

Ceph - Fix #49896

qa: verify the benefits of mempool cacheline optimization

03/19/2021 07:40 AM - Loïc Dachary

Status:	Resolved	% Done:	0%
Priority:	Normal	Spent time:	0.00 hour
Assignee:	Loïc Dachary		
Category:	common		
Target version:			
Source:		ceph-qa-suite:	
Tags:		Pull request ID:	41014
Backport:		Crash signature (v1):	
Reviewed:		Crash signature (v2):	
Affected Versions:			
Description			
The cacheline optimization in mempool needs testing to guard against regressions and measure how it performs.			
See also the discussion on the mailing list about mempool optimization			
Related issues:			
Related to RADOS - Bug #49781: unittest_mempool.check_shard_select failed		Resolved	

History

#1 - 03/19/2021 07:40 AM - Loïc Dachary

- Related to Bug #49781: unittest_mempool.check_shard_select failed added

#2 - 03/19/2021 07:45 AM - Loïc Dachary

- File 0001-qa-verify-the-benefits-of-mempool-cacheline-optimiza.patch added

Here is how it could be done (please let me know if there is a better way):

- Write a test program (ceph_test_c2c) that can run in two modes: with and without the optimization
- Add a teuthology workunit in standalone part of the rados suite to do the following:
 - Run ceph_test_c2c --no-optimization
 - Run perf c2c & save the data
 - Run ceph_test c2c --with-optimization
 - Run perf c2c & save the data
 - Verify the optimized version performs at least X% better

The attached patch shows the skeleton of this test.

#3 - 03/19/2021 07:46 AM - Loïc Dachary

- Description updated

#4 - 04/26/2021 07:24 AM - Loïc Dachary

- Pull request ID set to 41014

#5 - 04/26/2021 07:28 AM - Loïc Dachary

@smithfarm, would you be so kind as to update the pull request description to reference Fixes: <https://tracker.ceph.com/issues/49896> instead of Refs: <https://tracker.ceph.com/issues/49781> ? My mistake :-)

I also re-pushed the commit in <https://lab.fedeproxy.eu/ceph/ceph/-/tree/wip-mempool-cacheline-49781/> and it would be great if you could also push it in the pull request so the commit message is in sync.

#6 - 04/30/2021 11:38 AM - Kefu Chai

- Status changed from *In Progress* to *Resolved*

Files

0001-qa-verify-the-benefits-of-mempool-cacheline-optimiza.patch	5.01 KB	03/19/2021	Loïc Dachary
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