

**git\_comments:**

1. NOTE: closed and connected flags below are only changed when a lock on pendingCalls
2. **comment:** TODO: this should be handled by PayloadCarryingRpcController.  
**label:** code-design
3. **comment:** TODO: do not need to call AsyncCall.setFailed?  
**label:** code-design
4. we use address as cache key, so we should check here to prevent removing the wrong connection

**git\_commits:**

1. **summary:** HBASE-13011 TestLoadIncrementalHFiles is flakey when using AsyncRpcClient as client implementation  
**message:** HBASE-13011 TestLoadIncrementalHFiles is flakey when using AsyncRpcClient as client implementation  
Added comment to AsyncRpcChannel data members Signed-off-by: stack <stack@apache.org>

**github\_issues:****github\_issues\_comments:****github\_pulls:****github\_pulls\_comments:****github\_pulls\_reviews:****jira\_issues:**

1. **summary:** TestLoadIncrementalHFiles is flakey when using AsyncRpcClient as client implementation  
**description:** The test sometimes failed because of timeout. <https://builds.apache.org/job/PreCommit-HBASE-Build/12769/testReport/junit/org.apache.hadoop.hbase.mapreduce/TestLoadIncrementalHFiles/testSimpleLoad/> Dig into it, I found this {noformat} 2015-02-11 02:01:47,304 INFO [LoadIncrementalHFiles-1] mapreduce.LoadIncrementalHFiles(563): Trying to load hfile=hdfs://localhost:59736/user/jenkins/test-data/d964a632-8db5-4f3a-966f-89746947294b/testSimpleLoad/myfam/hfile\_1 first=ddd last=ooo 2015-02-11 02:01:47,308 INFO [LoadIncrementalHFiles-0] mapreduce.LoadIncrementalHFiles(563): Trying to load hfile=hdfs://localhost:59736/user/jenkins/test-data/d964a632-8db5-4f3a-966f-89746947294b/testSimpleLoad/myfam/hfile\_0 first=aaaa last=cccc 2015-02-11 02:01:47,317 DEBUG [LoadIncrementalHFiles-2] mapreduce.LoadIncrementalHFiles\$3(664): Going to connect to server region=bulkNS:mytable\_testSimpleLoad,,1423620104753.fdcdb21e43683c753bae40f1d890daa6., hostname=asf910.gq1.ygridcore.net,41003,1423620099272, seqNum=2 for row with hfile group [{[B@7173d25a,hdfs://localhost:59736/user/jenkins/test-data/d964a632-8db5-4f3a-966f-89746947294b/testSimpleLoad/myfam/hfile\_0]}] 2015-02-11 02:01:47,320 DEBUG [LoadIncrementalHFiles-3] mapreduce.LoadIncrementalHFiles\$3(664): Going to connect to server region=bulkNS:mytable\_testSimpleLoad,ddd,1423620104753.ec757ff718ce8ab99f4f6bcca389d67f., hostname=asf910.gq1.ygridcore.net,41003,1423620099272, seqNum=2 for row ddd with hfile group [{[B@7173d25a,hdfs://localhost:59736/user/jenkins/test-data/d964a632-8db5-4f3a-966f-89746947294b/testSimpleLoad/myfam/hfile\_1]}] {noformat} There are two files to commit, but after this {noformat} 2015-02-11 02:01:47,327 INFO [B.defaultRpcServer.handler=3,queue=0,port=41003] regionserver.HStore(690): Validating hfile at hdfs://localhost:59736/user/jenkins/test-data/d964a632-8db5-4f3a-966f-89746947294b/testSimpleLoad/myfam/hfile\_0 for inclusion in store myfam region bulkNS:mytable\_testSimpleLoad,,1423620104753.fdcdb21e43683c753bae40f1d890daa6. 2015-02-11 02:01:47,330 INFO [B.defaultRpcServer.handler=1,queue=0,port=41003] regionserver.HStore(690): Validating hfile at hdfs://localhost:59736/user/jenkins/test-data/d964a632-8db5-4f3a-966f-89746947294b/testSimpleLoad/myfam/hfile\_1 for inclusion in store myfam region bulkNS:mytable\_testSimpleLoad,ddd,1423620104753.ec757ff718ce8ab99f4f6bcca389d67f. 2015-02-11 02:01:47,330 INFO [B.defaultRpcServer.handler=4,queue=0,port=41003] regionserver.HStore(690): Validating hfile at hdfs://localhost:59736/user/jenkins/test-data/d964a632-8db5-4f3a-966f-89746947294b/testSimpleLoad/myfam/hfile\_1 for inclusion in store myfam region bulkNS:mytable\_testSimpleLoad,ddd,1423620104753.ec757ff718ce8ab99f4f6bcca389d67f. {noformat} We can see that hfile\_1 have been committed twice and the second call will fail and cause the test timeout. I'm not sure if it is a issue of AsyncRpcClient. But if I use RpcClientImpl, the test always passes.

**jira\_issues\_comments:**

1. Thanks for digging in [~Apache9] You think this one failing on trunk only where asyncrpcclient is enabled? Looking at branch-1, I don't see it failing (looked at about last ten builds). Let me commit the latest TestChoreService fixup. Then the TestLoadIncrementalHFiles signal might be cleaner.

2. [~stack] Yes, only see it failing on master. And I tried locally, it is very easy to hang. I switched to RpcClientImpl and run it several times, all passed.
3. Add some log. Now I can confirm that, when timeout happen, ProtobufUtil.bulkLoadHFile is called twice, but RpcServer receives three request, hfile\_1 is received twice.
4. **body:** Almost there. I think I found a data race. In AsyncRpcChannel.startHBaseConnection, we will call writeRequest when connect operation complete to write out all pendingCalls. But at the same time, AsyncRpcChannel.callMethod will put call to pendingCalls, and then call writeRequest. So there could a situation, one call is written out twice. Any suggestion on how to fix it? [~stack] , [~jurmous] IMHO, the locking schema is not clear in AsyncRpcClient and AsyncRpcChannel. Maybe we need to revisit it and use some standard locking method? Thanks~  
**label:** code-design
5. Ah yes, I can see the problem you are describing looking at the code. Thanks for chasing it down! I would suggest a simple boolean lock on the Call itself when it starts to be written. Since a call can be written only once and if the write fails the whole channel is closed it seems the most straightforward route. Other suggestions are welcome!
6. **body:** I would suggest to use a lock to make 'check connection state' and 'put call to pendingCalls' atomic. This is easy to implement and easy to understand, and can also solve the problem of HBASE-12951.  
**label:** code-design
7. Yes true, I am open to review any patches implementing your suggestion!
8. OK, I will try to prepare a patch these days.
9. Thanks for digging in [~Apache9] (and [~jurmous] for input)
10. Use a lock to get correctness. This could a baseline. If we found the lock is bottleneck, then we can focus on optimize it.
11. **body:** Oh, there is a patch already. IMHO, the patch does not work...Certainly this patch could reduce the probability of writing one call twice, but it can not prevent all... Let's see t1 check call.writeLock, it is false t2 check call.writeLock, it is still false t1 set call.writeLock to true and writeRequest t2 set call.writeLock to true and writeRequest OK, call is written twice... Of course there are synchronization methods that could work without a lock, but these methods are all complicated I'd say...  
**label:** code-design
12. **body:** {color:red}-1 overall{color}. Here are the results of testing the latest attachment [http://issues.apache.org/jira/secure/attachment/12698431/HBASE-13011\\_1.patch](http://issues.apache.org/jira/secure/attachment/12698431/HBASE-13011_1.patch) against master branch at commit b7f6a45803d6b56a2ff56ebcac6a78aee100b409. ATTACHMENT ID: 12698431 {color:green}+1 @author{color}. The patch does not contain any @author tags. {color:red}-1 tests included{color}. The patch doesn't appear to include any new or modified tests. Please justify why no new tests are needed for this patch. Also please list what manual steps were performed to verify this patch. {color:green}+1 hadoop versions{color}. The patch compiles with all supported hadoop versions (2.4.1 2.5.2 2.6.0) {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:red}-1 javadoc{color}. The javadoc tool appears to have generated 1 warning messages. {color:green}+1 checkstyle{color}. The applied patch does not increase the total number of checkstyle errors {color:green}+1 findbugs{color}. The patch does not introduce any new Findbugs (version 2.0.3) warnings. {color:green}+1 release audit{color}. The applied patch does not increase the total number of release audit warnings. {color:green}+1 lineLengths{color}. The patch does not introduce lines longer than 100 {color:green}+1 site{color}. The mvn site goal succeeds with this patch. {color:red}-1 core tests{color}. The patch failed these unit tests: org.apache.hadoop.hbase.master.TestDistributedLogSplitting Test results: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/testReport/> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/newPatchFindbugsWarningshbase-annotations.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/newPatchFindbugsWarningshbase-hadoop2-compatible.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/newPatchFindbugsWarningshbase-common.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/newPatchFindbugsWarningshbase-hadoop-compatible.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/newPatchFindbugsWarningshbase-protocol.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/newPatchFindbugsWarningshbase-prefix-tree.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/newPatchFindbugsWarningshbase-client.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/newPatchFindbugsWarningshbase-examples.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/newPatchFindbugsWarningshbase-thrift.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/newPatchFindbugsWarningshbase-rest.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/newPatchFindbugsWarningshbase-server.html> Checkstyle Errors: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/checkstyle-aggregate.html> Javadoc warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/artifact/patchprocess/patchJavadocWarnings.txt> Console output: <https://builds.apache.org/job/PreCommit-HBASE-Build/12799/console> This message is automatically generated.  
**label:** code-design
13. Fix possible NPE
14. **body:** {color:red}-1 overall{color}. Here are the results of testing the latest attachment [http://issues.apache.org/jira/secure/attachment/12698608/HBASE-13011\\_2.patch](http://issues.apache.org/jira/secure/attachment/12698608/HBASE-13011_2.patch) against master branch at commit 7561ae6d1257b51c0bb1ef46e52d8ede2c7c926f. ATTACHMENT ID: 12698608 {color:green}+1 @author{color}. The

patch does not contain any @author tags. {color:red}-1 tests included{color}. The patch doesn't appear to include any new or modified tests. Please justify why no new tests are needed for this patch. Also please list what manual steps were performed to verify this patch. {color:green}+1 hadoop versions{color}. The patch compiles with all supported hadoop versions (2.4.1 2.5.2 2.6.0) {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:red}-1 javadoc{color}. The javadoc tool appears to have generated 1 warning messages. {color:green}+1 checkstyle{color}. The applied patch does not increase the total number of checkstyle errors {color:green}+1 findbugs{color}. The patch does not introduce any new Findbugs (version 2.0.3) warnings. {color:green}+1 release audit{color}. The applied patch does not increase the total number of release audit warnings. {color:green}+1 lineLengths{color}. The patch does not introduce lines longer than 100 {color:green}+1 site{color}. The mvn site goal succeeds with this patch. {color:red}-1 core tests{color}. The patch failed these unit tests: Test results: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/testReport/> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/newPatchFindbugsWarningshbase-annotations.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/newPatchFindbugsWarningshbase-hadoop2-compat.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/newPatchFindbugsWarningshbase-common.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/newPatchFindbugsWarningshbase-hadoop-compat.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/newPatchFindbugsWarningshbase-protocol.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/newPatchFindbugsWarningshbase-prefix-tree.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/newPatchFindbugsWarningshbase-client.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/newPatchFindbugsWarningshbase-examples.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/newPatchFindbugsWarningshbase-thrift.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/newPatchFindbugsWarningshbase-rest.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/newPatchFindbugsWarningshbase-server.html> Checkstyle Errors: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/checkstyle-aggregate.html> Javadoc warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/patchprocess/patchJavadocWarnings.txt> Console output: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/console> This message is automatically generated.

**label:** code-design

15. TestHMasterRPCException is flakey. I think the problem is the test itself. The test try to connect to HMaster several times until it getting ServerNotRunningYetException. But we do not set any guard to prevent HMaster transferring its state to running, so it could happen that when we successfully connect to HMaster, it is already under the running state(especially on heavy loaded machines)... And I can not view the log file of other failed tests, maybe something wrong with jenkins? I ran these tests locally, they all passed.
16. [~Apache9] Reviewed the code and looks great to me. The logs are findable within the artifacts page on the overview page of the jenkins build. For example for the failed TestTableSnapshotScanner: <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/hbase-server/target/surefire-reports/org.apache.hadoop.hbase.client.TestTableSnapshotScanner-output.txt> The patch was indeed not sufficient for all cases. I am glad you did the work that needed to be done! I had the same problem with the tests that failed that I couldn't reproduce them locally. Same with TestLoadIncrementalHFiles so I am happy you found the problem here. :)
17. [~jurmou] Thanks for the artifacts link. I found this <https://builds.apache.org/job/PreCommit-HBASE-Build/12815/artifact/hbase-server/target/surefire-reports/org.apache.hadoop.hbase.client.TestTableSnapshotScanner.txt> Seems the test is passed. So the only problem is TestHMasterRPCException . I can file a new jira to address it.
18. Address issues on rb
19. **body:** {color:red}-1 overall{color}. Here are the results of testing the latest attachment [http://issues.apache.org/jira/secure/attachment/12698860/HBASE-13011\\_3.patch](http://issues.apache.org/jira/secure/attachment/12698860/HBASE-13011_3.patch) against master branch at commit c96df5e240baed77f6349effe0777ebef57. ATTACHMENT ID: 12698860 {color:green}+1 @author{color}. The patch does not contain any @author tags. {color:red}-1 tests included{color}. The patch doesn't appear to include any new or modified tests. Please justify why no new tests are needed for this patch. Also please list what manual steps were performed to verify this patch. {color:green}+1 hadoop versions{color}. The patch compiles with all supported hadoop versions (2.4.1 2.5.2 2.6.0) {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javadoc{color}. The javadoc tool did not generate any warning messages. {color:green}+1 checkstyle{color}. The applied patch does not increase the total number of checkstyle errors {color:green}+1 findbugs{color}. The patch does not introduce any new Findbugs (version 2.0.3) warnings. {color:green}+1 release audit{color}. The applied patch does not increase the total number of release audit warnings. {color:green}+1 lineLengths{color}. The patch does not introduce lines longer than 100 {color:green}+1 site{color}. The mvn site goal succeeds with this patch. {color:red}-1 core tests{color}. The patch failed these unit tests: {color:red}-1 core zombie tests{color}. There are 2 zombie test(s): at org.apache.hadoop.hbase.master.balancer.TestStochasticLoadBalancer.testSkewCost(TestStochasticLoadBalancer.java:234) Test results: <https://builds.apache.org/job/PreCommit-HBASE-Build/12846/testReport/> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12846/artifact/patchprocess/newPatchFindbugsWarningshbase-hadoop2-compat.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12846/artifact/patchprocess/newPatchFindbugsWarningshbase-hadoop2-compat.html>

Build/12846//artifact/patchprocess/newPatchFindbugsWarningshbase-prefix-tree.html Findbugs warnings:  
<https://builds.apache.org/job/PreCommit-HBASE-Build/12846//artifact/patchprocess/newPatchFindbugsWarningshbase-common.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12846//artifact/patchprocess/newPatchFindbugsWarningshbase-rest.html> Findbugs warnings:  
<https://builds.apache.org/job/PreCommit-HBASE-Build/12846//artifact/patchprocess/newPatchFindbugsWarningshbase-thrift.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12846//artifact/patchprocess/newPatchFindbugsWarningshbase-annotations.html> Findbugs warnings:  
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<https://builds.apache.org/job/PreCommit-HBASE-Build/12846//artifact/patchprocess/newPatchFindbugsWarningshbase-hadoop-compat.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12846//artifact/patchprocess/newPatchFindbugsWarningshbase-server.html> Findbugs warnings:  
<https://builds.apache.org/job/PreCommit-HBASE-Build/12846//artifact/patchprocess/newPatchFindbugsWarningshbase-protocol.html> Checkstyle Errors: <https://builds.apache.org/job/PreCommit-HBASE-Build/12846//artifact/patchprocess/checkstyle-aggregate.html> Console output: <https://builds.apache.org/job/PreCommit-HBASE-Build/12846//console> This message is automatically generated.

**label:** code-design

20. [~stack] I uploaded the patch to review board, do you have any suggestion? Thanks

21. Retry

22. Nice work [~Apache9] (and thanks for input [~jurmous]) A few minor questions over on RB.

23. **body:** {color:red}-1 overall{color}. Here are the results of testing the latest attachment [http://issues.apache.org/jira/secure/attachment/12699017/HBASE-13011\\_3.patch](http://issues.apache.org/jira/secure/attachment/12699017/HBASE-13011_3.patch) against master branch at commit 9b2e4ed064e5a832af12616167ce9dee794cdb33. ATTACHMENT ID: 12699017 {color:green}+1 @author{color}. The patch does not contain any @author tags. {color:red}-1 tests included{color}. The patch doesn't appear to include any new or modified tests. Please justify why no new tests are needed for this patch. Also please list what manual steps were performed to verify this patch. {color:green}+1 hadoop versions{color}. The patch compiles with all supported hadoop versions (2.4.1 2.5.2 2.6.0) {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javadoc{color}. The javadoc tool did not generate any warning messages. {color:green}+1 checkstyle{color}. The applied patch does not increase the total number of checkstyle errors {color:green}+1 findbugs{color}. The patch does not introduce any new Findbugs (version 2.0.3) warnings. {color:green}+1 release audit{color}. The applied patch does not increase the total number of release audit warnings. {color:green}+1 lineLengths{color}. The patch does not introduce lines longer than 100 {color:green}+1 site{color}. The mvn site goal succeeds with this patch. {color:red}-1 core tests{color}. The patch failed these unit tests:  
org.apache.hadoop.hbase.master.TestDistributedLogSplitting {color:red}-1 core zombie tests{color}. There are 1 zombie test(s): Test results: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//testReport/> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/newPatchFindbugsWarningshbase-hadoop-compat.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/newPatchFindbugsWarningshbase-prefix-tree.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/newPatchFindbugsWarningshbase-examples.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/newPatchFindbugsWarningshbase-server.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/newPatchFindbugsWarningshbase-common.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/newPatchFindbugsWarningshbase-rest.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/newPatchFindbugsWarningshbase-protocol.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/newPatchFindbugsWarningshbase-client.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/newPatchFindbugsWarningshbase-thrift.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/newPatchFindbugsWarningshbase-hadoop2-compat.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/newPatchFindbugsWarningshbase-annotations.html> Checkstyle Errors: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//artifact/patchprocess/checkstyle-aggregate.html> Console output: <https://builds.apache.org/job/PreCommit-HBASE-Build/12857//console> This message is automatically generated.

**label:** code-design

24. Pushed to branch-1+. Thanks for the nice work [~Apache9] (and the reviews [~jurmous])

25. FAILURE: Integrated in HBase-TRUNK #6136 (See [<https://builds.apache.org/job/HBase-TRUNK/6136/>]) HBASE-13011 TestLoadIncrementalHFiles is flakey when using AsyncRpcClient as client implementation (stack: rev e99091e97c374a026ba690cf9d6a4592f3c3fbbd) \* hbase-client/src/main/java/org/apache/hadoop/hbase/ipc/AsyncRpcChannel.java \* hbase-client/src/main/java/org/apache/hadoop/hbase/ipc/AsyncRpcClient.java \* hbase-client/src/main/java/org/apache/hadoop/hbase/ipc/AsyncCall.java \* hbase-client/src/main/java/org/apache/hadoop/hbase/ipc/AsyncServerResponseHandler.java

26. FAILURE: Integrated in HBase-1.1 #185 (See [<https://builds.apache.org/job/HBase-1.1/185/>]) HBASE-13011 TestLoadIncrementalHFiles is flakey when using AsyncRpcClient as client implementation (stack: rev

ae920d55591485265469e54bb61fc7cf6678c7ce) \* hbase-  
client/src/main/java/org/apache/hadoop/hbase/ipc/AsyncServerResponseHandler.java \* hbase-  
client/src/main/java/org/apache/hadoop/hbase/ipc/AsyncRpcClient.java \* hbase-  
client/src/main/java/org/apache/hadoop/hbase/ipc/AsyncCall.java \* hbase-  
client/src/main/java/org/apache/hadoop/hbase/ipc/AsyncRpcChannel.java  
27. Closing issues released in 1.1.0.