Item 145
git_comments:

git_commits:

1. **summary:** MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk)
   message: MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk) git-svn-id: https://svn.apache.org/repos/asf/hadoop/common/branches/branch-0.23@1227052 13f79535-47bb-0310-9956-ffa450edef68

github_issues:

github_issues_comments:

github_pulls:

github_pulls_comments:

github_pulls_reviews:

jira_issues:

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org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1152) at
org.apache.hadoop.mapred.gridmix.Gridmix.run(Gridmix.java:311) {noformat}

13. **summary:** Job submission failing in JUnit tests
description: When I run JUnit tests (e.g. TestDistCacheEmulation, TestSleepJob and
TestCompressionEmulationUtils), I see job submission failing with the following error: {noformat}
java.lang.IllegalStateException: Variable substitution depth too large: 20 ${fs.default.name} at
org.apache.hadoop.conf.Configuration.substituteVars(Configuration.java:551) at
org.apache.hadoop.conf.Configuration.get(Configuration.java:569) at
org.apache.hadoop.conf.Configuration.getStrings(Configuration.java:1020) at
org.apache.hadoop.mapreduce.JobSubmitter.populateTokenCache(JobSubmitter.java:564) at
org.apache.hadoop.mapreduce.JobSubmitter.submitJobInternal(JobSubmitter.java:353) at
org.apache.hadoop.mapreduce.Job$2.run(Job.java:1159) at
org.apache.hadoop.mapreduce.Job$2.run(Job.java:1156) 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:1152) at
org.apache.hadoop.mapreduce.Job.submit(Job.java:1156) at
org.apache.hadoop.mapreduce.Job.waitForCompletion(Job.java:1176) at
org.apache.hadoop.mapred.gridmix.Gridmix.launchGridmixJob(Gridmix.java:190) at
org.apache.hadoop.mapred.gridmix.Gridmix.writeInputData(Gridmix.java:150) at
org.apache.hadoop.mapred.gridmix.Gridmix.start(Gridmix.java:425) at
org.apache.hadoop.mapred.gridmix.Gridmix.runJob(Gridmix.java:380) at
org.apache.hadoop.mapred.gridmix.Gridmix.access$000(Gridmix.java:56) at
org.apache.hadoop.mapred.gridmix.Gridmix$1.run(Gridmix.java:313) at
org.apache.hadoop.mapred.gridmix.Gridmix$1.run(Gridmix.java:311) 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:1152) at
org.apache.hadoop.mapred.gridmix.Gridmix.run(Gridmix.java:311) {noformat}
```

jira_issues_comments:

1. Inside of Configuration.getStrings(), getProps().getProperty("mapreduce.job.hdfs-servers") returns "$fs.default.name". System.getProperty(fs.default.name) is returning the string "${fs.default.name}" which continually is tried to be expanded causing the maximum depth exception. This patch simply sets mapreduce.job.hdfs-servers to an empty string so that it doesn't return $fs.default.name (as defined in yarn-default.xml)

2. +1 overall. Here are the results of testing the latest attachment http://issues.apache.org/jira/secure/attachment/12508428/MAPREDUCE-3462.branch-0.23.patch against trunk revision . +1 @author. The patch does not contain any @author tags. +1 tests included. The patch appears to include 9 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/1498//testReport/ Console output: https://builds.apache.org/job/PreCommit-MAPREDUCE-Build/1498//console This message is automatically generated.

3. Tested the fix on {{TestCompressionEmulationUtils}} and the test passed. I was wondering if it makes sense to add this to mapred-site.xml either at the top level (i.e {{conf/mapred-site.xml}}) or just for tests (i.e {{src/test/mapred-site.xml}}). I tired setting this property in {{src/test/mapred-site.xml}} but the test still failed. Somehow, we should make sure that the contrib tests load the {{src/test/mapred-site.xml}}.

4. I think setting {{mapreduce.job.hdfs-servers}} to an empty string in {{src/java/mapred-default.xml}} should take care of the failures. Thoughts?

5. Patch for trunk with all gridmix testcases updated with this config setting. I guess it would be better to set it somewhere in tests-config.

6. +1 overall. Here are the results of testing the latest attachment http://issues.apache.org/jira/secure/attachment/12508507/3462.trunk.patch against trunk revision . +1 @author. The patch does not contain any @author tags. +1 tests included. The patch appears to include 12 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/1503//testReport/ Console output: https://builds.apache.org/job/PreCommit-MAPREDUCE-Build/1503//console This message is automatically generated.

7. **body:** I'd be wary of adding it in src/main/..mapred-default.xml . I'd think src/test/../mapred-test.xml is where it should be added if at all. If that doesn't work currently, we should make it work. Just out of curiosity, do you know of any other tests which are failing due to this exception?
   label: test

8. **body:** Also, I'm still ignorant of the change which made the tests start to fail. I should probably understand better the reasons for that change before proposing a more generalized fix. For now, couldn't these tests

passing unblock you?

label: test

9. Fixing contrib tests to respect {{src/test/mapred-site.xml}} can be addressed later. I will commit this patch for now.

10. I just committed this to trunk and branch-0.23. Thanks Ravi Prakash and Ravi Gummadi!

11. Integrated in Hadoop-Common-trunk-Commit #1488 (See [https://builds.apache.org/job/Hadoop-Common-trunk-Commit/1488/]) MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk) amarrk : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1227051 Files : * /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestCompressionEmulationUtils.java * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestDistCacheEmulation.java * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestGridmixSubmission.java * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestSleepJob.java

12. Integrated in Hadoop-Common-0.23-Commit #333 (See [https://builds.apache.org/job/Hadoop-Common-0.23-Commit/333/]) MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk) amarrk : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1227052 Files : * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestCompressionEmulationUtils.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestDistCacheEmulation.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestGridmixSubmission.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestSleepJob.java

13. Integrated in Hadoop-Hdfs-0.23-Commit #322 (See [https://builds.apache.org/job/Hadoop-Hdfs-0.23-Commit/322/]) MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk) amarrk : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1227052 Files : * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestCompressionEmulationUtils.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestDistCacheEmulation.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestGridmixSubmission.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestSleepJob.java

14. Integrated in Hadoop-Hdfs-trunk-Commit #1560 (See [https://builds.apache.org/job/Hadoop-Hdfs-trunk-Commit/1560/]) MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk) amarrk : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1227051 Files : * /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestCompressionEmulationUtils.java * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestDistCacheEmulation.java * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestGridmixSubmission.java * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestSleepJob.java

15. Integrated test in Hadoop-Mapreduce-trunk-Commit #1509 (See [https://builds.apache.org/job/Hadoop-Mapreduce-trunk-Commit/1509/]) MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk) amarrk : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1227051 Files : * /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestCompressionEmulationUtils.java * /hadoop/common/trunk/hadoop-mapreduce-

project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestDistCacheEmulation.java * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestGridmixSubmission.java * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestSleepJob.java

16. Integrated in Hadoop-Mapreduce-0.23-Commit #344 (See [https://builds.apache.org/job/Hadoop-Mapreduce-0.23-Commit/344/]) MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk) amarrk : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1227052 Files : * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestCompressionEmulationUtils.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestDistCacheEmulation.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestGridmixSubmission.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestSleepJob.java

17. Integrated in Hadoop-Hdfs-trunk #915 (See [https://builds.apache.org/job/Hadoop-Hdfs-trunk/915/]) MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk) amarrk : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1227051 Files : * /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestCompressionEmulationUtils.java * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestDistCacheEmulation.java * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestGridmixSubmission.java * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestSleepJob.java

18. Integrated in Hadoop-Hdfs-0.23-Build #128 (See [https://builds.apache.org/job/Hadoop-Hdfs-0.23-Build/128/]) MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk) amarrk : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1227052 Files : * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestCompressionEmulationUtils.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestDistCacheEmulation.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestGridmixSubmission.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestSleepJob.java

19. Integrated in Hadoop-Mapreduce-0.23-Build #150 (See [https://builds.apache.org/job/Hadoop-Mapreduce-0.23-Build/150/]) MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk) amarrk : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1227052 Files : * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/CHANGES.txt * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestCompressionEmulationUtils.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestDistCacheEmulation.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestGridmixSubmission.java * /hadoop/common/branches/branch-0.23/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestSleepJob.java

20. Integrated in Hadoop-Mapreduce-trunk #948 (See [https://builds.apache.org/job/Hadoop-Mapreduce-trunk/948/]) MAPREDUCE-3462. Fix Gridmix JUnit testcase failures. (Ravi Prakash and Ravi Gummadi via amarrk) amarrk : http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1227051 Files : * /hadoop/common/trunk/hadoop-mapreduce-project/CHANGES.txt * /hadoop/common/trunk/hadoop-mapreduce-project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestCompressionEmulationUtils.java * /hadoop/common/trunk/hadoop-mapreduce-

project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestDistCacheEmulation.java *
/hadoop/common/trunk/hadoop-mapreduce-
project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestGridmixSubmission.java *
/hadoop/common/trunk/hadoop-mapreduce-
project/src/contrib/gridmix/src/test/org/apache/hadoop/mapred/gridmix/TestSleepJob.java

21. bq. Also, I'm still ignorant of the change which made the tests start to fail. I should probably understand better the reasons for that change before proposing a more generalized fix. I filed MAPREDUCE-3736 for the general fix. Ravi, if you figured anything out please chime in there.