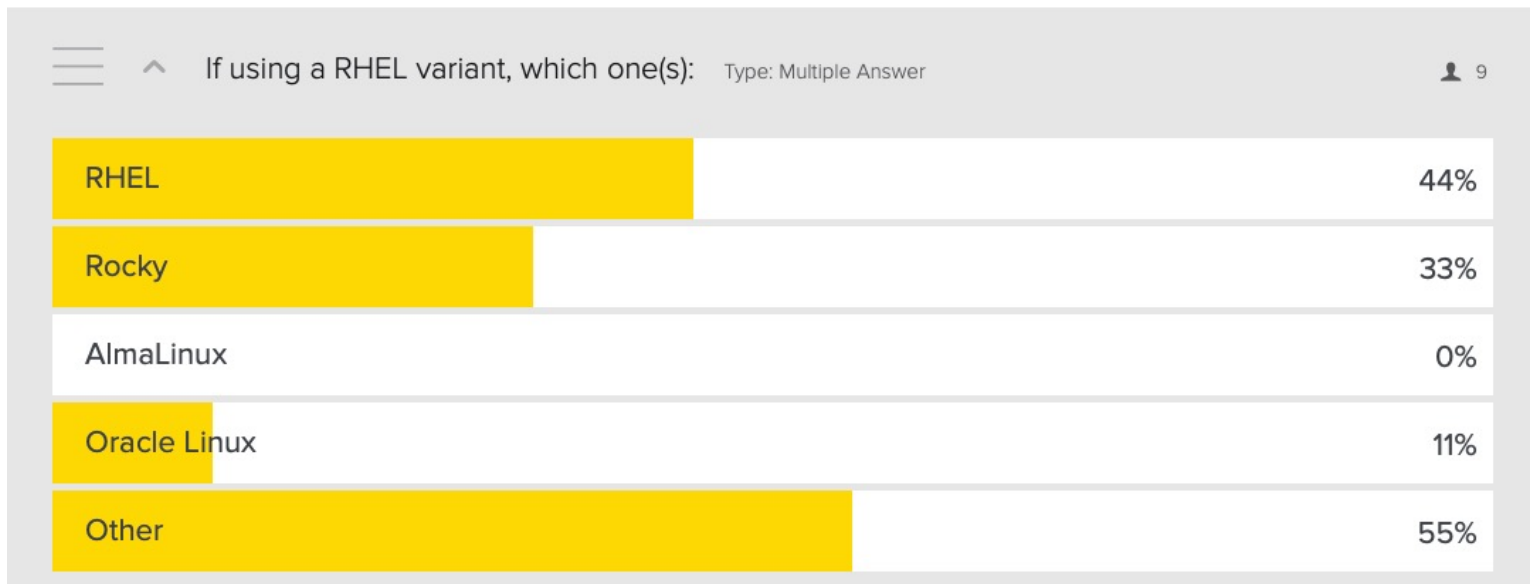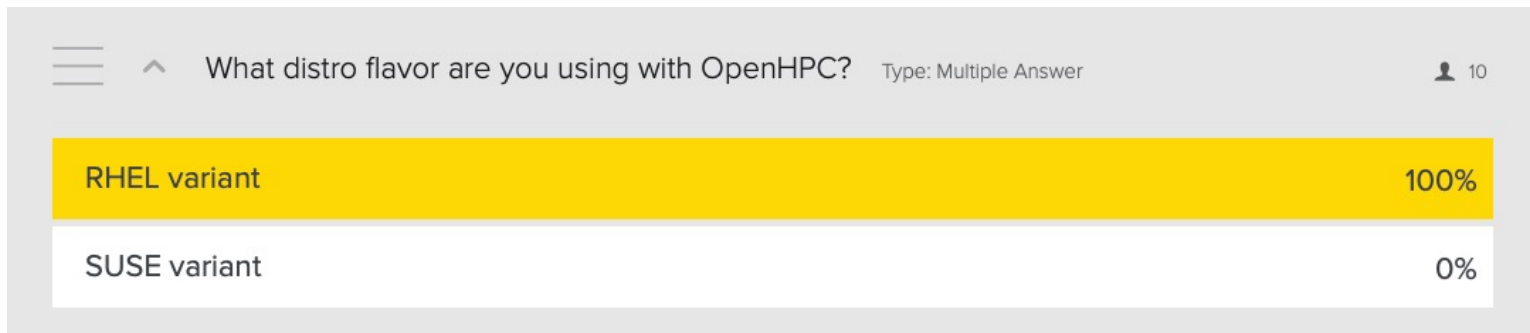   - Not clear this will be added: https://github.com/xcat2/xcat-core/issues/6966

SC'21 BoF Session

- BoF slides on our wiki:
  - https://github.com/openhpc/ohpc/wiki/Papers,--Presentations,-and-Tutorials

- attendance definitely down in pure virtual setting
  - topped at 32 on Zoom
  - discussion needed some prodding
  - oddly, folks didn't use the online question tool much (unlike previous in-person case), but did respond to poll questions
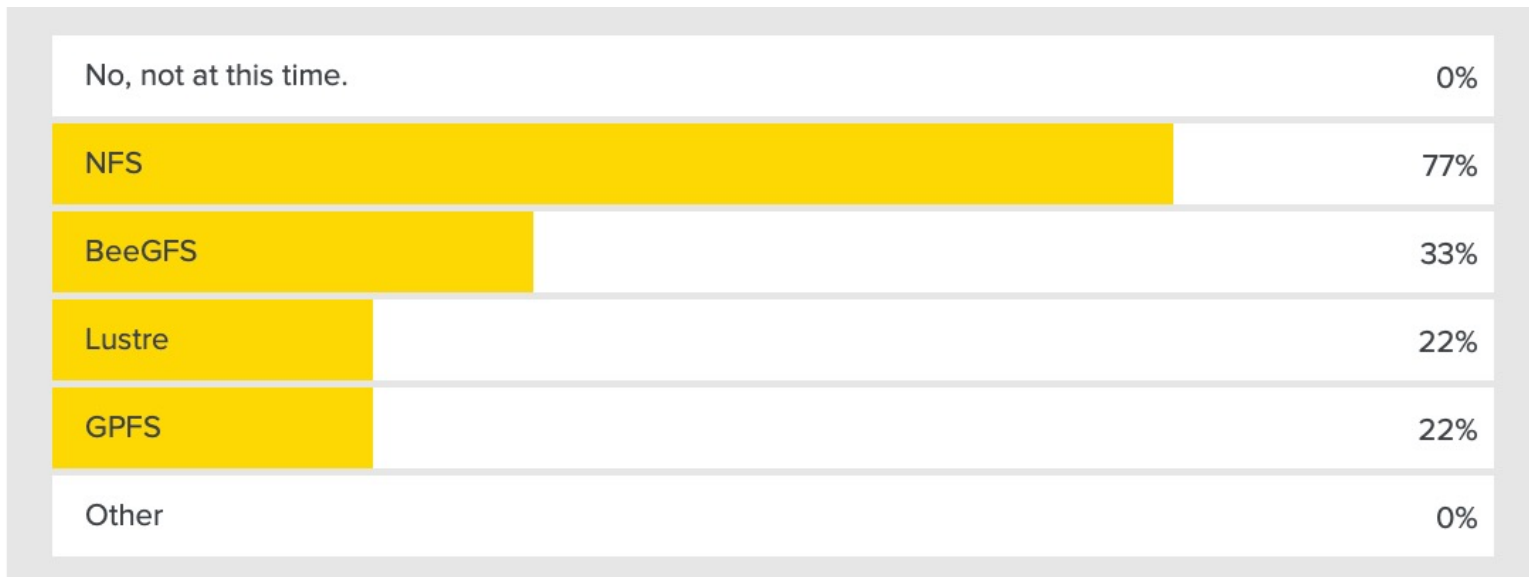
- Results of poll questions:

SC'21 BoF Session

- Results of poll questions:

What distro flavor are you using with OpenHPC? Type: Multiple Answer   👤 10

RHEL variant	100%
SUSE variant	0%

If using a RHEL variant, which one(s): Type: Multiple Answer   👤 9

RHEL	44%
Rocky	33%
AlmaLinux	0%
Oracle Linux	11%
Other	55%

SC'21 BoF Session

- Results of poll questions:

No, not at this time.	0%
NFS	77%
BeeGFS	33%
Lustre	22%
GPFS	22%
Other	0%

SC'21 BoF Session

- Discussion:
  - questions on combining ohpc with spack
  - will Rocky 8 support other hardware drivers: InfiniBand, GPFS and such…"
  - what to do about monitoring?
    - Prometheus
    - multiple things -> Grafana
    - icinga2 (fork of nagios)
  - using openhpc in education
    - demo'ing Pis?
    - have to load a firmware to get ACPI first
    - no BMC
    - PI4 can load CentOS kernel…
    - maybe a good internship project?
    - https://raspberrytips.com/install-centos-raspberry-pi/
    - https://linuxhit.com/raspberry-pi-pxe-boot-netbooting-a-pi-4-without-an-sd-card/#7-phase-1-pxe-boot-client-configuration