

git_comments:

1. CreateFlag.SHOULD_REPLICATE is to make OutputStream on a EC directory support hflush/hsync, but EC is introduced in hadoop 3.x so we do not have this enum on 2.x, that's why we need to indirectly reference it through reflection.

git_commits:

1. **summary:** HBASE-24055 Make AsyncFSWAL can run on EC cluster (#1437)
message: HBASE-24055 Make AsyncFSWAL can run on EC cluster (#1437) Signed-off-by: Nick Dimiduk <ndimiduk@apache.org> Signed-off-by: stack <stack@apache.org>

github_issues:**github_issues_comments:****github_pulls:**

1. **title:** HBASE-24055 Make AsyncFSWAL can run on EC cluster
body:

github_pulls_comments:

1. :confetti_ball: ****+1 overall**** | Vote | Subsystem | Runtime | Comment | |:----:|-----:|-----:|:-----| | +0 :ok: | reexec | 0m 31s | Docker mode activated. | ||| _ Prechecks _ | | +1 :green_heart: | dupname | 0m 0s | No case conflicting files found. | | +1 :green_heart: | hbaseanti | 0m 0s | Patch does not have any anti-patterns. | | +1 :green_heart: | @author | 0m 0s | The patch does not contain any @author tags. | ||| _ master Compile Tests _ | | +1 :green_heart: | mvninstall | 5m 33s | master passed | | +1 :green_heart: | checkstyle | 1m 8s | master passed | | +1 :green_heart: | spotbugs | 2m 1s | master passed | ||| _ Patch Compile Tests _ | | +1 :green_heart: | mvninstall | 5m 0s | the patch passed | | +1 :green_heart: | checkstyle | 1m 6s | the patch passed | | +1 :green_heart: | whitespace | 0m 0s | The patch has no whitespace issues. | | +1 :green_heart: | hadoopcheck | 10m 20s | Patch does not cause any errors with Hadoop 2.10.0 or 3.1.2. | | +1 :green_heart: | spotbugs | 2m 14s | the patch passed | ||| _ Other Tests _ | | +1 :green_heart: | asflicense | 0m 15s | The patch does not generate ASF License warnings. | ||| 34m 50s | | Subsystem | Report/Notes | |-----:|:-----| | Docker | Client=19.03.8 Server=19.03.8 base: <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/1/artifact/yetus-general-check/output/Dockerfile> | | GITHUB PR | <https://github.com/apache/hbase/pull/1437> | | Optional Tests | dupname asflicense spotbugs hadoopcheck hbaseanti checkstyle | | uname | Linux 36f38b5a33ea 4.15.0-58-generic #64-Ubuntu SMP Tue Aug 6 11:12:41 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux | | Build tool | maven | | Personality | dev-support/hbase-personality.sh | | git revision | master / 9985c06647 | | Max. process+thread count | 93 (vs. ulimit of 10000) | | modules | C: hbase-server U: hbase-server | | Console output | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/1/console> | | versions | git=2.17.1 maven=2018-06-17T18:33:14Z) spotbugs=3.1.12 | | Powered by | Apache Yetus 0.11.1 <https://yetus.apache.org> | This message was automatically generated.
2. :confetti_ball: ****+1 overall**** | Vote | Subsystem | Runtime | Comment | |:----:|-----:|-----:|:-----| | +0 :ok: | reexec | 0m 45s | Docker mode activated. | | -0 :warning: | yetus | 0m 3s | Unprocessed flag(s): --brief-report-file --spotbugs-strict-precheck --whitespace-eol-ignore-list --whitespace-tabs-ignore-list --quick-hadoopcheck | ||| _ Prechecks _ | ||| _ master Compile Tests _ | | +1 :green_heart: | mvninstall | 5m 56s | master passed | | +1 :green_heart: | compile | 0m 59s | master passed | | +1 :green_heart: | shadedjars | 4m 56s | branch has no errors when building our shaded downstream artifacts. | | +1 :green_heart: | javadoc | 0m 38s | master passed | ||| _ Patch Compile Tests _ | | +1 :green_heart: | mvninstall | 5m 7s | the patch passed | | +1 :green_heart: | compile | 0m 57s | the patch passed | | +1 :green_heart: | javac | 0m 57s | the patch passed | | +1 :green_heart: | shadedjars | 4m 51s | patch has no errors when building our shaded downstream artifacts. | | +1 :green_heart: | javadoc | 0m 34s | the patch passed | ||| _ Other Tests _ | | +1 :green_heart: | unit | 113m 28s | hbase-server in the patch passed. | ||| 140m 28s | | Subsystem | Report/Notes | |-----:|:-----| | Docker | Client=19.03.8 Server=19.03.8 base: <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/1/artifact/yetus-jdk8-hadoop2-check/output/Dockerfile> | | GITHUB PR | <https://github.com/apache/hbase/pull/1437> | | Optional Tests |

javac javadoc unit shadedjars compile || uname | Linux b399288d786b 4.15.0-60-generic #67-Ubuntu SMP Thu Aug 22 16:55:30 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux || Build tool | maven || Personality | dev-support/hbase-personality.sh || git revision | master / 9985c06647 || Default Java | 1.8.0_232 || Test Results | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/1/testReport/> || Max. process+thread count | 4468 (vs. ulimit of 10000) || modules | C: hbase-server U: hbase-server || Console output | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/1/console> || versions | git=2.17.1 maven=2018-06-17T18:33:14Z || Powered by | Apache Yetus 0.11.1 <https://yetus.apache.org> | This message was automatically generated.

3. :confetti_ball: **+1 overall** | Vote | Subsystem | Runtime | Comment | |:----:|-----:|-----:|:-----:| | +0 :ok: | reexec | 1m 43s | Docker mode activated. | | -0 :warning: | yetus | 0m 3s | Unprocessed flag(s): --brief-report-file --spotbugs-strict-precheck --whitespace-eol-ignore-list --whitespace-tabs-ignore-list --quick-hadoopcheck ||| _ Prechecks _ ||| _ master Compile Tests _ || +1 :green_heart: | mvninstall | 8m 55s | master passed || +1 :green_heart: | compile | 1m 21s | master passed || +1 :green_heart: | shadedjars | 6m 35s | branch has no errors when building our shaded downstream artifacts. | | -0 :warning: | javadoc | 0m 44s | hbase-server in master failed. ||| _ Patch Compile Tests _ || +1 :green_heart: | mvninstall | 6m 48s | the patch passed || +1 :green_heart: | compile | 1m 11s | the patch passed || +1 :green_heart: | javac | 1m 11s | the patch passed || +1 :green_heart: | shadedjars | 6m 44s | patch has no errors when building our shaded downstream artifacts. | | -0 :warning: | javadoc | 0m 44s | hbase-server in the patch failed. ||| _ Other Tests _ || +1 :green_heart: | unit | 171m 51s | hbase-server in the patch passed. ||| 208m 32s ||| Subsystem | Report/Notes | |-----:|:-----:| | Docker | Client=19.03.8 Server=19.03.8 base: <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/1/artifact/yetus-jdk11-hadoop3-check/output/Dockerfile> || GITHUB PR | <https://github.com/apache/hbase/pull/1437> || Optional Tests | javac javadoc unit shadedjars compile || uname | Linux 38cbf31a9b6e 4.15.0-74-generic #84-Ubuntu SMP Thu Dec 19 08:06:28 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux || Build tool | maven || Personality | dev-support/hbase-personality.sh || git revision | master / 9985c06647 || Default Java | 2020-01-14 || javadoc | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/1/artifact/yetus-jdk11-hadoop3-check/output/branch-javadoc-hbase-server.txt> || javadoc | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/1/artifact/yetus-jdk11-hadoop3-check/output/patch-javadoc-hbase-server.txt> || Test Results | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/1/testReport/> || Max. process+thread count | 2844 (vs. ulimit of 10000) || modules | C: hbase-server U: hbase-server || Console output | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/1/console> || versions | git=2.17.1 maven=2018-06-17T18:33:14Z || Powered by | Apache Yetus 0.11.1 <https://yetus.apache.org> | This message was automatically generated.

4. OK, good. All green. Can I get a review? @saintstack @ndimiduk I think this should be included in 2.3. @infraio Do you think this should also go into 2.2.x?

5. And +1 for branch-2.3

6. > Changes look good. `wal` package tests in general all pass. This one specifically passes without triggering the assumption on JDK11+Hadoop3 BUT it does trigger the assumption and skip on JDK8+Hadoop2. I believe this is to be expected as the EC feature added in [HDFS-7285] (<https://issues.apache.org/jira/browse/HDFS-7285>) has a fixVersion of 3.0.0-alpha1. Yes, EC is only available in hadoop 3.x.

7. Any other concerns? @saintstack

8. :confetti_ball: **+1 overall** | Vote | Subsystem | Runtime | Comment | |:----:|-----:|-----:|:-----:| | +0 :ok: | reexec | 0m 29s | Docker mode activated. ||| _ Prechecks _ || +1 :green_heart: | dupname | 0m 0s | No case conflicting files found. || +1 :green_heart: | hbaseanti | 0m 0s | Patch does not have any anti-patterns. || +1 :green_heart: | @author | 0m 0s | The patch does not contain any @author tags. ||| _ master Compile Tests _ || +1 :green_heart: | mvninstall | 5m 6s | master passed || +1 :green_heart: | checkstyle | 1m 5s | master passed || +1 :green_heart: | spotbugs | 1m 56s | master passed ||| _ Patch Compile Tests _ || +1 :green_heart: | mvninstall | 4m 50s | the patch passed || +1 :green_heart: | checkstyle | 1m 3s | the patch passed || +1 :green_heart: | whitespace | 0m 0s | The patch has no whitespace issues. || +1 :green_heart: | hadoopcheck | 10m 15s | Patch does not cause any errors with Hadoop 2.10.0 or 3.1.2. || +1 :green_heart: | spotbugs | 2m 7s | the patch passed ||| _ Other Tests _ || +1 :green_heart: | asflicense | 0m 13s | The patch does not generate ASF License warnings. ||| 33m 34s ||| Subsystem | Report/Notes | |-----:|:-----:| | Docker | Client=19.03.8 Server=19.03.8 base: <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/artifact/yetus-general-check/output/Dockerfile> || GITHUB PR | <https://github.com/apache/hbase/pull/1437> || Optional Tests | dupname asflicense spotbugs hadoopcheck hbaseanti checkstyle || uname | Linux b56a3ab77a4a 4.15.0-58-generic #64-Ubuntu SMP Tue Aug 6 11:12:41 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux ||

Build tool | maven | | Personality | dev-support/hbase-personality.sh | | git revision | master / 62718cdb28 |
| Max. process+thread count | 93 (vs. ulimit of 10000) | | modules | C: hbase-server U: hbase-server | |
Console output | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/console> | |
versions | git=2.17.1 maven=(cecedd343002696d0abb50b32b541b8a6ba2883f) spotbugs=3.1.12 | |
Powered by | Apache Yetus 0.11.1 <https://yetus.apache.org> | This message was automatically generated.

9. :broken_heart: *-1 overall* | Vote | Subsystem | Runtime | Comment | |:----:|:-----:|:-----:|:-----:| |
+0 :ok: | reexec | 0m 30s | Docker mode activated. | | -0 :warning: | yetus | 0m 3s | Unprocessed flag(s): --
brief-report-file --spotbugs-strict-precheck --whitespace-eol-ignore-list --whitespace-tabs-ignore-list --
quick-hadoopcheck | ||| _ Prechecks _ | ||| _ master Compile Tests _ | | +1 :green_heart: | mvninstall | 6m
20s | master passed | | +1 :green_heart: | compile | 1m 4s | master passed | | -1 :x: | shadedjars | 0m 13s |
branch has 7 errors when building our shaded downstream artifacts. | | -0 :warning: | javadoc | 0m 38s |
hbase-server in master failed. | ||| _ Patch Compile Tests _ | | +1 :green_heart: | mvninstall | 5m 58s | the
patch passed | | +1 :green_heart: | compile | 1m 2s | the patch passed | | +1 :green_heart: | javac | 1m 2s |
the patch passed | | -1 :x: | shadedjars | 0m 12s | patch has 7 errors when building our shaded downstream
artifacts. | | -0 :warning: | javadoc | 0m 38s | hbase-server in the patch failed. | ||| _ Other Tests _ | | +1
:green_heart: | unit | 114m 27s | hbase-server in the patch passed. | ||| 132m 58s ||| Subsystem |
Report/Notes | |:-----:|:-----:| | Docker | Client=19.03.8 Server=19.03.8 base:
<https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/artifact/yetus-jdk11-hadoop3-check/output/Dockerfile> | | GITHUB PR | <https://github.com/apache/hbase/pull/1437> | | Optional Tests |
javac javadoc unit shadedjars compile | | uname | Linux d6138b99c796 4.15.0-60-generic #67-Ubuntu
SMP Thu Aug 22 16:55:30 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux | | Build tool | maven | |
Personality | dev-support/hbase-personality.sh | | git revision | master / 62718cdb28 | | Default Java | 2020-
01-14 | | shadedjars | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/artifact/yetus-jdk11-hadoop3-check/output/branch-shadedjars.txt> | | javadoc |
<https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/artifact/yetus-jdk11-hadoop3-check/output/branch-javadoc-hbase-server.txt> | | shadedjars | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/artifact/yetus-jdk11-hadoop3-check/output/patch-shadedjars.txt> | |
javadoc | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/artifact/yetus-jdk11-hadoop3-check/output/patch-javadoc-hbase-server.txt> | | Test Results |
<https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/testReport/> | | Max.
process+thread count | 4106 (vs. ulimit of 10000) | | modules | C: hbase-server U: hbase-server | | Console
output | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/console> | | versions |
git=2.17.1 maven=(cecedd343002696d0abb50b32b541b8a6ba2883f) | | Powered by | Apache Yetus
0.11.1 <https://yetus.apache.org> | This message was automatically generated.

10. :broken_heart: *-1 overall* | Vote | Subsystem | Runtime | Comment | |:----:|:-----:|:-----:|:-----:| |
+0 :ok: | reexec | 0m 29s | Docker mode activated. | | -0 :warning: | yetus | 0m 3s | Unprocessed flag(s): --
brief-report-file --spotbugs-strict-precheck --whitespace-eol-ignore-list --whitespace-tabs-ignore-list --
quick-hadoopcheck | ||| _ Prechecks _ | ||| _ master Compile Tests _ | | +1 :green_heart: | mvninstall | 6m
37s | master passed | | +1 :green_heart: | compile | 1m 10s | master passed | | -1 :x: | shadedjars | 0m 15s |
branch has 7 errors when building our shaded downstream artifacts. | | +1 :green_heart: | javadoc | 0m 47s |
master passed | ||| _ Patch Compile Tests _ | | +1 :green_heart: | mvninstall | 6m 21s | the patch passed | |
+1 :green_heart: | compile | 1m 16s | the patch passed | | +1 :green_heart: | javac | 1m 16s | the patch
passed | | -1 :x: | shadedjars | 0m 13s | patch has 7 errors when building our shaded downstream artifacts. | |
+1 :green_heart: | javadoc | 0m 45s | the patch passed | ||| _ Other Tests _ | | +1 :green_heart: | unit | 183m
7s | hbase-server in the patch passed. | ||| 202m 36s ||| Subsystem | Report/Notes | |:-----:|:-----:| |
Docker | Client=19.03.8 Server=19.03.8 base: <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/artifact/yetus-jdk8-hadoop2-check/output/Dockerfile> | | GITHUB PR |
<https://github.com/apache/hbase/pull/1437> | | Optional Tests | javac javadoc unit shadedjars compile | |
uname | Linux 0536c4fcf66a 4.15.0-74-generic #84-Ubuntu SMP Thu Dec 19 08:06:28 UTC 2019
x86_64 x86_64 x86_64 GNU/Linux | | Build tool | maven | | Personality | dev-support/hbase-
personality.sh | | git revision | master / 62718cdb28 | | Default Java | 1.8.0_232 | | shadedjars |
<https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/artifact/yetus-jdk8-hadoop2-check/output/branch-shadedjars.txt> | | shadedjars | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/artifact/yetus-jdk8-hadoop2-check/output/patch-shadedjars.txt> | | Test Results |
<https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/testReport/> | | Max.
process+thread count | 3475 (vs. ulimit of 10000) | | modules | C: hbase-server U: hbase-server | | Console
output | <https://builds.apache.org/job/HBase-PreCommit-GitHub-PR/job/PR-1437/2/console> | | versions |
git=2.17.1 maven=(cecedd343002696d0abb50b32b541b8a6ba2883f) | | Powered by | Apache Yetus
0.11.1 <https://yetus.apache.org> | This message was automatically generated.

github_pulls_reviews:

1. Should this be logged at `warn` instead?
2. nice cleanup.
3. I used to make all the adaptor code to log as WARN but it was proven to be annoying for most users and we changed them all to debug...
4. This happens every time we open a file in hadoop2? Or just once on class loading? (Looks like the latter).
5. This is how we test if the the SHOULD_REPLICATE flag is available? It is not available if hadoop2? If so, can we have a comment on the method to this effect? The log is a little confusing. Suggest:
"SHOULD_REPLICATE is not available; this is a problem if we are running on hadoop3 (Its expected if hadoop2)".
6. Only once when loading.
7. All the other log messages are just like this, so do not want to only change this one. Let me add some comments on the field.

jira_issues:

jira_issues_comments: