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Hadoop Map/Reduce / MAPREDUCE-2692 Ensure AM Restart and Recovery-on-restart is complete / MAPREDUCE-3846

Restarted+Recovered AM hangs in some corner cases

Details

Type:
 Sub-task
 Status:
 CLOSED

Priority: Critical
 Resolution:
 Fixed

Affects Version/s:
 O.23.0
 Fix Version/s:
 O.23.1

Component/s: mrv2
Labels: None
Hadoop Flags: Reviewed

Release Note: Addressed MR AM hanging issues during AM restart and then the recovery.

Description

karams found this while testing AM restart/recovery feature. After the first generation AM crashes (manually killed by kill -9), the second generation AM starts, but hangs after a while.

Attachments

MAPREDUCE-3846-20120210.txt	33 kB	13/Feb/12 19:53
MAPREDUCE-3846-20120210.txt	33 kB	10/Feb/12 22:52
MAPREDUCE-3846-20120213.txt	35 kB	13/Feb/12 21:44

Issue Links

blocks

MAPREDUCE-3802 If an MR AM dies twice it looks like the process freezes



is related to

MAPREDUCE-3802 If an MR AM dies twice it looks like the process freezes



🔼 MAPREDUCE-3634 All daemons should crash instead of hanging around when their EventHandlers get exc... 🙈



Activity

▼ ○ Vinod Kumar Vavilapalli added a comment - 09/Feb/12 22:54

This is related to MAPREDUCE 3802 but different in that the error happens in the second generation itself (unlike third generation failure in MAPREDUCE 3802).

💌 🔘 Vinod Kumar Vavilapalli added a comment - 09/Feb/12 22:56

After some debugging, found that the exception trace is also the same as that in MAPREDUCE-3802:

1

```
org.apache.hadoop.yarn.state.StateMachineFactory$SingleInternalArc.doTransition(StateMachineFactory.java:357)
at org.apache.hadoop.yarn.state.StateMachineFactory.doTransition(StateMachineFactory.java:298)
at org.apache.hadoop.yarn.state.StateMachineFactory.access$300(StateMachineFactory.java:43)
at
org.apache.hadoop.yarn.state.StateMachineFactory$InternalStateMachine.doTransition(StateMachineFactory.java:443)
at org.apache.hadoop.mapreduce.v2.app.job.impl.TaskAttemptImpl.handle(TaskAttemptImpl.java:926)
at org.apache.hadoop.mapreduce.v2.app.job.impl.TaskAttemptImpl.handle(TaskAttemptImpl.java:135)
at org.apache.hadoop.mapreduce.v2.app.MRAppMaster$TaskAttemptEventDispatcher.handle(MRAppMaster.java:871)
at org.apache.hadoop.mapreduce.v2.app.MRAppMaster$TaskAttemptEventDispatcher.handle(MRAppMaster.java:863)
at org.apache.hadoop.yarn.event.AsyncDispatcher.dispatch(AsyncDispatcher.java:125)
```

Looking at the job history and logs, turns out the successful attempt for this task is attempt_1 instead of the usual attempt_0. This breaks the recovery and the AM hangs.

💌 🔘 Vinod Kumar Vavilapalli added a comment - 09/Feb/12 22:57

AM hang is related to MAPREDUCE-3634.

Sharad Agarwal added a comment - 10/Feb/12 10:00

should this be marked as duplicate of MAPREDUCE-3802? It is exactly the same behaviour for the AM hanging/failing in third generation.

▼ ○ Karam Singh added a comment - 10/Feb/12 14:09

I faced this issue, consistently when ever I kill AM after all maps are finshed and only reduces are running

Karam Singh added a comment - 10/Feb/12 15:31

It also appeared for me in case when I killed AM at 150 secs, when more than 13000 out of 16800 maps were ran Marking it critical

▼ O Vinod Kumar Vavilapalli added a comment - 10/Feb/12 22:51

Sharad, I think MAPREDUCE 3802 is different even though the exception trace is the same.

What is happening here is with the second AM generation itself. For the erring task, there are multiple attempts. One of the attempts doesn't get logged to JobHistory because the TaskAttempt fails before launch itself. Today we log TaskAttempts and set start times only after the real JVM launch (Do you know why? May be we can change this?). Because of this, JobHistory knows about, say attempts 0,1 and 3. When we replay the completed tasks, the attempt numbers take 0,1,2 and so we get the NPE.

▼ ○ Vinod Kumar Vavilapalli added a comment - 10/Feb/12 22:52

If we log all TaskAttempts (even before launch), we may perhaps avoid this, but I am not sure. So for now, I changed the attemptsNumbers generation during recovery to first use the numbers from previous generation and then jump after all those numbers are exhausted.

I also made sure that attempts are replayed correctly in the order of original start times, otherwise (as my test revealed), we may be replaying in wrong order with wrong times.

The test fails without the patch and passes with.

Sharad, can you please look at the patch and see if it makes sense? Thanks in advance!

- ▼ Hadoop QA added a comment 10/Feb/12 23:15
 - -1 overall. Here are the results of testing the latest attachment http://issues.apache.org/jira/secure/attachment/12514172/MAPREDUCE-3846-20120210.txt against trunk revision .
 - +1 @author. The patch does not contain any @author tags.
 - +1 tests included. The patch appears to include 3 new or modified tests.
 - +1 javadoc. The javadoc tool did not generate any warning messages.
 - -1 javac. The patch appears to cause tar ant target to fail.
 - +1 eclipse:eclipse. The patch built with eclipse:eclipse.
 - -1 findbugs. The patch appears to cause Findbugs (version 1.3.9) to fail.

- +1 release audit. The applied patch does not increase the total number of release audit warnings.
- -1 core tests. The patch failed these unit tests: org.apache.hadoop.yarn.util.TestLinuxResourceCalculatorPlugin
- +1 contrib tests. The patch passed contrib unit tests.

Test results: https://builds.apache.org/job/PreCommit-MAPREDUCE-Build/1841//testReport/Console output: https://builds.apache.org/job/PreCommit-MAPREDUCE-Build/1841//console

This message is automatically generated.

Sharad Agarwal added a comment - 13/Feb/12 13:17

looks good. we should add a testcase to recover in third generation.

✓ ○ Vinod Kumar Vavilapalli added a comment - 13/Feb/12 19:52

looks good. we should add a testcase to recover in third generation.

Thanks for the review Sharad. I will add the test case to MAPREDUCE 3802 and let this one get in.

MAPREDUCE 3852 is fixed now. Let me reattach the same patch and submit it to Jenkins.

Vinod Kumar Vavilapalli added a comment - 13/Feb/12 19:53

Same patch.

- O Hadoop QA added a comment 13/Feb/12 20:21
 - -1 overall. Here are the results of testing the latest attachment http://issues.apache.org/jira/secure/attachment/12514392/MAPREDUCE-3846-20120210.txt against trunk revision .
 - +1 @author. The patch does not contain any @author tags.
 - +1 tests included. The patch appears to include 3 new or modified tests.
 - +1 javadoc. The javadoc tool did not generate any warning messages.
 - -1 javac. The patch appears to cause tar ant target to fail.
 - +1 eclipse:eclipse. The patch built with eclipse:eclipse.
 - -1 findbugs. The patch appears to cause Findbugs (version 1.3.9) to fail.
 - +1 release audit. The applied patch does not increase the total number of release audit warnings.
 - -1 core tests. The patch failed the unit tests build
 - +1 contrib tests. The patch passed contrib unit tests.

Test results: https://builds.apache.org/job/PreCommit-MAPREDUCE-Build/1846//testReport/Console output: https://builds.apache.org/job/PreCommit-MAPREDUCE-Build/1846//console

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- Hadoop QA added a comment 13/Feb/12 22:44
 - +1 overall. Here are the results of testing the latest attachment http://issues.apache.org/jira/secure/attachment/12514400/MAPREDUCE-3846-20120213.txt against trunk revision .
 - +1 @author. The patch does not contain any @author tags.
 - +1 tests included. The patch appears to include 6 new or modified tests.
 - +1 javadoc. The javadoc tool did not generate any warning messages.
 - +1 javac. The applied patch does not increase the total number of javac compiler warnings.
 - +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 .
- +1 contrib tests. The patch passed contrib unit tests.

Test results: https://builds.apache.org/job/PreCommit-MAPREDUCE-Build/1847//testReport/Console output: https://builds.apache.org/job/PreCommit-MAPREDUCE-Build/1847//console

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▼ ○ Vinod Kumar Vavilapalli added a comment - 14/Feb/12 00:14

I just committed this to trunk, branch-0.23 and branch-0.23.1.

▼ ○ Hudson added a comment - 14/Feb/12 00:15

Integrated in Hadoop-Hdfs-trunk-Commit #1798 (See https://builds.apache.org/job/Hadoop-Hdfs-trunk-Commit/1798/)

MAPREDUCE 3846. Addressed MR AM hanging issues during AM restart and then the recovery. (vinodkv) (Revision 1243752)

Result = SUCCESS

vinodkv : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1243752 Files :

- /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/jobhistory/JobHistoryEventHandler.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/MRAppMaster.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/JobImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/MapTaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/ReduceTaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/Recovery.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/RecoveryService.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TestTaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-common/src/main/java/org/apache/hadoop/mapreduce/TypeConverter.java
- ▼ Hudson added a comment 14/Feb/12 00:20

Integrated in Hadoop-Common-trunk-Commit #1724 (See https://builds.apache.org/job/Hadoop-Common-trunk-Commit/1724/)

MAPREDUCE-3846. Addressed MR AM hanging issues during AM restart and then the recovery. (vinodky) (Revision 1243752)

Result = SUCCESS

vinodkv : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1243752 Files :

- /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/jobhistory/JobHistoryEventHandler.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/MRAppMaster.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/JobImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/MapTaskImpl.java

- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/ReduceTaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/Recovery.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/RecoveryService.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/test/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TestTaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-common/src/main/java/org/apache/hadoop/mapreduce/TypeConverter.java

► Under William Property Number > 14/Feb/12 00:25

Integrated in Hadoop-Hdfs-0.23-Commit #535 (See https://builds.apache.org/job/Hadoop-Hdfs-0.23-Commit/535/) MAPREDUCE-3846. Addressed MR AM hanging issues during AM restart and then the recovery. (vinodkv) svn merge --ignore-ancestry -c 1243752 ../../trunk/ (Revision 1243755)

Result = SUCCESS

vinodkv : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1243755
Files :

- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/jobhistory/JobHistoryEventHandler.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/MRAppMaster.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/JobImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/MapTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/ReduceTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/Recovery.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/RecoveryService.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TestTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-common/src/main/java/org/apache/hadoop/mapreduce/TypeConverter.java

✓ O Hudson added a comment - 14/Feb/12 00:27

Integrated in Hadoop-Mapreduce-trunk-Commit #1735 (See https://builds.apache.org/job/Hadoop-Mapreduce-trunk-Commit/1735/) MAPREDUCE 3846. Addressed MR AM hanging issues during AM restart and then the recovery. (vinodkv) (Revision 1243752)

Result = FAILURE

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1243752 Files:

- /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/jobhistory/JobHistoryEventHandler.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/MRAppMaster.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/JobImpl.java

- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/MapTaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/ReduceTaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/Recovery.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/RecoveryService.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TestTaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientcommon/src/main/java/org/apache/hadoop/mapreduce/TypeConverter.java

✓ O Hudson added a comment - 14/Feb/12 00:30

Integrated in Hadoop-Common-0.23-Commit #547 (See https://builds.apache.org/job/Hadoop-Common-0.23-Commit/547/)

MAPREDUCE-3846. Addressed MR AM hanging issues during AM restart and then the recovery. (vinodkv)

svn merge --ignore-ancestry -c 1243752 .././trunk/ (Revision 1243755)

Result = SUCCESS

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1243755

Files:

- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/jobhistory/JobHistoryEventHandler.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/MRAppMaster.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/JobImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/MapTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/ReduceTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/Recovery.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/RecoveryService.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TestTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-common/src/main/java/org/apache/hadoop/mapreduce/TypeConverter.java

O Hudson added a comment - 14/Feb/12 01:06

Integrated in Hadoop-Mapreduce-0.23-Commit #551 (See https://builds.apache.org/job/Hadoop-Mapreduce-0.23-Commit/551/)

MAPREDUCE 3846. Addressed MR AM hanging issues during AM restart and then the recovery. (vinodkv)

svn merge --ignore-ancestry -c 1243752 ../../trunk/ (Revision 1243755)

Result = ABORTED

vinodkv : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1243755
Files :

- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/jobhistory/JobHistoryEventHandler.java

- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/MRAppMaster.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/JobImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/MapTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/ReduceTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/Recovery.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/RecoveryService.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TestTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-common/src/main/java/org/apache/hadoop/mapreduce/TypeConverter.java

O Hudson added a comment - 14/Feb/12 12:34

Integrated in Hadoop-Hdfs-trunk #955 (See https://builds.apache.org/job/Hadoop-Hdfs-trunk/955/)

MAPREDUCE-3846. Addressed MR AM hanging issues during AM restart and then the recovery. (vinodkv) (Revision 1243752)

Result = FAILURE

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1243752 Files:

- /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt
 - /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/jobhistory/JobHistoryEventHandler.java
 - /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/MRAppMaster.java
 - /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/JobImpl.java
 - /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/MapTaskImpl.java
 - /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/ReduceTaskImpl.java
 - /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TaskImpl.java
 - /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/Recovery.java
 - /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/RecoveryService.java
 - /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java
 - /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TestTaskImpl.java
 - /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientcommon/src/main/java/org/apache/hadoop/mapreduce/TypeConverter.java

Hudson added a comment - 14/Feb/12 12:36

Integrated in Hadoop-Hdfs-0.23-Build #168 (See https://builds.apache.org/job/Hadoop-Hdfs-0.23-Build/168/) MAPREDUCE-3846. Addressed MR AM hanging issues during AM restart and then the recovery. (vinodkv) svn merge --ignore-ancestry -c 1243752 ../../trunk/ (Revision 1243755)

Result = FAILURE

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1243755 Files:

• /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt

- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/jobhistory/JobHistoryEventHandler.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/MRAppMaster.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/JobImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/MapTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/ReduceTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/Recovery.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/RecoveryService.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TestTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-common/src/main/java/org/apache/hadoop/mapreduce/TypeConverter.java

▼ ○ Hudson added a comment - 14/Feb/12 13:52

Integrated in Hadoop-Mapreduce-0.23-Build #196 (See https://builds.apache.org/job/Hadoop-Mapreduce-0.23-Build/196/) MAPREDUCE-3846. Addressed MR AM hanging issues during AM restart and then the recovery. (vinodkv) svn merge --ignore-ancestry -c 1243752 ../../trunk/ (Revision 1243755)

Result = FAILURE

vinodkv : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1243755
Files :

- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/jobhistory/JobHistoryEventHandler.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/MRAppMaster.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/JobImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/MapTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/ReduceTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/Recovery.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/RecoveryService.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TestTaskImpl.java
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-common/src/main/java/org/apache/hadoop/mapreduce/TypeConverter.java

▼ ○ Hudson added a comment - 14/Feb/12 13:57

Integrated in Hadoop-Mapreduce-trunk #990 (See https://builds.apache.org/job/Hadoop-Mapreduce-trunk/990/)

MAPREDUCE 3846. Addressed MR AM hanging issues during AM restart and then the recovery. (vinodkv) (Revision 1243752)

Result = SUCCESS

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1243752

Files:

- /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/jobhistory/JobHistoryEventHandler.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/MRAppMaster.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/JobImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/MapTaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/ReduceTaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/Recovery.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/main/java/org/apache/hadoop/mapreduce/v2/app/recover/RecoveryService.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/test/java/org/apache/hadoop/mapreduce/v2/app/job/impl/TestTaskImpl.java
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientcommon/src/main/java/org/apache/hadoop/mapreduce/TypeConverter.java

▼ ○ Hudson added a comment - 14/Feb/12 19:48

Integrated in Hadoop-Hdfs-0.23-Commit #537 (See https://builds.apache.org/job/Hadoop-Hdfs-0.23-Commit/537/)

MAPREDUCE-3802. Added test to validate that AM can crash multiple times and still can recover successfully after MAPREDUCE-3846. (vinodky)

svn merge --ignore-ancestry -c 1244178 ../../trunk/ (Revision 1244180)

Result = SUCCESS

 ${\color{blue} \textbf{vinodkv}: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN\&view=rev\&rev=1244180} \\$

Files:

- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java

▼ ○ Hudson added a comment - 14/Feb/12 19:51

Integrated in Hadoop-Common-0.23-Commit #549 (See https://builds.apache.org/job/Hadoop-Common-0.23-Commit/549/)

MAPREDUCE-3802. Added test to validate that AM can crash multiple times and still can recover successfully after MAPREDUCE-3846. (vinodky)

svn merge --ignore-ancestry -c 1244178 ../../trunk/ (Revision 1244180)

Result = SUCCESS

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1244180

Files:

- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java

▼ ○ Hudson added a comment - 14/Feb/12 19:59

Integrated in Hadoop-Hdfs-trunk-Commit #1800 (See https://builds.apache.org/job/Hadoop-Hdfs-trunk-Commit/1800/)

MAPREDUCE 3802. Added test to validate that AM can crash multiple times and still can recover successfully after MAPREDUCE 3846. (vinodkv) (Revision 1244178)

Result = SUCCESS

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1244178

Files:

- /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java

▼ ○ Hudson added a comment - 14/Feb/12 20:06

Integrated in Hadoop-Common-trunk-Commit #1726 (See https://builds.apache.org/job/Hadoop-Common-trunk-Commit/1726/)

MAPREDUCE 3802. Added test to validate that AM can crash multiple times and still can recover successfully after MAPREDUCE 3846. (vinodkv) (Revision 1244178)

Result = SUCCESS

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1244178

Files:

- /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java

Hudson added a comment - 14/Feb/12 20:29

Integrated in Hadoop-Mapreduce-0.23-Commit #553 (See https://builds.apache.org/job/Hadoop-Mapreduce-0.23-Commit/553/)

MAPREDUCE 3802. Added test to validate that AM can crash multiple times and still can recover successfully after MAPREDUCE 3846. (vinodky)

svn merge --ignore-ancestry -c 1244178 ../../trunk/ (Revision 1244180)

Result = ABORTED

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1244180

Files:

- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java

O Hudson added a comment - 14/Feb/12 20:30

Integrated in Hadoop-Mapreduce-trunk-Commit #1737 (See https://builds.apache.org/job/Hadoop-Mapreduce-trunk-Commit/1737/) MAPREDUCE-3802. Added test to validate that AM can crash multiple times and still can recover successfully after MAPREDUCE-3846. (vinodky) (Revision 1244178)

Result = ABORTED

vinodky: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1244178

Files:

- /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java

➤ O Hudson added a comment - 15/Feb/12 12:35

Integrated in Hadoop-Hdfs-trunk #956 (See https://builds.apache.org/job/Hadoop-Hdfs-trunk/956/)

MAPREDUCE-3802. Added test to validate that AM can crash multiple times and still can recover successfully after MAPREDUCE-3846. (vinodkv) (Revision 1244178)

Result = FAILURE

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1244178

Files:

- /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java

▼ ○ Hudson added a comment - 15/Feb/12 12:36

Integrated in Hadoop-Hdfs-0.23-Build #169 (See https://builds.apache.org/job/Hadoop-Hdfs-0.23-Build/169/)

MAPREDUCE-3802. Added test to validate that AM can crash multiple times and still can recover successfully after MAPREDUCE-3846. (vinodkv)

svn merge --ignore-ancestry -c 1244178 ../../trunk/ (Revision 1244180)

Result = FAILURE

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1244180

Files ·

- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java

Hudson added a comment - 15/Feb/12 13:19

Integrated in Hadoop-Mapreduce-0.23-Build #197 (See https://builds.apache.org/job/Hadoop-Mapreduce-0.23-Build/197/)

MAPREDUCE-3802. Added test to validate that AM can crash multiple times and still can recover successfully after MAPREDUCE-3846. (vinodky)

svn merge --ignore-ancestry -c 1244178 ../../trunk/ (Revision 1244180)

Result = FAILURE

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1244180

Files:

- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-app/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java

▼ ○ Hudson added a comment - 15/Feb/12 13:53

Integrated in Hadoop-Mapreduce-trunk #991 (See https://builds.apache.org/job/Hadoop-Mapreduce-trunk/991/)

MAPREDUCE 3802. Added test to validate that AM can crash multiple times and still can recover successfully after MAPREDUCE 3846. (vinodkv) (Revision 1244178)

Result = SUCCESS

vinodkv: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1244178

Files:

- /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt
- /hadoop/common/trunk/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-clientapp/src/test/java/org/apache/hadoop/mapreduce/v2/app/TestRecovery.java

People

Assignee:



Reporter:

🕠 Vinod Kumar Vavilapalli

Votes:

O Vote for this issue

Watchers:

3 Start watching this issue

Dates

Created:

09/Feb/12 22:51

Updated:

05/Mar/12 02:49

Resolved:

14/Feb/12 00:14