

**git\_comments:**

1. \* \* Insert some bogus rows in meta. Master should clean them up. \* @throws IOException
2. **comment:** \* \* Tests master cleanup of rows in meta table where there is no HRegionInfo  
**label:** code-design
3. ignore
4. \* \* Copyright 2008 The Apache Software Foundation \* \* Licensed to the Apache Software Foundation (ASF) under one \* or more contributor license agreements. See the NOTICE file \* distributed with this work for additional information \* regarding copyright ownership. The ASF licenses this file \* to you under the Apache License, Version 2.0 (the \* "License"); you may not use this file except in compliance \* with the License. You may obtain a copy of the License at \* \* <http://www.apache.org/licenses/LICENSE-2.0> \* \* Unless required by applicable law or agreed to in writing, software \* distributed under the License is distributed on an "AS IS" BASIS, \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. \* See the License for the specific language governing permissions and \* limitations under the License.
5. **comment:** Take a look at split parents to see if any we can clean up.  
**label:** code-design
6. \* @return true if initial scan completed successfully
7. Scan is finished.
8. **comment:** First clean up any meta region rows which had null HRegionInfos  
**label:** code-design
9. \* \* Wait until root region is available
10. \* When we find rows in a meta region that has an empty HRegionInfo, we \* clean them up here. \* \* @param server connection to server serving meta region \* @param metaRegionName name of the meta region we scanned \* @param emptyRows the row keys that had empty HRegionInfos
11. Scan complete. Remove any rows which had empty HRegionInfos
12. \* \* @param address server address \* @return HServerInfo for the given server address
13. \* @return the number of active servers
14. \* \* @param serverName \* @return true if server is dead
15. \* @return the average load across all region servers
16. \* \* @param master
17. \* \* @param serverName
18. \* \* Wakes up threads waiting on serversToServerInfo
19. \* \* A region has split. \* \* @param serverName \* @param serverInfo \* @param region \* @param splitA \* @param splitB \* @param returnMsgs
20. \* \* @param serverInfo \* @param msgs \* @return messages from master to region server indicating what region \* server should do. \* \* @throws IOException
21. \* \* Let the server manager know a new regionserver has come online \* \* @param serverInfo
22. **comment:** Get rid of any rows that have a null HRegionInfo  
**label:** code-design

**git\_commits:**

1. **summary:** HBASE-27 hregioninfo cell empty in meta table  
**message:** HBASE-27 hregioninfo cell empty in meta table Summary of changes: HMaster: - When a row has an empty HRegionInfo (info:regioninfo), log it with the row name and and the other keys still in the row. - Log the number of rows with empty HRegionInfo - Delete the rows - Make RowMap inner class static, change methods to have package scope to avoid synthetic accessors. - Provide row name to getHRegionInfo so it can issue better log messages - add method deleteEmptyMetaRows to remove rows with empty HRegionInfo HRegion - change removeRegionFromMETA to use deleteAll rather than using a BatchUpdate containing deletes for each cell. TestEmptyMetaInfo - new test case git-svn-id: <https://svn.apache.org/repos/asf/hadoop/hbase/trunk@636589> 13f79535-47bb-0310-9956-ffa450edef68

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

github\_pulls\_comments:

github\_pulls\_reviews:

jira\_issues:

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**label:** code-design

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**description:** When we notice one of these, instead of reporting on it over and over -- see below -- lets just axe the whole row. Its never going to get better on its own. We should also figure how these horked rows get manufactured. Below is about split cells but also instances where servercode and servername are all thats left in a row. {code} 2008-01-24 02:01:02,761 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,761 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,762 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,762 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,762 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,763 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,763 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,763 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,764 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,764 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,764 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,765 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,765 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,765 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,766 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,766 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,766 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,766 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,767 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,767 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,767 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,768 WARN



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**label:** code-design

#### 9. **summary:** [hbase] hregioninfo cell empty in meta table

**description:** When we notice one of these, instead of reporting on it over and over -- see below -- lets just axe the whole row. Its never going to get better on its own. We should also figure how these horked rows get manufactured. Below is about split cells but also instances where servercode and servername are all thats left in a row. {code} 2008-01-24 02:01:02,761 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,761 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,762 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,762 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,762 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,763 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,763 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,763 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,764 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,764 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,764 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,765 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,765 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,765 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,766 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,766 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,766 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,767 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,767 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,767 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,768 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,768 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,768 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,769 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,769 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,769 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,770 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,770 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,771 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,771 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,771 WARN org.apache.hadoop.hbase.HMaster:



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**label:** code-design

10. **summary:** [hbase] hregioninfo cell empty in meta table

**description:** When we notice one of these, instead of reporting on it over and over -- see below -- lets just axe the whole row. Its never going to get better on its own. We should also figure how these horked rows get manufactured. Below is about split cells but also instances where servercode and servername are all thats left in a row. {code} 2008-01-24 02:01:02,761 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,761 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,762 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,762 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,762 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,763 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,763 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,763 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,764 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,764 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,764 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,765 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,765 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,765 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,766 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,766 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,766 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,767 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,767 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,767 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,768 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,768 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,768 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,769 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,769 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,770 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,770 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] 2008-01-24 02:01:02,771 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,771 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitB] 2008-01-24 02:01:02,771 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA, info:splitB] 2008-01-24 02:01:02,772 WARN org.apache.hadoop.hbase.HMaster: info:regioninfo is empty; has keys: [info:splitA] {code}

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#### jira\_issues\_comments:

1. **body:** It appears that we are not cleaning out all the possible cells when a region is deleted.  
**label:** code-design
2. Easy enough to switch to deleteAll(row).
3. Let's get this done in 0.17.
4. Not that important. Does this even happen anymore in trunk?
5. Patch for 0.1.0
6. **body:** Why is the internal class RowMap made public? This patch is a band-aid on a real issue we have yet to find -- improper clean up of rows. Maybe it can help us figure where the real prob. is by outputting more info about the row its deleting? E.g., in deleteEmptyMetaRows, do you think it should enumerate all the cells that are remaining? Might give us clue as to where the meta row removes is working improperly. Otherwise, patch looks good to me.  
**label:** code-design
7. **body:** Is there any chance that we are seeing the row halfway through an update? If so, then deleting the entire thing when one of the cells is empty would really break things. The original suggestion was to use deleteAll in situations where we wanted to delete a row, and assume that the problem was some rows were incompletely cleaned up because we weren't doing deleteAll before. In that regard, I think the change to HRegion is correct, but perhaps the cleanup in HMaster is premature. Should we commit a patch with just the HRegion deleteAll change, and see if this problem manifests itself any further?  
**label:** code-design
8. **body:** stack - 10/Mar/08 02:45 PM > Why is the internal class RowMap made public? The class is private static meaning that it is only visible to HMaster. The problem with the methods being private is that they had to be accessed through synthetic accessors. Could use package private I suppose, but if the class itself is not visible outside of HMaster, is it really a problem? I'll change to package visibility if you think so. > This patch is a band-aid on a real issue we have yet to find - improper clean up of rows. > Maybe it can help us figure where the real prob. is by outputting more info about the row its deleting? > E.g., in deleteEmptyMetaRows, do you think it should enumerate all the cells that are remaining? > Might give us clue as to where the meta row removes is working improperly. The patch is a band-aid intended to be as minimal as possible while still making 0.1 work well enough to release. Since all the calls to deleteEmptyMetaRows are made after a scan of a meta region (because you don't want to update while you're scanning), I could make the callers output more information since they know the context better than the low level method. > Bryan Duxbury - 10/Mar/08 02:53 PM > Is there any chance that we are seeing the row halfway through an update? If so, then deleting the entire > thing when one of the cells is empty would really break things. HRegionInfo should never be null so long as any other cell exists. It is written when a region is created either via create table or split, and should not be deleted until both splitA and splitB are empty after a split. > The original suggestion was to use deleteAll in situations where we wanted to delete a row, and > assume that the problem was some rows were incompletely cleaned up because we weren't doing > deleteAll before. In that regard, I think the change to HRegion is correct, but perhaps the cleanup in > HMaster is premature. Should we commit a patch with just the HRegion deleteAll change, and see > if this problem manifests itself any further? I think it will continue to happen even with deleteAll and since it really breaks things to have these kind of rows around, nuking them can't really make matters worse. Adding the context around a delete should give us more insight into what we are doing when we run over these land mines.  
**label:** code-design
9. **body:** Summary of changes: HMaster: - When a row has an empty HRegionInfo (info:regioninfo), log it with the row name and and the other keys still in the row. - Log the number of rows with empty HRegionInfo - Delete the rows - Make RowMap inner class static, change methods to have package scope to avoid synthetic accessors. - Provide row name to getHRegionInfo so it can issue better log messages - add method deleteEmptyMetaRows to remove rows with empty HRegionInfo HRegion - change removeRegionFromMETA to use deleteAll rather than using a BatchUpdate containing deletes for each cell. TestEmptyMetaInfo - new test case Sample of new log messages: {code} [junit] 2008-03-11

```

11:00:34,078 INFO [HMaster.metaScanner] hbase.HMaster$BaseScanner(211): HMaster.metaScanner
scanning meta region {regionname: .META.,,1, startKey: <>, server: 10.69.80.2:3204} [junit] 2008-03-11
11:00:34,093 WARN [HMaster.metaScanner] hbase.HMaster(3231): info:regioninfo is empty for row:
tablename,1,1205258426000; has keys: [info:server] [junit] 2008-03-11 11:00:34,093 WARN
[HMaster.metaScanner] hbase.HMaster(3231): info:regioninfo is empty for row:
tablename,1205258426000; has keys: [info:server] [junit] 2008-03-11 11:00:34,093 WARN
[HMaster.metaScanner] hbase.HMaster(3231): info:regioninfo is empty for row:
tablename,2,1205258426000; has keys: [info:server] [junit] 2008-03-11 11:00:34,093 WARN
[HMaster.metaScanner] hbase.HMaster(3231): info:regioninfo is empty for row:
tablename,3,1205258426000; has keys: [info:server] [junit] 2008-03-11 11:00:34,093 WARN
[HMaster.metaScanner] hbase.HMaster(3231): info:regioninfo is empty for row:
tablename,4,1205258426000; has keys: [info:server] [junit] 2008-03-11 11:00:34,093 WARN
[HMaster.metaScanner] hbase.HMaster$BaseScanner(288): Found 5 rows with empty HRegionInfo while
scanning meta region .META.,,1 [junit] 2008-03-11 11:00:34,093 WARN [HMaster.metaScanner]
hbase.HMaster(3252): Removed region: tablename,1,1205258426000 from meta region: .META.,,1
because HRegionInfo was empty [junit] 2008-03-11 11:00:34,093 WARN [HMaster.metaScanner]
hbase.HMaster(3252): Removed region: tablename,1205258426000 from meta region: .META.,,1
because HRegionInfo was empty [junit] 2008-03-11 11:00:34,109 WARN [HMaster.metaScanner]
hbase.HMaster(3252): Removed region: tablename,2,1205258426000 from meta region: .META.,,1
because HRegionInfo was empty [junit] 2008-03-11 11:00:34,109 WARN [HMaster.metaScanner]
hbase.HMaster(3252): Removed region: tablename,3,1205258426000 from meta region: .META.,,1
because HRegionInfo was empty [junit] 2008-03-11 11:00:34,109 WARN [HMaster.metaScanner]
hbase.HMaster(3252): Removed region: tablename,4,1205258426000 from meta region: .META.,,1
because HRegionInfo was empty [junit] 2008-03-11 11:00:34,109 INFO [HMaster.metaScanner]
hbase.HMaster$BaseScanner(303): HMaster.metaScanner scan of meta region {regionname: .META.,,1,
startKey: <>, server: 10.69.80.2:3204} complete {code}

```

**label:** code-design

10. Patch looks great as do the commit comments. Suggest you include them when you apply the patch. The patch applied to branch with some noise but no rejections. All tests pass except TTMR but that ain't nothing new. +1
11. Committed to 0.1 and trunk. Resolving issue.