

Ceph - Bug #40295

OBS fails to build master due to RPATH issue

06/12/2019 10:38 AM - Nathan Cutler

Status:	Resolved	% Done:	0%
Priority:	Normal	Spent time:	0.00 hour
Assignee:	Nathan Cutler		
Category:			
Target version:			
Source:		Affected Versions:	
Tags:		ceph-qa-suite:	
Backport:	nautilus	Pull request ID:	28508
Regression:	No	Crash signature (v1):	
Severity:	3 - minor	Crash signature (v2):	
Reviewed:			

Description

The following FTBFS happens on ppc64le in the OpenSUSE Build Service:

```
[11025s] Install the project...
[11025s] -- Install configuration: "RelWithDebInfo"
[11025s] -- Installing: /home/abuild/rpmbuild/BUILDROOT/ceph-15.0.0-1758.1.ppc64le/usr/lib64/ceph/
libceph-common.so.0
[11026s] -- Installing: /home/abuild/rpmbuild/BUILDROOT/ceph-15.0.0-1758.1.ppc64le/usr/bin/librado
s-config
[11026s] -- Set runtime path of "/home/abuild/rpmbuild/BUILDROOT/ceph-15.0.0-1758.1.ppc64le/usr/bi
n/librados-config" to "/usr/lib64/ceph"
[11026s] -- Installing: /home/abuild/rpmbuild/BUILDROOT/ceph-15.0.0-1758.1.ppc64le/usr/bin/ceph-mo
n
[11026s] -- Set runtime path of "/home/abuild/rpmbuild/BUILDROOT/ceph-15.0.0-1758.1.ppc64le/usr/bi
n/ceph-mon" to "/usr/lib64/ceph"
[11026s] -- Installing: /home/abuild/rpmbuild/BUILDROOT/ceph-15.0.0-1758.1.ppc64le/usr/bin/ceph-os
d
[11027s] CMake Error at src/cmake_install.cmake:114 (file):
[11027s]   file RPATH_CHANGE could not write new RPATH:
[11027s]
[11027s]     /usr/lib64/ceph
[11027s]
[11027s]   to the file:
[11027s]
[11027s]     /home/abuild/rpmbuild/BUILDROOT/ceph-15.0.0-1758.1.ppc64le/usr/bin/ceph-osd
[11027s]
[11027s]   No valid ELF RPATH or RUNPATH entry exists in the file;
[11027s] Call Stack (most recent call first):
[11027s]   cmake_install.cmake:42 (include)
[11027s]
[11027s]
[11027s] make: *** [Makefile:84: install] Error 1
[11027s] error: Bad exit status from /var/tmp/rpm-tmp.z1SU5B (%install)
[11027s]
[11027s]
[11027s] RPM build errors:
[11027s]   Bad exit status from /var/tmp/rpm-tmp.z1SU5B (%install)
[11028s]
```

Though Ceph is not at fault here, we can easily work around the issue.

I would argue that adding the workaround is the correct course of action, because it preserves the ability to build master on ppc64le in the OBS.

Note that we have this same workaround in place for a number of other binaries:

```
smithfarm@wilbur:~/src/ceph/smithfarm/ceph/src> ag RPATH
compressor/snappy/CMakeLists.txt
12:  INSTALL_RPATH "")

compressor/zlib/CMakeLists.txt
46:  INSTALL_RPATH "")

compressor/zstd/CMakeLists.txt
42:  INSTALL_RPATH "")

compressor/lz4/CMakeLists.txt
12:  INSTALL_RPATH "")

tracing/CMakeLists.txt
40:  INSTALL_RPATH "")

cls/CMakeLists.txt
10:  INSTALL_RPATH ""
20:  INSTALL_RPATH ""
30:  INSTALL_RPATH ""
45:  INSTALL_RPATH ""
61:  INSTALL_RPATH ""
80:  INSTALL_RPATH ""
101: INSTALL_RPATH ""
117: INSTALL_RPATH ""
133: INSTALL_RPATH ""
147: INSTALL_RPATH ""
161: INSTALL_RPATH ""
180: INSTALL_RPATH ""
202:  INSTALL_RPATH ""
222:  INSTALL_RPATH ""
240: INSTALL_RPATH ""
258: INSTALL_RPATH ""

erasure-code/isa/CMakeLists.txt
66:  INSTALL_RPATH "")

erasure-code/jerasure/CMakeLists.txt
91:  INSTALL_RPATH "")
100:  INSTALL_RPATH "")

erasure-code/lrc/CMakeLists.txt
13:  INSTALL_RPATH "")

erasure-code/shec/CMakeLists.txt
21:  INSTALL_RPATH "")
30:  INSTALL_RPATH "")

erasure-code/clay/CMakeLists.txt
13:  INSTALL_RPATH "")

mount/CMakeLists.txt
7:  INSTALL_RPATH "")

key_value_store/CMakeLists.txt
6:  INSTALL_RPATH "")

CMakeLists.txt
11:set(CMAKE_INSTALL_RPATH_USE_LINK_PATH TRUE)
12:if(NOT CMAKE_INSTALL_RPATH)
13:  set(CMAKE_INSTALL_RPATH "${CEPH_INSTALL_FULL_PKGLIBDIR}")
405:  INSTALL_RPATH "")
```

517: INSTALL_RPATH "")

Related issues:

Related to Ceph - Bug #40398: OBS fails to build master due to RPATH issue in...

Resolved

06/17/2019

Copied to Ceph - Backport #40301: nautilus: OBS fails to build master due to ...

Resolved

History**#1 - 06/12/2019 10:43 AM - Nathan Cutler**

- Description updated

#2 - 06/12/2019 10:44 AM - Nathan Cutler

- Status changed from New to Fix Under Review

- Pull request ID set to 28508

#3 - 06/12/2019 03:05 PM - Kefu Chai

- Status changed from Fix Under Review to Pending Backport

#4 - 06/12/2019 03:32 PM - Nathan Cutler

- Copied to Backport #40301: nautilus: OBS fails to build master due to RPATH issue added

#5 - 06/17/2019 11:40 AM - Nathan Cutler

- Related to Bug #40398: OBS fails to build master due to RPATH issue in libceph_crypto_isal.so.1.0.0 added

#6 - 06/19/2019 05:32 PM - Nathan Cutler

- Status changed from Pending Backport to Resolved