[MAPREDUCE-3714](https://www.google.com/url?q=https://issues.apache.org/jira/browse/MAPREDUCE-3714&sa=D&source=editors&ust=1751358333460269&usg=AOvVaw0cXUkBCzC1i4LLOCeATG--)

Reduce hangs in a corner case

**(1)  Log information**

**(1.1) Roles in this case**

reducer: client-side                        AM: server-side

(1.2) Symptoms

In the description “found this long time back and we(Sid/I) ran into this again.”

The log and hanging reducers’ thread dump below are totally the same as those in mr-3226.

exception in reducer log:

2011-10-18 10:34:41,006 INFO org.apache.hadoop.mapred.Task: Communication exception: java.io.IOException: Failed on local exception: java.nio.channels.ClosedByInterruptException; Host Details : local host is: hostname.com/$ip\_addr"; destination host is: ""hostname.com":12345;

            at org.apache.hadoop.net.NetUtils.wrapException(NetUtils.java:601)

            at org.apache.hadoop.ipc.Client.call(Client.java:1089)

            at org.apache.hadoop.ipc.WritableRpcEngine$Invoker.invoke(WritableRpcEngine.java:193)

            at $Proxy6.statusUpdate(Unknown Source)

            at org.apache.hadoop.mapred.Task$TaskReporter.run(Task.java:671)

            at java.lang.Thread.run(Thread.java:619)

Caused by: java.nio.channels.ClosedByInterruptException

            at java.nio.channels.spi.AbstractInterruptibleChannel.end(AbstractInterruptibleChannel.java:184)

            at sun.nio.ch.SocketChannelImpl.write(SocketChannelImpl.java:341)

        at org.apache.hadoop.net.SocketOutputStream$Writer.performIO(SocketOutputStream.java:60)

            at org.apache.hadoop.net.SocketIOWithTimeout.doIO(SocketIOWithTimeout.java:142)

            at org.apache.hadoop.net.SocketOutputStream.write(SocketOutputStream.java:151)

            at org.apache.hadoop.net.SocketOutputStream.write(SocketOutputStream.java:112)

            at org.apache.hadoop.security.SaslOutputStream.write(SaslOutputStream.java:168)

            at java.io.BufferedOutputStream.flushBuffer(BufferedOutputStream.java:65)

            at java.io.BufferedOutputStream.flush(BufferedOutputStream.java:123)

            at java.io.DataOutputStream.**flush**(DataOutputStream.java:106)

            at org.apache.hadoop.ipc.Client$Connection.**sendParam**(Client.java:796)

            at org.apache.hadoop.ipc.Client.call(Client.java:1066)

            at org.apache.hadoop.ipc.WritableRpcEngine$Invoker.invoke(WritableRpcEngine.java:193)

            at $Proxy6.getMapCompletionEvents(Unknown Source)

            at org.apache.hadoop.mapreduce.task.reduce.EventFetcher.**getMapCompletionEvents**(EventFetcher.java:99)

            at org.apache.hadoop.mapreduce.task.reduce.EventFetcher.run(EventFetcher.java:65)

And it has the following thread dump:

"EventFetcher for fetching Map Completion Events" daemon prio=10 tid=0xa325fc00 nid=0x1ca4 waiting on condition [0xa315c000]

   java.lang.Thread.State: TIMED\_WAITING (sleeping)

            at java.lang.Thread.sleep(Native Method)

            at org.apache.hadoop.mapreduce.task.reduce.EventFetcher.run(EventFetcher.java:71)

"main" prio=10 tid=0x080ed400 nid=0x1c71 in Object.wait() [0xf73a2000]

   java.lang.Thread.State: WAITING (on object monitor)

            at java.lang.Object.wait(Native Method)

            - waiting on <0xa94b23d8> (a org.apache.hadoop.mapreduce.task.reduce.EventFetcher)

            at java.lang.**Thread.join**(Thread.java:1143)

            - locked <0xa94b23d8> (a org.apache.hadoop.mapreduce.task.reduce.EventFetcher)

            at java.lang.**Thread.join**(Thread.java:1196)

            at org.apache.hadoop.mapreduce.task.reduce.**Shuffle.run**(Shuffle.java:135)

            at org.apache.hadoop.mapred.ReduceTask.run(ReduceTask.java:367)

            at org.apache.hadoop.mapred.YarnChild$2.run(YarnChild.java:147)

            at java.security.AccessController.doPrivileged(Native Method)

            at javax.security.auth.Subject.doAs(Subject.java:396)

            at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1135)

            at org.apache.hadoop.mapred.YarnChild.main(YarnChild.java:142)