



Meeting of the Technical Steering Committee (TSC) Board

Wednesday, June 30th, 2021
11:00am ET

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Agenda/Updates

- Announcements, upcoming talks and deadlines
 - PEARC'21 BoF submission – ****ACCEPTED****
 - SC'21 Tutorial submission – **DECLINED**
 - SC'21 BoF submission – due August 6
 - Next TSC meeting (July 14th) to be cancelled
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- TSC 2021/2022 Election Results
- Quarterly access stats
- v2.3 Release
- ISC 2021 BoF debrief

TSC 2021/2022 - Election Results

- Pleased to announce updated membership for 2021/2022
 - 17 members total
 - 4 new members
- Many thanks to all those who served on TSC last year

Name	Affiliation	Role	For / Against / Abstain
Reese Baird	SpaceX	maintainer	17 / 0 / 0
David Brayford	LRZ	maintainer	16 / 0 / 1
Eric Coulter	Indiana University	end user site rep	16 / 0 / 1
Chris Downing	Amazon Web Services	maintainer	16 / 0 / 1
Richard Henwood	ARM	maintainer	17 / 0 / 0
Amarpal Kapoor	Intel	maintainer	16 / 0 / 1
Michael Karo	Altair	component devel. rep	16 / 0 / 1
Caetano Melone	Stanford	end user/ site rep	13 / 2 / 2
Cyrus Proctor	Speqtral Quantum Tech.	maintainer	16 / 0 / 1
Adrian Reber	Red Hat	maintainer	16 / 0 / 1
Karl Schulz	University of Texas	testing coord.	16 / 0 / 1
Jeremy Siadal	Intel	maintainer	17 / 0 / 0
Derek Simmel	PSC	end user/ site rep	16 / 0 / 1
Chris Simmons	University of Texas at Dallas	cloud lead, site rep	16 / 0 / 1
Caeser Stoica	Lenovo	maintainer	16 / 0 / 1
Nirmala Sundararajan	Dell	maintainer	16 / 0 / 1
Jason Wells	Bentley University	end user/ site rep	16 / 0 / 1

TSC 2020/2021

- Administrative notes for new TSC members:
 - TSC meeting slides get posted on github wiki
<https://github.com/openhpc/ohpc/wiki/Technical-Steering-Committee-Meetings>
 - you will be added to a TSC email list:
tsc-private@openhpc.groups.io
- First item of business: collect nominations for Project Lead
 - nominations (including self-nominations) are welcome from all current (2021/2022) TSC members
 - please submit to Neal Caidin (ncaidin@linuxfoundation.org) by Friday July 16, 2021
 - complete voting by Tuesday, July 27, 2021


v2.3 Release

- OpenHPC v2.3 released last week (June 25)
 - imported CentOS 8.4 on aarch64 and completed CI testing
 - rebuilds of both OpenPBS and SLURM to address hwloc changes in CentOS 8.4
 - Lustre client unavailable for CentOS 8.4

Component Version Changes

* EasyBuild-ohpc	(4.3.3 -> 4.3.4)
* docs-ohpc	(2.1.0 -> 2.3.0)
* libfabric-ohpc	(1.11.2 -> 1.12.1)
* openpbs-client-ohpc	(20.0.0 -> 20.0.1)
* openpbs-devel-ohpc	(20.0.0 -> 20.0.1)
* openpbs-execution-ohpc	(20.0.0 -> 20.0.1)
* openpbs-server-ohpc	(20.0.0 -> 20.0.1)
* test-suite-ohpc	(2.1.0 -> 2.3.0)

- also published example Rocky recipe.....



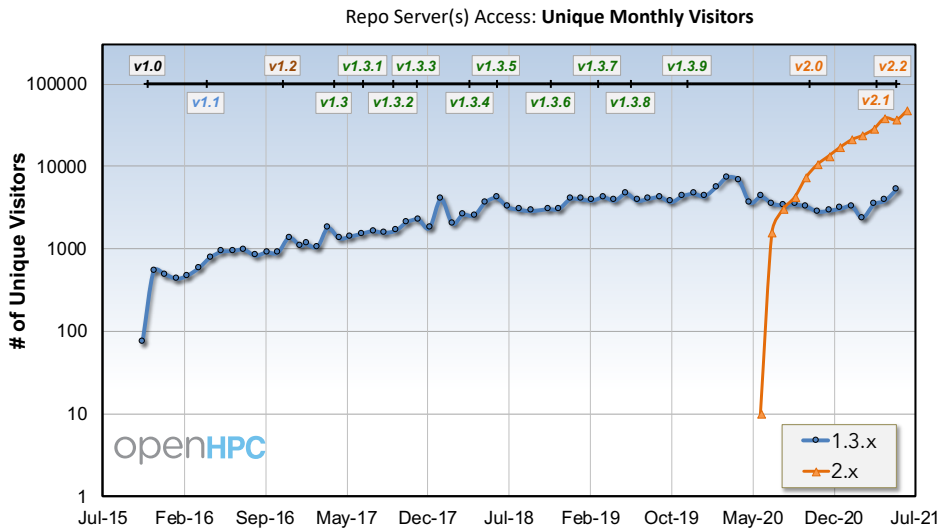
OpenHPC (v2.3)
Cluster Building Recipes

Rocky 8.4 Base OS
Warewulf/SLURM Edition for Linux* (x86_64)

VERSION
2.X

Document Last Update: 2021-06-26
Document Revision: 411abc72d

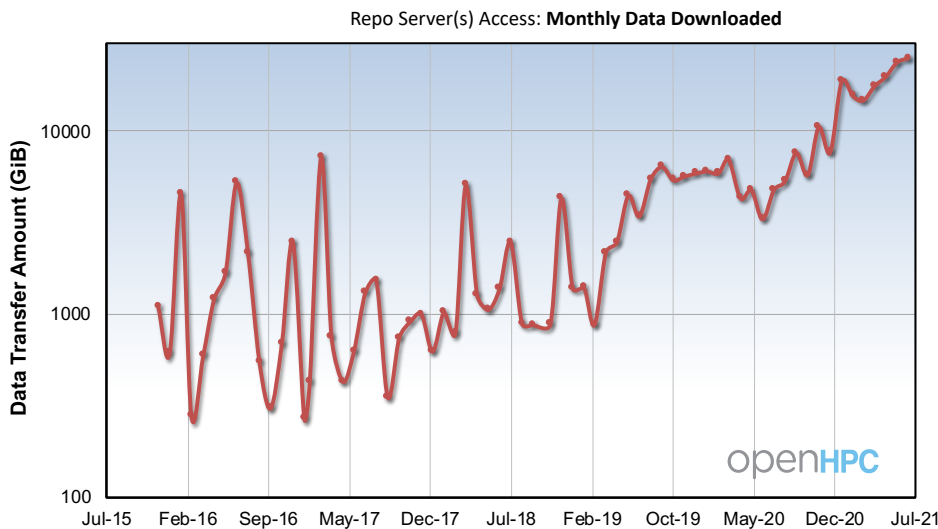
Updated Usage/Access Statistics (thru Q2 2021)



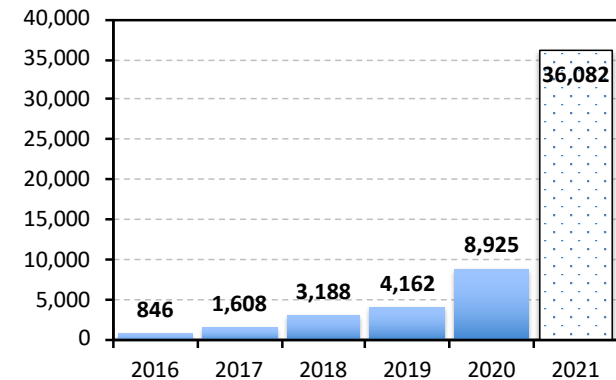
- Stats for build/repo servers (tracking # of unique visitors per month and amount of data downloaded):

<http://build.openhpc.community>
<http://repos.openhpc.community>

- Averaging 19.5 TB/month download in 2021 thus far



Average # of visitors/month



Updated Usage/Access Stats (thru Q2 2021)

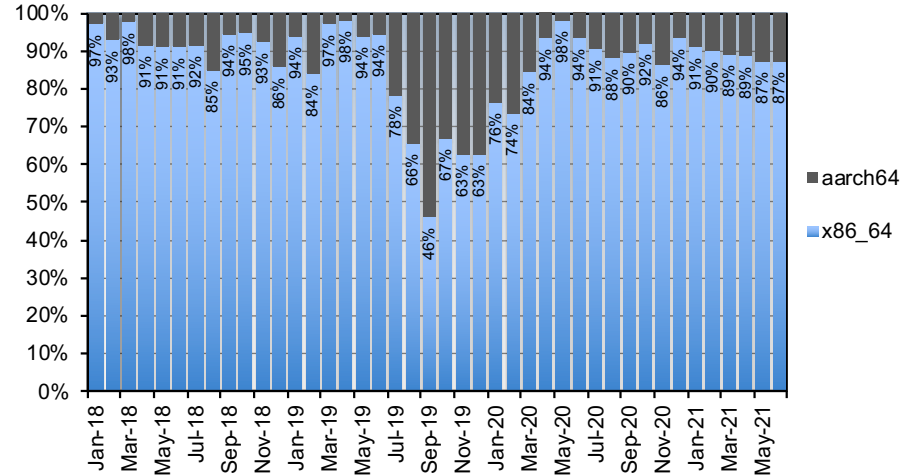
Architecture specific metrics:

- To provide some characterization, we scrape the access logs to analyze two architecture specific file types:

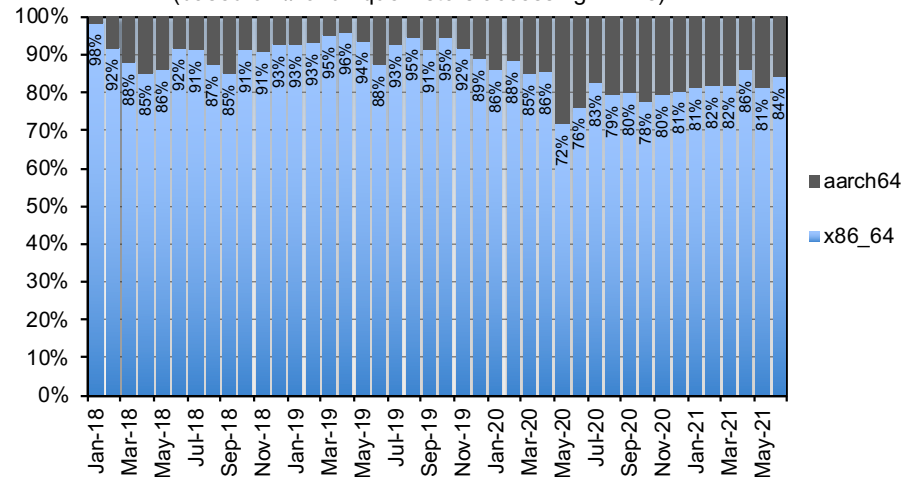
`(aarch64 | x86_64) .rpm`
`(aarch64 | x86_64) .tar`

- Plots compare percentages for the amount of data xfer'ed and the # of unique visitors accessing the (aarch64|x86_64) files
 - includes 2.X repo as of June 2020

Download Comparison by Architecture
 (based on data downloaded)



Download Comparison by Architecture
 (based on # of unique visitors accessing RPMs)

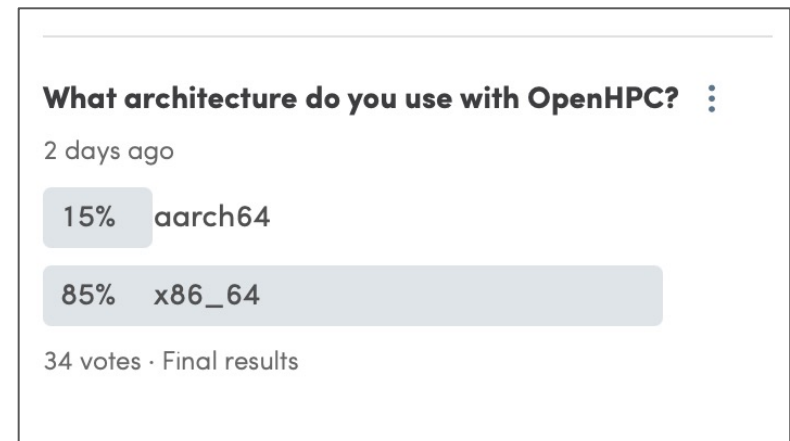
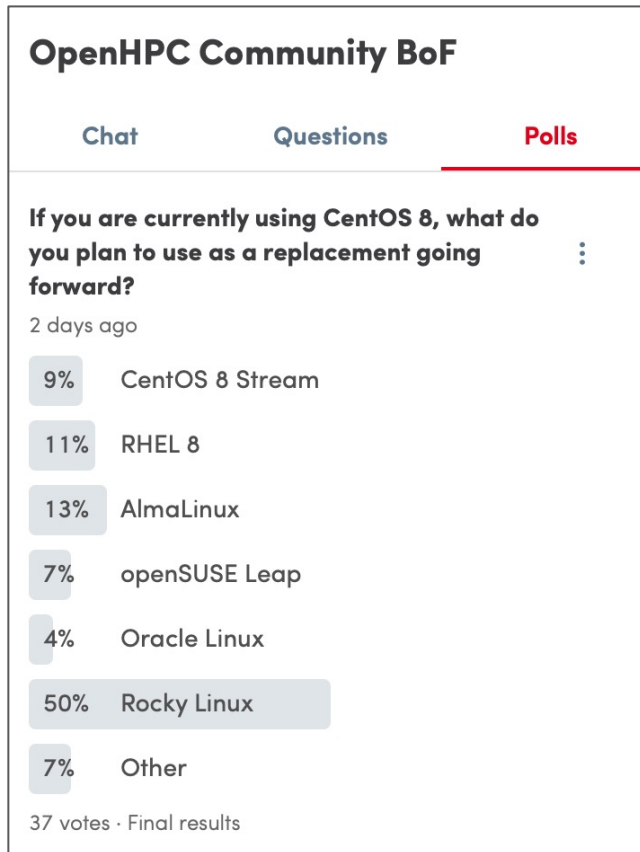


ISC BoF Debrief

- Online BoF session occurred Monday, June 28th
 - Adrian, David, Karl attended
- Turnout was reasonable
 - 68 attendees peak
- Gave a short presentation highlighting 2.X series
 - added to our wiki and google slides available at:
<https://bit.ly/OHPC-ISC21-bof>
- Asked for feedback on distro plans and architecture usage via two polls; then endeavored to respond to audience text questions

ISC BoF - Monday, June 28

- Poll survey results



ISC BoF - Monday, June 28

Questions/comments:

- Is OpenHPC fault tolerant or what is needed to create a fault tolerant setup?
- Are there any numbers about scalability of the solution? Or what is the largest installation yet?
- any work/project for a web interface?
- Is Warewulf 4 on the roadmap?
- Is there already a candidate for a CentOS 8 replacement?
- Are there any plans to include Ubuntu-Server as supported OS?
- Regarding the replacement of Ganglia, so much has been done within OpenHPC to enhance/unlock performance, I think a replacement monitoring/metrification service needs to ensure it doesn't hinder performance of the entire stack.
- FWIW, we have launched a video series on how to deploy OpenHPC (using a virtualbox VM 3 node lab). (Brian Johnston)
- [*on CentOS replacement discussion*] Rocky makes total sense, that seems to be getting the most community backing.(Kenneth Hoste)