

RADOS - Bug #16500

ceph_erasure_code_benchmark parameter checking error for LRC plugin

06/28/2016 03:17 AM - Ting-Yi Lin

Status:	Resolved	% Done:	0%
Priority:	Normal	Spent time:	0.00 hour
Assignee:	Kefu Chai		
Category:	Tests		
Target version:			
Source:	other	Affected Versions:	
Tags:		ceph-qa-suite:	
Backport:		Component(RADOS):	EC plugins
Regression:	No	Pull request ID:	
Severity:	3 - minor	Crash signature (v1):	
Reviewed:		Crash signature (v2):	

Description

There's no parameter set could pass the parameter checking in cep_erasure_code_benchmark while using LRC.

```
if (erasure_code->get_data_chunk_count() != (unsigned int)k ||
    (erasure_code->get_chunk_count() - erasure_code->get_data_chunk_count()
     != (unsigned int)m)) {
    cout << "paramter k is " << k << "/m is " << m << ". But data chunk count is "
         << erasure_code->get_data_chunk_count() << "/parity chunk count is "
         << erasure_code->get_chunk_count() - erasure_code->get_data_chunk_count() << endl;
    return -EINVAL;
}
```

This checking blocks valid LRC parameters (e.g. k=4, m=2, l=3) and return error. I cannot run LRC benchmark since all the parameter combinations fail in either ceph_erasure_code_benchmark or LRC plugin.

This can be reproduced by

```
$ ceph_erasure_code_benchmark --plugin lrc --workload encode --iterations 1048576 --size 4096 --parameter k=4 --parameter m=2
--parameter l=3 --erasure-code-dir /usr/lib64/ceph/erasure-code/
```

History

#1 - 06/14/2017 03:26 AM - Greg Farnum

- Project changed from Ceph to RADOS
- Category set to EC Pools
- Component(RADOS) EC plugins added

#2 - 11/12/2018 02:57 AM - Kefu Chai

- Category changed from EC Pools to Tests
- Status changed from New to Fix Under Review
- Assignee set to Kefu Chai

<https://github.com/ceph/ceph/pull/25046>

#3 - 11/16/2018 10:34 AM - Kefu Chai

- Status changed from Fix Under Review to Resolved