



Meeting of the Technical Steering Committee (TSC) Board

Wednesday, October 9th, 2019
11:00am ET

Meeting Logistics

- <https://zoom.us/j/556149142>
- United States : +1 (646) 558-8656
 - Meeting ID: 556 149 142

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Agenda

- SC'19 Event Reminders:
 - OpenHPC BoF, Wednesday, November 20, 12:15pm-1:15pm, Room: 601-603
 - OpenHPC Happy Hour, Wednesday, November 20, 5-7pm, Otra Vez Cantina
 - Booth sign-up sheet now available:
 - <https://docs.google.com/spreadsheets/d/1AGsp6PLuq7Sioa0FvrzoEJpIhO3HECibjtUM4ew1tGc/edit?usp=sharing>
- Multi-arch cluster, Fujitsu
- Repository site
- Q3 2019 access metrics
- Infrastructure updates (CentOS8 is out!)

Multi-arch cluster

- Naohiro Tamura, Fujitsu

Repository site

- A while back we talked about potentially changing our release infrastructure slightly regarding package repositories:
 - currently, our master OBS build server is also our package repository and primary distribution mechanism (<http://build.openhpc.community>)

```
[root@sms005 ~]# cat /etc/yum.repos.d/OpenHPC.repo
```

```
[OpenHPC]
```

```
name=OpenHPC-1.3 - Base
```

```
baseurl=http://build.openhpc.community/OpenHPC:/1.3/CentOS\_7
```

```
gpgcheck=1
```

```
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-OpenHPC-1
```

```
[OpenHPC-updates]
```

```
name=OpenHPC-1.3 - Updates
```

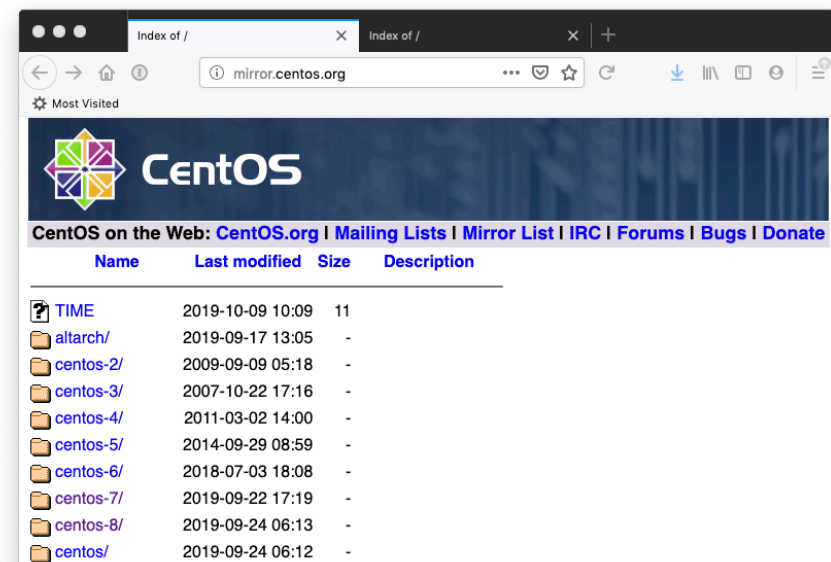
```
baseurl=http://build.openhpc.community/OpenHPC:/1.3/updates/CentOS\_7
```

```
gpgcheck=1
```

```
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-OpenHPC-1
```

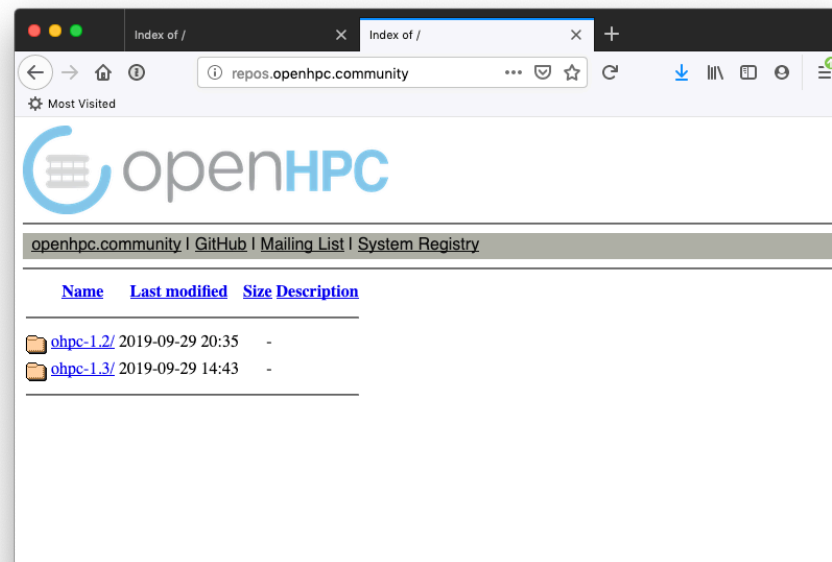
Repository site

- Would like to separate package repo distribution from the build server so we can do maintenance on build server with out impacting end-users:
 - initial thought (from last discussion) was to host the package repos on AWS S3 storage
 - explored this for a while – it is certainly doable to use as package repo source, but lacks some visibility for the end-users
 - you cannot just point a web-browser at S3 bucket and easily peruse the files/directory structure
 - instead, have setup a separate site (EC2 instance) running apache to support package repo distribution:
 - essentially the same as what we have today, but driven by separate instance
 - DNS access at: <http://repos.openhpc.community>
- Apache page configuration shamelessly inspired by CentOS repo pages
- Would like to suggest we move to repos.openhpc.community as release vehicle for 2.x (and have synced over v1.2 and v1.3 trees as well)



The screenshot shows a web browser window with the address bar displaying "mirror.centos.org". The page features the CentOS logo and a navigation bar with links to "CentOS.org", "Mailing Lists", "Mirror List", "IRC", "Forums", "Bugs", and "Donate". Below the navigation bar is a table with columns for "Name", "Last modified", "Size", and "Description".

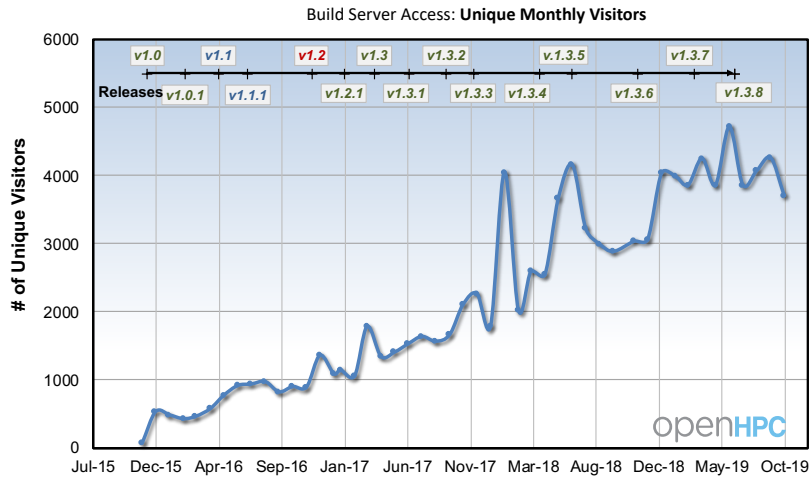
Name	Last modified	Size	Description
TIME	2019-10-09 10:09	11	
altarch/	2019-09-17 13:05	-	
centos-2/	2009-09-09 05:18	-	
centos-3/	2007-10-22 17:16	-	
centos-4/	2011-03-02 14:00	-	
centos-5/	2014-09-29 08:59	-	
centos-6/	2018-07-03 18:08	-	
centos-7/	2019-09-22 17:19	-	
centos-8/	2019-09-24 06:13	-	
centos/	2019-09-24 06:12	-	



The screenshot shows a web browser window with the address bar displaying "repos.openhpc.community". The page features the openHPC logo and a navigation bar with links to "openhpc.community", "GitHub", "Mailing List", and "System Registry". Below the navigation bar is a table with columns for "Name", "Last modified", "Size", and "Description".

Name	Last modified	Size	Description
ohpc-1.2/	2019-09-29 20:35	-	
ohpc-1.3/	2019-09-29 14:43	-	

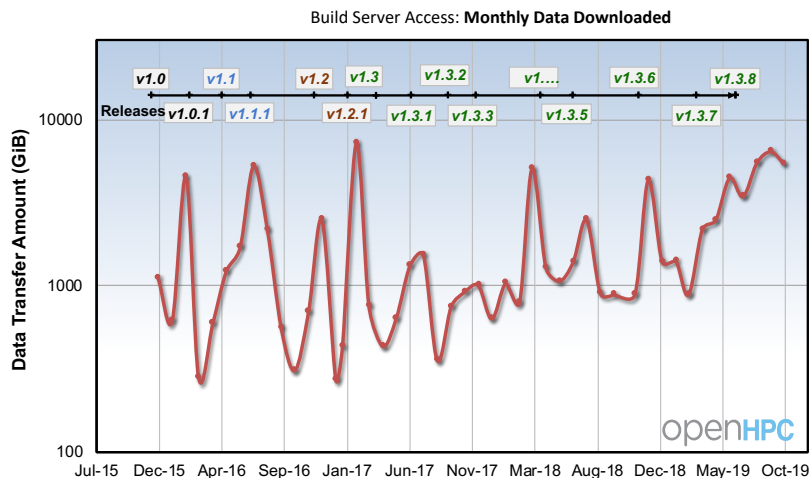
Updated Usage/Access Statistics (thru Sept. 2019)



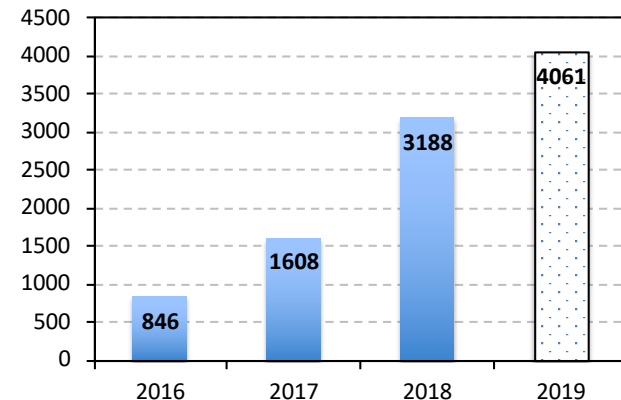
- Stats for build/repo server (tracking # of unique visitors per month and amount of data downloaded):

<http://build.openhpc.community>

- Averaging ~3.5 TB/month download in 2019

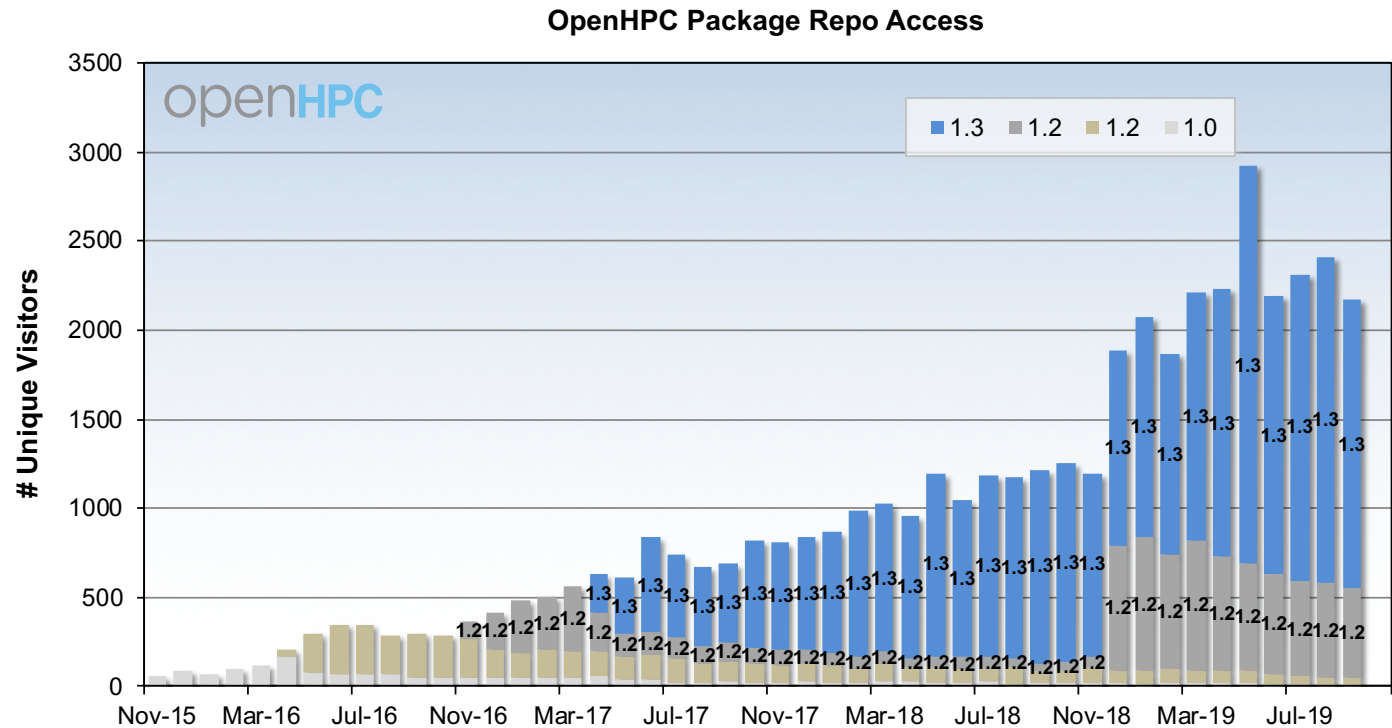


Average # of visitors/month



Updated Usage/Access Stats (thru Sept. 2019)

- These stats monitor access specifically to package repository metadata (typically expected to be via yum/zypper)
- Repo access binned by minor version



Updated Usage/Access Stats (thru Sept. 2019)

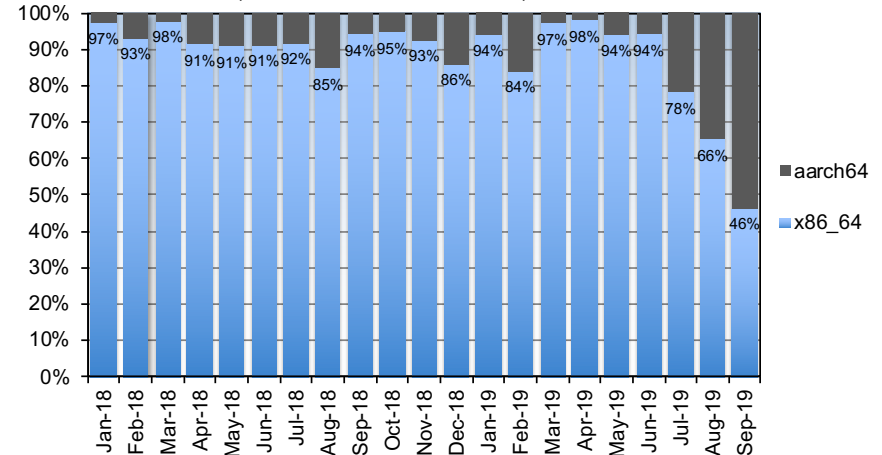
Architecture specific metrics:

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

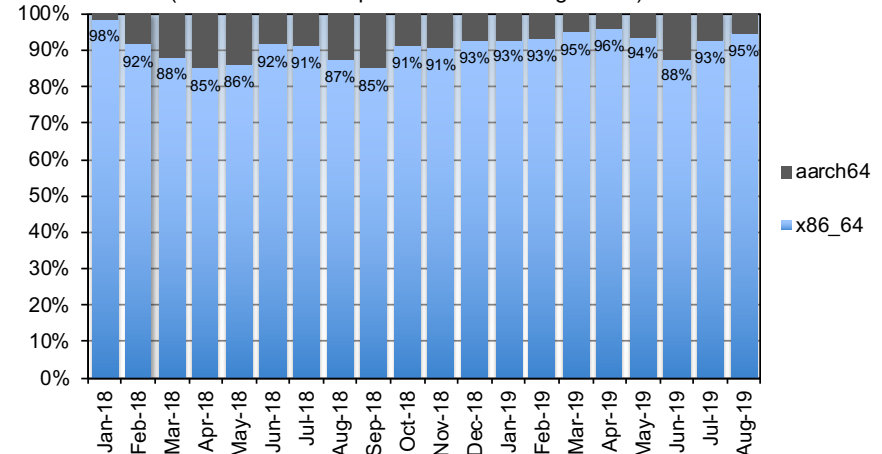
`(aarch64 | x86_64) .rpm`
`(aarch64 | x86_64) .tar`

- Plots compare percentages for the amount of data xfer'ed and the # of unique visitors accessing the (aarch64|x86_64) files

Download Comparison by Architecture
(based on data downloaded)



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



Infrastructure Updates

- CentOS 7.7 and 8.0 are both out now
 - both have been ingested into our OBS build system (aarch64 and x86_64)
- CentOS 7.7 image setup in our CI system
 - ran previous v1.3.8.1 ohpc release against this update with several x86_64 CI jobs
 - no issues detected for non-kernel related packages
 - rebuild of lustre-client is an issue, however (kernel removed expected header file)
- Have also imported newer Parallel Studio (2019u5) into OBS
- Working on creating Github issues for new versions components in v1.3.9 (and tracking issues for 2.0 as well)