



Hadoop HDFS / [HDFS-5182 BlockReaderLocal must allow zero-copy reads only when the DN believes it's valid](#) / [HDFS-6086](#)

Fix a case where zero-copy or no-checksum reads were not allowed even when the block was cached

▼ Details

Type:	Sub-task	Status:	CLOSED
Priority:	Major	Resolution:	Fixed
Affects Version/s:	2.4.0	Fix Version/s:	2.4.0
Component/s:	datanode		
Labels:	None		
Target Version/s:	2.4.0		

▼ Description

We need to fix a case where zero-copy or no-checksum reads are not allowed even when the block is cached. The case is when the block is cached before the REQUEST_SHORT_CIRCUIT_FDS operation begins. In this case, DataXceiver needs to consult the ShortCircuitRegistry to see if the block is cached, rather than relying on a callback.

▼ Attachments

HDFS-6086.001.patch	8 kB	11/Mar/14 03:26
HDFS-6086.002.patch	10 kB	11/Mar/14 06:34

▼ Activity

▼ [Hadoop QA](#) added a comment - 11/Mar/14 04:51

-1 overall.

Here are the results of testing the latest attachment <http://issues.apache.org/jira/secure/attachment/12633845/HDFS-6086.001.patch> against trunk revision .

+1 @author.

The patch does not contain any @author tags.

+1 tests included.

The patch appears to include 1 new or modified test files.

-1 javac.

The patch appears to cause the build to fail.

Console output: <https://builds.apache.org/job/PreCommit-HDFS-Build/6368//console>

This message is automatically generated.

▼ [Colin McCabe](#) added a comment - 11/Mar/14 06:34

- Fix compilation failure due to updating FSDatasetSpi interface
- change log level of cache report acknowledgement log message in CacheManager**

▼ [Hadoop QA](#) added a comment - 11/Mar/14 09:14

+1 overall.

Here are the results of testing the latest attachment <http://issues.apache.org/jira/secure/attachment/12633862/HDFS-6086.002.patch> against trunk revision .

+1 @author.

The patch does not contain any @author tags.

+1 tests included.

The patch appears to include 2 new or modified test files.

+1 javac.

The applied patch does not increase the total number of javac compiler warnings.

+1 javadoc.

There were no new javadoc warning messages.

<https://issues.apache.org/jira/browse/HDFS-6086>

1/4

+1 [eclipse:eclipse](#). The patch built with eclipse:eclipse.

+1 [findbugs](#). The patch does not introduce any new Findbugs (version 1.3.9) warnings.

+1 [release audit](#). The applied patch does not increase the total number of release audit warnings.

+1 [core tests](#). The patch passed unit tests in hadoop-hdfs-project/hadoop-hdfs.

+1 [contrib tests](#). The patch passed contrib unit tests.

Test results: <https://builds.apache.org/job/PreCommit-HDFS-Build/6370/testReport/>

Console output: <https://builds.apache.org/job/PreCommit-HDFS-Build/6370/console>

This message is automatically generated.

▼ [Andrew Wang](#) added a comment - 11/Mar/14 22:05

+1 looks good, thanks Colin

▼ [Colin McCabe](#) added a comment - 11/Mar/14 22:43

committed, thanks!

▼ [Hudson](#) added a comment - 11/Mar/14 23:03

SUCCESS: Integrated in Hadoop-trunk-Commit #5308 (See <https://builds.apache.org/job/Hadoop-trunk-Commit/5308/>) [HDFS-6086](#). Fix a case where zero-copy or no-checksum reads were not allowed even when the block was cached. (cmccabe) (cmccabe: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1576533>)


- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/client/ShortCircuitReplica.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/DataXceiver.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/ShortCircuitRegistry.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/FsDatasetSpi.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/impl/FsDatasetCache.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/impl/FsDatasetImpl.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/CacheManager.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/fs/TestEnhancedByteBufferAccess.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/server/datanode/SimulatedFSDataset.java

▼ [Hudson](#) added a comment - 12/Mar/14 11:06

FAILURE: Integrated in Hadoop-Yarn-trunk #507 (See <https://builds.apache.org/job/Hadoop-Yarn-trunk/507/>) [HDFS-6086](#). Fix a case where zero-copy or no-checksum reads were not allowed even when the block was cached. (cmccabe) (cmccabe: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1576533>)

- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/client/ShortCircuitReplica.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/DataXceiver.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/ShortCircuitRegistry.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/FsDatasetSpi.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/impl/FsDatasetCache.java

- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/impl/FsDatasetImpl.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/CacheManager.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/fs/TestEnhancedByteBufferAccess.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/server/datanode/SimulatedFSDataset.java

▼  Hudson added a comment - 12/Mar/14 13:53

SUCCESS: Integrated in Hadoop-Hdfs-trunk #1699 (See <https://builds.apache.org/job/Hadoop-Hdfs-trunk/1699/>)
~~HDFS-6086~~. Fix a case where zero-copy or no-checksum reads were not allowed even when the block was cached. (cmccabe)
 (cmccabe: <http://svn.apache.org/viewcvcs.cgi?root=Apache-SVN&view=rev&rev=1576533>)

- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/client/ShortCircuitReplica.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/DataXceiver.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/ShortCircuitRegistry.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/FsDatasetSpi.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/impl/FsDatasetCache.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/impl/FsDatasetImpl.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/CacheManager.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/fs/TestEnhancedByteBufferAccess.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/server/datanode/SimulatedFSDataset.java

▼  Hudson added a comment - 12/Mar/14 14:59

SUCCESS: Integrated in Hadoop-Mapreduce-trunk #1724 (See <https://builds.apache.org/job/Hadoop-Mapreduce-trunk/1724/>)
~~HDFS-6086~~. Fix a case where zero-copy or no-checksum reads were not allowed even when the block was cached. (cmccabe)
 (cmccabe: <http://svn.apache.org/viewcvcs.cgi?root=Apache-SVN&view=rev&rev=1576533>)


- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/client/ShortCircuitReplica.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/DataXceiver.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/ShortCircuitRegistry.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/FsDatasetSpi.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/impl/FsDatasetCache.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/fsdataset/impl/FsDatasetImpl.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/CacheManager.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/fs/TestEnhancedByteBufferAccess.java
- /hadoop/common/trunk/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/server/datanode/SimulatedFSDataset.java

▼ People

Assignee:

 Colin McCabe

Reporter:

 Colin McCabe

Votes:

 0 Vote for this issue

Watchers:

 5 Start watching this issue

▼ Dates

Created:

11/Mar/14 02:26

Updated:

10/Apr/14 13:11

Resolved:

11/Mar/14 22:43