

**git\_comments:**

1. \* \* Used as a hook to inject failure in erasure coding checksum reconstruction \* process.
2. Get checksum again with reconstruction. If the reconstruction task fails, a client try to get checksum from another DN which has a block of the block group because of a failure of getting result.
3. get checksum

**git\_commits:**

1. **summary:** HDFS-15795. EC: Wrong checksum when reconstruction was failed by exception. Contributed by Yushi Hayasaka (#2657)  
**message:** HDFS-15795. EC: Wrong checksum when reconstruction was failed by exception. Contributed by Yushi Hayasaka (#2657) (cherry picked from commit 18978f2e204d105fb05807d33387a048e9ddb762)

**github\_issues:****github\_issues\_comments:****github\_pulls:**

1. **title:** HDFS-15795. EC: Fix returning wrong checksum when reconstruction was fail...  
**body:** ...ed by exception. ## NOTICE Please create an issue in ASF JIRA before opening a pull request, and you need to set the title of the pull request which starts with the corresponding JIRA issue number. (e.g. HADOOP-XXXXX. Fix a typo in YYY.) For more details, please see <https://cwiki.apache.org/confluence/display/HADOOP/How+To+Contribute>

**github\_pulls\_comments:**

1. :broken\_heart: \*\* -1 overall\*\* | Vote | Subsystem | Runtime | Logfile | Comment | | :----: | | :-----: | | :-----: | | :-----: | | +0 :ok: | reexec | 39m 55s | | Docker mode activated. | | ||| \_ Prechecks \_ | | +1 :green\_heart: | dupname | 0m 0s | | No case conflicting files found. | | +1 :green\_heart: | @author | 0m 0s | | The patch does not contain any @author tags. | | +1 :green\_heart: | | 0m 0s | [test4tests](test4tests) | The patch appears to include 1 new or modified test files. | | ||| \_ trunk Compile Tests \_ | | +1 :green\_heart: | mvninstall | 37m 38s | | trunk passed | | +1 :green\_heart: | compile | 1m 38s | | trunk passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | compile | 1m 18s | | trunk passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +1 :green\_heart: | checkstyle | 1m 10s | | trunk passed | | +1 :green\_heart: | mvnsite | 1m 40s | | trunk passed | | -1 :x: | shadedclient | 6m 49s | | branch has errors when building and testing our client artifacts. | | +1 :green\_heart: | javadoc | 1m 1s | | trunk passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | javadoc | 1m 37s | | trunk passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +0 :ok: | spotbugs | 3m 57s | | Used deprecated FindBugs config; considering switching to SpotBugs. | | +1 :green\_heart: | findbugs | 3m 54s | | trunk passed | | -0 :warning: | patch | 4m 14s | | Used diff version of patch file. Binary files and potentially other changes not applied. Please rebase and squash commits if necessary. | | ||| \_ Patch Compile Tests \_ | | +1 :green\_heart: | mvninstall | 1m 28s | | the patch passed | | +1 :green\_heart: | compile | 1m 30s | | the patch passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | javac | 1m 30s | | the patch passed | | +1 :green\_heart: | compile | 1m 18s | | the patch passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +1 :green\_heart: | javac | 1m 18s | | the patch passed | | -0 :warning: | checkstyle | 1m 1s | | [/diff-checkstyle-hadoop-hdfs-project\_hadoop-hdfs.txt](https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/1/artifact/out/diff-checkstyle-hadoop-hdfs-project\_hadoop-hdfs.txt) | hadoop-hdfs-project/hadoop-hdfs: The patch generated 1 new + 0 unchanged - 0 fixed = 1 total (was 0) | | +1 :green\_heart: | mvnsite | 1m 23s | | the patch passed | | +1 :green\_heart: | whitespace | 0m 0s | | The patch has no whitespace issues. | | +1 :green\_heart: | shadedclient | 14m 33s | | patch has no errors when building and testing our client artifacts. | | +1 :green\_heart: | javadoc | 0m 49s | | the patch passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | javadoc | 1m 23s | | the patch passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +1 :green\_heart: | findbugs | 3m 8s | | the patch passed | | ||| \_ Other Tests \_ | | -1 :x: | unit | 194m 20s | | [/patch-unit-hadoop-hdfs-project\_hadoop-hdfs.txt](https://ci-

[hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/1/artifact/out/patch-unit-hadoop-hdfs-project\\_hadoop-hdfs.txt](https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/1/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt)) | hadoop-hdfs in the patch passed. | +1 :green\_heart: | asflicense | 0m 43s | | The patch does not generate ASF License warnings. | | | 319m 41s | | | Reason | Tests | |-----:|-----| | Failed junit tests | hadoop.hdfs.server.namenode.TestFsck | | Subsystem | Report/Notes | |-----:|-----| | Docker | ClientAPI=1.41 ServerAPI=1.41 base: <https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/1/artifact/out/Dockerfile> | | GITHUB PR | <https://github.com/apache/hadoop/pull/2657> | | Optional Tests | dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux 62bd850a1482 4.15.0-58-generic #64-Ubuntu SMP Tue Aug 6 11:12:41 UTC 2019 x86\_64 x86\_64 x86\_64 GNU/Linux | | Build tool | maven | | Personality | dev-support/bin/hadoop.sh | | git revision | trunk / f8769e0f4b9 | | Default Java | Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | Multi-JDK versions | /usr/lib/jvm/java-11-openjdk-amd64:Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 /usr/lib/jvm/java-8-openjdk-amd64:Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | Test Results | <https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/1/testReport/> | | Max. process+thread count | 3191 (vs. ulimit of 5500) | | modules | C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs | | Console output | <https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/1/console> | | versions | git=2.25.1 maven=3.6.3 findbugs=4.0.6 | | Powered by | Apache Yetus 0.13.0-SNAPSHOT <https://yetus.apache.org> | This message was automatically generated.

2. :broken\_heart: \*\* -1 overall\*\* | Vote | Subsystem | Runtime | Logfile | Comment | |-----:|-----:|-----:|-----:| +0 :ok: | reexec | 2m 1s | | Docker mode activated. | | | \_ Prechecks \_ | | +1 :green\_heart: | dupname | 0m 0s | | No case conflicting files found. | | +1 :green\_heart: | @author | 0m 0s | | The patch does not contain any @author tags. | | +1 :green\_heart: | | 0m 0s | [test4tests](test4tests) | The patch appears to include 1 new or modified test files. | | | \_ trunk Compile Tests \_ | | +1 :green\_heart: | mvninstall | 35m 54s | | trunk passed | | +1 :green\_heart: | compile | 1m 19s | | trunk passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | compile | 1m 12s | | trunk passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +1 :green\_heart: | checkstyle | 0m 58s | | trunk passed | | +1 :green\_heart: | mvnsite | 1m 23s | | trunk passed | | +1 :green\_heart: | shadedclient | 16m 13s | | branch has no errors when building and testing our client artifacts. | | +1 :green\_heart: | javadoc | 0m 51s | | trunk passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | javadoc | 1m 26s | | trunk passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +0 :ok: | spotbugs | 3m 17s | | Used deprecated FindBugs config; considering switching to SpotBugs. | | +1 :green\_heart: | findbugs | 3m 15s | | trunk passed | | -0 :warning: | patch | 3m 33s | | Used diff version of patch file. Binary files and potentially other changes not applied. Please rebase and squash commits if necessary. | | | \_ Patch Compile Tests \_ | | +1 :green\_heart: | mvninstall | 1m 11s | | the patch passed | | +1 :green\_heart: | compile | 1m 15s | | the patch passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | javac | 1m 15s | | the patch passed | | +1 :green\_heart: | compile | 1m 8s | | the patch passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +1 :green\_heart: | javac | 1m 8s | | the patch passed | | -0 :warning: | checkstyle | 0m 52s | | [/diff-checkstyle-hadoop-hdfs-project\_hadoop-hdfs.txt]([https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/2/artifact/out/diff-checkstyle-hadoop-hdfs-project\\_hadoop-hdfs.txt](https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/2/artifact/out/diff-checkstyle-hadoop-hdfs-project_hadoop-hdfs.txt)) | hadoop-hdfs-project/hadoop-hdfs: The patch generated 1 new + 0 unchanged - 0 fixed = 1 total (was 0) | | +1 :green\_heart: | mvnsite | 1m 15s | | the patch passed | | +1 :green\_heart: | whitespace | 0m 0s | | The patch has no whitespace issues. | | +1 :green\_heart: | shadedclient | 13m 10s | | patch has no errors when building and testing our client artifacts. | | +1 :green\_heart: | javadoc | 0m 48s | | the patch passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | javadoc | 1m 18s | | the patch passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +1 :green\_heart: | findbugs | 3m 7s | | the patch passed | | | \_ Other Tests \_ | | -1 :x: | unit | 241m 23s | | [/patch-unit-hadoop-hdfs-project\_hadoop-hdfs.txt]([https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/2/artifact/out/patch-unit-hadoop-hdfs-project\\_hadoop-hdfs.txt](https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/2/artifact/out/patch-unit-hadoop-hdfs-project_hadoop-hdfs.txt)) | hadoop-hdfs in the patch passed. | | +1 :green\_heart: | asflicense | 0m 42s | | The patch does not generate ASF License warnings. | | | 332m 34s | | | Reason | Tests | |-----:|-----| | Failed junit tests | hadoop.hdfs.server.namenode.TestDecommissioningStatus | | | hadoop.hdfs.server.namenode.TestDiskspaceQuotaUpdate | | | hadoop.hdfs.TestRollingUpgrade | | Subsystem | Report/Notes | |-----:|-----:| | Docker | ClientAPI=1.41 ServerAPI=1.41 base: <https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/2/artifact/out/Dockerfile> | | GITHUB PR | <https://github.com/apache/hadoop/pull/2657> | | Optional Tests | dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux 77a2118f48f3 4.15.0-65-generic #74-Ubuntu SMP Tue Sep 17 17:06:04 UTC 2019 x86\_64 x86\_64 x86\_64 GNU/Linux | | Build tool | maven | | Personality | dev-support/bin/hadoop.sh | | git revision | trunk / f8769e0f4b9 | | Default Java | Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | Multi-JDK versions |

/usr/lib/jvm/java-11-openjdk-amd64:Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 /usr/lib/jvm/java-8-openjdk-amd64:Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 || Test Results | <https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/2/testReport/> || Max. process+thread count | 2871 (vs. ulimit of 5500) || modules | C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs || Console output | <https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/2/console> || versions | git=2.25.1 maven=3.6.3 findbugs=4.0.6 || Powered by | Apache Yetus 0.13.0-SNAPSHOT <https://yetus.apache.org> | This message was automatically generated.

3. @sodonnell Thanks for taking a look! It sounds good. Let me fix this.

4. :broken\_heart: \*-1 overall\* | Vote | Subsystem | Runtime | Logfile | Comment | |:----:|-----:|-----:|:-----:|:-----:| | +0 :ok: | reexec | 0m 32s | | Docker mode activated. | ||| \_ Prechecks \_ | | +1 :green\_heart: | dupname | 0m 0s | | No case conflicting files found. | | +1 :green\_heart: | @author | 0m 0s | | The patch does not contain any @author tags. | | +1 :green\_heart: | | 0m 0s | [test4tests](test4tests) | The patch appears to include 1 new or modified test files. | ||| \_ trunk Compile Tests \_ | | +1 :green\_heart: | mvninstall | 32m 24s | | trunk passed | | +1 :green\_heart: | compile | 1m 19s | | trunk passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | compile | 1m 14s | | trunk passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +1 :green\_heart: | checkstyle | 1m 1s | | trunk passed | | +1 :green\_heart: | mvnsite | 1m 22s | | trunk passed | | +1 :green\_heart: | shadedclient | 15m 40s | | branch has no errors when building and testing our client artifacts. | | +1 :green\_heart: | javadoc | 0m 54s | | trunk passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | javadoc | 1m 26s | | trunk passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +0 :ok: | spotbugs | 3m 4s | | Used deprecated FindBugs config; considering switching to SpotBugs. | | +1 :green\_heart: | findbugs | 3m 1s | | trunk passed | | -0 :warning: | patch | 3m 20s | | Used diff version of patch file. Binary files and potentially other changes not applied. Please rebase and squash commits if necessary. | ||| \_ Patch Compile Tests \_ | | +1 :green\_heart: | mvninstall | 1m 11s | | the patch passed | | +1 :green\_heart: | compile | 1m 10s | | the patch passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | javac | 1m 10s | | the patch passed | | +1 :green\_heart: | compile | 1m 6s | | the patch passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +1 :green\_heart: | javac | 1m 6s | | the patch passed | | +1 :green\_heart: | checkstyle | 0m 53s | | the patch passed | | +1 :green\_heart: | mvnsite | 1m 10s | | the patch passed | | +1 :green\_heart: | whitespace | 0m 0s | | The patch has no whitespace issues. | | +1 :green\_heart: | shadedclient | 12m 48s | | patch has no errors when building and testing our client artifacts. | | +1 :green\_heart: | javadoc | 0m 50s | | the patch passed with JDK Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 | | +1 :green\_heart: | javadoc | 1m 24s | | the patch passed with JDK Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | +1 :green\_heart: | findbugs | 3m 6s | | the patch passed | ||| \_ Other Tests \_ | | -1 :x: | unit | 189m 18s | [/patch-unit-hadoop-hdfs-project\_hadoop-hdfs.txt](https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/3/artifact/out/patch-unit-hadoop-hdfs-project\_hadoop-hdfs.txt) | hadoop-hdfs in the patch passed. | | +1 :green\_heart: | asflicense | 0m 43s | | The patch does not generate ASF License warnings. | ||| 274m 21s | ||| Reason | Tests | |-----:|:-----:| | Failed junit tests | hadoop.hdfs.server.namenode.ha.TestBootstrapAliasmap | | Subsystem | Report/Notes | |-----:|:-----:| | Docker | ClientAPI=1.41 ServerAPI=1.41 base: <https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/3/artifact/out/Dockerfile> | | GITHUB PR | <https://github.com/apache/hadoop/pull/2657> | | Optional Tests | dupname asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux 158449faff31 4.15.0-58-generic #64-Ubuntu SMP Tue Aug 6 11:12:41 UTC 2019 x86\_64 x86\_64 x86\_64 GNU/Linux | | Build tool | maven | | Personality | dev-support/bin/hadoop.sh | | git revision | trunk / fa15594ae60 | | Default Java | Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | Multi-JDK versions | /usr/lib/jvm/java-11-openjdk-amd64:Ubuntu-11.0.9.1+1-Ubuntu-0ubuntu1.20.04 /usr/lib/jvm/java-8-openjdk-amd64:Private Build-1.8.0\_275-8u275-b01-0ubuntu1~20.04-b01 | | Test Results | <https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/3/testReport/> || Max. process+thread count | 3427 (vs. ulimit of 5500) || modules | C: hadoop-hdfs-project/hadoop-hdfs U: hadoop-hdfs-project/hadoop-hdfs || Console output | <https://ci-hadoop.apache.org/job/hadoop-multibranch/job/PR-2657/3/console> || versions | git=2.25.1 maven=3.6.3 findbugs=4.0.6 || Powered by | Apache Yetus 0.13.0-SNAPSHOT <https://yetus.apache.org> | This message was automatically generated.

5. Updated. I think the failed test is not related to this change.

## github\_pulls\_reviews:

1. It may be okay to just remove here instead of rethrowing exception because it is handled below too: <https://github.com/apache/hadoop/blob/f8769e0f4b917d9fda8ff7a9fddb4d755d246a1e/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/DataXceiver.java#L324>

2. Yes, we could just remove the try-catch block entirely and let the exception propagate upwards. However I wonder if it would make sense to catch it as we do now, but add some more information to the log for later debugging, eg the block causing the problem and the block index: `LOG.warn("Failed to get the checksum for block index {} and block {} in block group {}", idx, block, blockGroup, e); throw(e);`

**jira\_issues:**

**jira\_issues\_comments:**