

PHOENIX-6232

symat

2020-11-23

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Chapter 1

Root issue PHOENIX-6232

1.1 Summary

Correlated subquery should not push to RegionServer as the probe side of the Hash join

1.2 Description

We were facing an interesting problem when a more complex query (with inner selects in the WHERE clause) succeeds alone, while the same query fails, if it is part of a join. I created a test table / query to reproduce the problem:

```
1 DROP TABLE IF EXISTS test;
2 CREATE TABLE test (
3     id INTEGER NOT NULL,
4     test_id INTEGER,
5     lastchanged TIMESTAMP,
6     CONSTRAINT my_pk PRIMARY KEY (id));
7
8 UPSERT INTO test VALUES(0, 100, '2000-01-01 00:00:00.0');
9 UPSERT INTO test VALUES(1, 101, '2000-01-01 00:00:00.0');
10 UPSERT INTO test VALUES(2, 100, '2011-11-11 11:11:11.0');
```

Query 1: Example query, running fine in itself:

```
1 SELECT id, test_id, lastchanged FROM test T
2 WHERE lastchanged = ( SELECT max(lastchanged) FROM test WHERE test_id = T.test_id )
3
4 Returns:
5 +-----+-----+-----+
6 | ID | TEST_ID | LASTCHANGED |
7 +-----+-----+-----+
8 | 1 | 101 | 2000-01-01 01:00:00.0 |
9 | 2 | 100 | 2011-11-11 12:11:11.0 |
10 +-----+-----+-----+
```

Query 2: Same query fails on the current master branch, when it is part of a larger (implicit) join:

```
1 SELECT AAA.*
```

```

2 FROM
3 (
4     SELECT id, test_id, lastchanged FROM test T
5     WHERE lastchanged = ( SELECT max(lastchanged) FROM test WHERE test_id = T.test_id )
6 ) as AAA,
7 (
8     SELECT id FROM test
9 ) as BBB
10 WHERE AAA.id = BBB.id;
11
12
13 java.lang.IllegalArgumentException
14     at org.apache.phoenix.thirdparty.com.google.common.base.Preconditions.checkArgument (
15         Preconditions.java:128)
16     at org.apache.phoenix.compile.TupleProjectionCompiler.createProjectedTable (
17         TupleProjectionCompiler.java:66)
18     at org.apache.phoenix.compile.QueryCompiler.compileSingleFlatQuery (QueryCompiler.
19         java:663)
20     at org.apache.phoenix.compile.QueryCompiler.compileJoinQuery (QueryCompiler.java:404)
21     at org.apache.phoenix.compile.QueryCompiler.compileJoinQuery (QueryCompiler.java:302)
22     at org.apache.phoenix.compile.QueryCompiler.compileSelect (QueryCompiler.java:249)
23     at org.apache.phoenix.compile.QueryCompiler.compile (QueryCompiler.java:176)
24     at org.apache.phoenix.jdbc.PhoenixStatement$ExecutableSelectStatement.compilePlan (
25         PhoenixStatement.java:504)
26     at org.apache.phoenix.jdbc.PhoenixStatement$ExecutableSelectStatement.compilePlan (
27         PhoenixStatement.java:467)
28     at org.apache.phoenix.jdbc.PhoenixStatement$1.call (PhoenixStatement.java:309)
29     at org.apache.phoenix.jdbc.PhoenixStatement$1.call (PhoenixStatement.java:298)
30     at org.apache.phoenix.call.CallRunner.run (CallRunner.java:53)
31     at org.apache.phoenix.jdbc.PhoenixStatement.executeQuery (PhoenixStatement.java:297)
32     at org.apache.phoenix.jdbc.PhoenixStatement.executeQuery (PhoenixStatement.java:290)
33     at org.apache.phoenix.jdbc.PhoenixStatement.execute (PhoenixStatement.java:1933)
34     at sqlline.Commands.executeSingleQuery (Commands.java:1054)
35     at sqlline.Commands.execute (Commands.java:1003)
36     at sqlline.Commands.sql (Commands.java:967)
37     at sqlline.SqlLine.dispatch (SqlLine.java:734)
38     at sqlline.SqlLine.begin (SqlLine.java:541)
39     at sqlline.SqlLine.start (SqlLine.java:267)
40     at sqlline.SqlLine.main (SqlLine.java:206)

```

I am not sure what the problem is exactly. My guess is that Phoenix tries to optimize (flatten) an inner-query, which it shouldn't, if we are inside a join (according to the check in the code which throws the exception).

The best workaround I found was to define an explicit join in the original query (Query 1), basically change the inner select into a join. This modified query return the same as the original one:

Query 3:

```

1 SELECT T.id, T.test_id, T.lastchanged
2 FROM
3     test T
4     LEFT JOIN (
5         SELECT max(lastchanged) AS max_timestamp,
6             test_id AS max_timestamp_test_id
7         FROM test
8         GROUP BY test_id
9     ) JOIN_TABLE ON JOIN_TABLE.max_timestamp_test_id = T.test_id
10 WHERE T.lastchanged = JOIN_TABLE.max_timestamp
11
12 Returns:

```

```

13 |-----+-----+-----+
14 | T.ID | T.TEST_ID | T.LASTCHANGED |
15 |-----+-----+-----+
16 | 1 | 101 | 2000-01-01 01:00:00.0 |
17 | 2 | 100 | 2011-11-11 12:11:11.0 |
18 |-----+-----+-----+

```

Query 4: And the same modified query (query 3) now works inside a join:

```

1 SELECT AAA.*
2 FROM
3 (
4     SELECT T.id, T.test_id, T.lastchanged
5     FROM
6         test T
7     LEFT JOIN (
8         SELECT max(lastchanged) AS max_timestamp,
9                test_id AS max_timestamp_test_id
10        FROM test
11        GROUP BY test_id
12    ) JOIN_TABLE ON JOIN_TABLE.max_timestamp_test_id = T.test_id
13 WHERE T.lastchanged = JOIN_TABLE.max_timestamp
14 ) as AAA,
15 (
16     SELECT id FROM test
17 ) as BBB
18 WHERE AAA.id = BBB.id;
19
20 Returns:
21 |-----+-----+-----+
22 | T.ID | T.TEST_ID | T.LASTCHANGED |
23 |-----+-----+-----+
24 | 1 | 101 | 2000-01-01 01:00:00.0 |
25 | 2 | 100 | 2011-11-11 12:11:11.0 |
26 |-----+-----+-----+

```

I think Query 4 worked, as it is forcing Phoenix to drop the idea of optimizing it's inner-query (Query 3). Although, I can be wrong about the root cause...

Anyway, I think the bug should be fixed and Query 2 should run without exception.

1.3 Attachments

1. [PHOENIX-6232_v1-4.x.patch](#)
2. [PHOENIX-6232_v1-master.patch](#)

1.4 Comments

1. **comnetwork:** [~symat]ĩijÑ thank you very much for the report. It is indeed a bug, I would try to fix it.

I reproduced your problem on the latest branch 4.x, but the exception is different from your reported exception, what is your phoenix version?

2. **symat:** [~comnetwork], thanks for looking into this!

>I reproduced your problem on the latest branch 4.x, but the exception is different from your reported exception, what is your phoenix version?

First I saw this issue on our downstream phoenix, which is based on 5.0.0 (but might contain some newer commits cherry-picked). Then I tried to reproduce the same problem on other versions. The stacktrace I copied here come from a phoenix I built from the apache master branch 2 days ago. (I haven't tested this on any 4.x versions yet)

3. **comnetwork:** [~symat]. thank you very much, I would try to fix this and to test on the 4.x and master.
4. **wangchao316:** I reproduce this issues in 5.0.0 branch. this exception is same as query 2.
5. **githubbot:** comnetwork opened a new pull request #992:
URL: <https://github.com/apache/phoenix/pull/992>

This is an automated message from the Apache Git Service.
To respond to the message, please log on to GitHub and use the
URL above to go to the specific comment.

For queries about this service, please contact Infrastructure at:
users@infra.apache.org

6. **comnetwork:** [~symat], I uploaded my patch to fix this bug, I think the root cause is that

```
1
2 SELECT id, test_id, lastchanged FROM test T
3
4 WHERE lastchanged = ( SELECT max(lastchanged) FROM test WHERE test_id = T.test_id
5 )
```

has Correlated subquery ({{SELECT max(lastchanged) FROM test WHERE test_id = T.test_id}}), which is a join itself, so it could not as the probe side of the Hash join.

You may also use `/*+ USE_SORT_MERGE_JOIN*/` hint to get around this bug.

7. **symat:** [~comnetwork], thanks for the very quick fix! :)

I'm going to build your patch and also execute the original query failed for us in production.

8. **hadoopqa:** | (x) *{color:red}-1 overall{color}* |

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|| Vote || Subsystem || Runtime || Comment ||

| {color:blue}0{color} | {color:blue} reexec {color} | {color:blue} 0m 41s{color} | {color:blue}
Docker mode activated. {color} |

|| || || || {color:brown} Prechecks {color} ||

| {color:green}+1{color} | {color:green} dupname {color} | {color:green} 0m 0s{color} |
{color:green} No case conflicting files found. {color} |

| {color:green}+1{color} | {color:green} hbaseanti {color} | {color:green} 0m 0s{color} |
{color:green} Patch does not have any anti-patterns. {color} |

| {color:green}+1{color} | {color:green} @author {color} | {color:green} 0m 0s{color} |
{color:green} The patch does not contain any @author tags. {color} |

| {color:green}+1{color} | {color:green} test4tests {color} | {color:green} 0m 0s{color} |
{color:green} The patch appears to include 2 new or modified test files. {color} |

|| || || || {color:brown} 4.x Compile Tests {color} ||

| {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 5m 59s{color}
| {color:green} 4.x passed {color} |

| {color:green}+1{color} | {color:green} compile {color} | {color:green} 0m 55s{color} |
{color:green} 4.x passed {color} |

| {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 1m 27s{color}
| {color:green} 4.x passed {color} |

| {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 41s{color} |
{color:green} 4.x passed {color} |

| {color:blue}0{color} | {color:blue} spotbugs {color} | {color:blue} 2m 59s{color} | {color:blue}
phoenix-core in 4.x has 950 extant spotbugs warnings. {color} |

|| || || || {color:brown} Patch Compile Tests {color} ||

| {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 5m 37s{color}
| {color:green} the patch passed {color} |

| {color:green}+1{color} | {color:green} compile {color} | {color:green} 0m 53s{color} |
{color:green} the patch passed {color} |

| {color:green}+1{color} | {color:green} javac {color} | {color:green} 0m 53s{color} | {color:green}

the patch passed {color} |

| {color:red}-1{color} | {color:red} checkstyle {color} | {color:red} 1m 28s{color} | {color:red}
phoenix-core: The patch generated 180 new + 2552 unchanged - 142 fixed = 2732 total (was
2694) {color} |

| {color:green}+1{color} | {color:green} whitespace {color} | {color:green} 0m 0s{color}
| {color:green} The patch has no whitespace issues. {color} |

| {color:red}-1{color} | {color:red} javadoc {color} | {color:red} 0m 43s{color} | {color:red}
phoenix-core generated 2 new + 98 unchanged - 2 fixed = 100 total (was 100) {color} |

| {color:green}+1{color} | {color:green} spotbugs {color} | {color:green} 3m 6s{color} |
{color:green} the patch passed {color} |

|| || || || {color:brown} Other Tests {color} ||

| {color:red}-1{color} | {color:red} unit {color} | {color:red}143m 9s{color} | {color:red}
phoenix-core in the patch failed. {color} |

| {color:green}+1{color} | {color:green} asflicense {color} | {color:green} 0m 33s{color} |
{color:green} The patch does not generate ASF License warnings. {color} |

| {color:black}{color} | {color:black} {color} | {color:black}168m 50s{color} | {color:black}
{color} |

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|| Reason || Tests ||

| Failed junit tests | phoenix.end2end.AlterTableWithViewsIT |

| | phoenix.end2end.RangeScanIT |

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|| Subsystem || Report/Notes ||

| Docker | ClientAPI=1.40 ServerAPI=1.40 base: <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/230/artifact/patchprocess/Dockerfile> |

| JIRA Issue | PHOENIX-6232 |

| JIRA Patch URL | https://issues.apache.org/jira/secure/attachment/13016278/PHOENIX-6232_v1-4.x.patch |

| Optional Tests | dupname asflicense javac javadoc unit spotbugs hbaseanti checkstyle compile |

| uname | Linux 26b8d3769836 4.15.0-112-generic #113-Ubuntu SMP Thu Jul 9 23:41:39

UTC 2020 x86_64 x86_64 x86_64 GNU/Linux |

| Build tool | maven |

| Personality | dev/phoenix-personality.sh |

| git revision | 4.x / 18b9f76 |

| Default Java | Private Build-1.8.0_242-8u242-b08-0ubuntu3~16.04-b08 |

| checkstyle | <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/230/artifact/patchprocess/diff-checkstyle-phoenix-core.txt> |

| javadoc | <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/230/artifact/patchprocess/diff-javadoc-javadoc-phoenix-core.txt> |

| unit | <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/230/artifact/patchprocess/patch-unit-phoenix-core.txt> |

| Test Results | <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/230/testReport/> |

| Max. process+thread count | 6458 (vs. ulimit of 30000) |

| modules | C: phoenix-core U: phoenix-core |

| Console output | <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/230/console> |

| versions | git=2.7.4 maven=3.3.9 spotbugs=4.1.3 |

| Powered by | Apache Yetus 0.12.0 <https://yetus.apache.org> |

This message was automatically generated.

9. **githubbot:** symat commented on pull request #992:
URL: <https://github.com/apache/phoenix/pull/992#issuecomment-736616782>

I can not comment on the code (I'm not familiar with Phoenix internals) but I executed the original production query that failed for us before the patch, and after applying this patch the query succeed. Thanks for the fix!

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10. **symat:** I executed the original production query that failed for us before the patch, and after applying this patch the query succeed. I tested it on branch 4.x, as the PR was submitted against 4.x. Thanks for the fix again!

Do you plan to also cherry-pick the change to master? (I don't know how the branching works in Phoenix... but it would be great to have this fix in the next 5.x release too)

11. **githubbot:** stoty commented on pull request #992:
URL: <https://github.com/apache/phoenix/pull/992#issuecomment-736651838>

:broken_heart: **-1 overall**

```
| Vote | Subsystem | Runtime | Comment |
|:---:|:-----:|:-----:|:-----:|
| +0 :ok: | reexec | 5m 7s | 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.
|
| +1 :green_heart: | test4tests | 0m 0s | The patch appears to include 2 new or modified test files. |
||| __ 4.x Compile Tests __ |
| +1 :green_heart: | mvninstall | 11m 16s | 4.x passed |
```

```

| +1 :green_heart: | compile | 0m 55s | 4.x passed |
| +1 :green_heart: | checkstyle | 1m 33s | 4.x passed |
| +1 :green_heart: | javadoc | 0m 43s | 4.x passed |
| +0 :ok: | spotbugs | 2m 56s | phoenix-core in 4.x has 950 extant spotbugs warnings.
|
||| __ Patch Compile Tests __ | |
| +1 :green_heart: | mvninstall | 5m 24s | the patch passed |
| +1 :green_heart: | compile | 0m 55s | the patch passed |
| +1 :green_heart: | javac | 0m 55s | the patch passed |
| -1 :x: | checkstyle | 1m 39s | phoenix-core: The patch generated 121 new + 2612 un-
changed - 83 fixed = 2733 total (was 2695) |
| +1 :green_heart: | whitespace | 0m 0s | The patch has no whitespace issues. |
| -1 :x: | javadoc | 0m 41s | phoenix-core generated 1 new + 99 unchanged - 1 fixed =
100 total (was 100) |
| +1 :green_heart: | spotbugs | 3m 6s | the patch passed |
||| __ Other Tests __ |
| -1 :x: | unit | 206m 57s | phoenix-core in the patch failed. |
| +1 :green_heart: | asflicense | 0m 35s | The patch does not generate ASF License warnings. |
| | | 244m 42s | |

```

```

| Reason | Tests |
|-----:|:-----|
| Failed junit tests | phoenix.end2end.PointInTimeQueryIT |

```

```

| Subsystem | Report/Notes |
|-----:|:-----|

```

| Docker | ClientAPI=1.40 ServerAPI=1.40 base: <https://ci-hadoop.apache.org/job/Phoenix/job/Phoenix-PreCommit-GitHub-PR/job/PR-992/1/artifact/yetus-general-check/output/Dockerfile> |

| GITHUB PR | <https://github.com/apache/phoenix/pull/992> |

| JIRA Issue | PHOENIX-6232 |

| Optional Tests | dupname asflicense javac javadoc unit spotbugs hbaseanti checkstyle compile |

| uname | Linux a25f0bde3789 4.15.0-65-generic #74-Ubuntu SMP Tue Sep 17 17:06:04 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux |

| Build tool | maven |

| Personality | dev/phoenix-personality.sh |

| git revision | 4.x / 18b9f76 |

| Default Java | Private Build-1.8.0_242-8u242-b08-0ubuntu3~16.04-b08 |

| checkstyle | <https://ci-hadoop.apache.org/job/Phoenix/job/Phoenix-PreCommit-GitHub-PR/job/PR-992/1/artifact/yetus-general-check/output/diff-checkstyle-phoenix-core.txt> |

| javadoc | <https://ci-hadoop.apache.org/job/Phoenix/job/Phoenix-PreCommit-GitHub-PR/job/PR-992/1/artifact/yetus-general-check/output/diff-javadoc-javadoc-phoenix-core.txt> |

| unit | <https://ci-hadoop.apache.org/job/Phoenix/job/Phoenix-PreCommit-GitHub-PR/job/PR-992/1/artifact/yetus-general-check/output/patch-unit-phoenix-core.txt> |

| Test Results | <https://ci-hadoop.apache.org/job/Phoenix/job/Phoenix-PreCommit-GitHub-PR/job/PR-992/1/testReport/> |

| Max. process+thread count | 6170 (vs. ulimit of 30000) |

| modules | C: phoenix-core U: phoenix-core |

| Console output | <https://ci-hadoop.apache.org/job/Phoenix/job/Phoenix-PreCommit-GitHub-PR/job/PR-992/1/console> |

| versions | git=2.7.4 maven=3.3.9 spotbugs=4.1.3 |

| Powered by | Apache Yetus 0.12.0 <https://yetus.apache.org> |

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users@infra.apache.org

12. **comnetwork:** [~symat],Thank you for quick feedback, I would make a patch for the master also.

13. **comnetwork:** Uploaded my patch for the master.

14. **symat:** Thank you [~comnetwork]!! :)

15. **hadoopqa:** | (x) *{color:red}-1 overall{color}* |

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|| Vote || Subsystem || Runtime || Comment ||

| {color:blue}0{color} | {color:blue} reexec {color} | {color:blue} 0m 57s{color} | {color:blue}
Docker mode activated. {color} |

|| || || || {color:brown} Prechecks {color} ||

| {color:green}+1{color} | {color:green} dupname {color} | {color:green} 0m 0s{color} |
{color:green} No case conflicting files found. {color} |

| {color:green}+1{color} | {color:green} hbaseanti {color} | {color:green} 0m 0s{color} |
{color:green} Patch does not have any anti-patterns. {color} |

| {color:green}+1{color} | {color:green} @author {color} | {color:green} 0m 0s{color} |
{color:green} The patch does not contain any @author tags. {color} |

| {color:green}+1{color} | {color:green} test4tests {color} | {color:green} 0m 0s{color} |
{color:green} The patch appears to include 2 new or modified test files. {color} |

|| || || || {color:brown} master Compile Tests {color} ||

| {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 10m 41s{color} |
{color:green} master passed {color} |

| {color:green}+1{color} | {color:green} compile {color} | {color:green} 1m 5s{color} | {color:green}
master passed {color} |

| {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 1m 26s{color}
{color:green} master passed {color} |

| {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 53s{color} |
{color:green} master passed {color} |

| {color:blue}0{color} | {color:blue} spotbugs {color} | {color:blue} 3m 29s{color} | {color:blue}
phoenix-core in master has 966 extant spotbugs warnings. {color} |

|| || || || {color:brown} Patch Compile Tests {color} ||

| {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 9m 29s{color}
| {color:green} the patch passed {color} |

| {color:green}+1{color} | {color:green} compile {color} | {color:green} 1m 0s{color} | {color:green}
the patch passed {color} |

| {color:green}+1{color} | {color:green} javac {color} | {color:green} 1m 0s{color} | {color:green}
the patch passed {color} |

| {color:red}-1{color} | {color:red} checkstyle {color} | {color:red} 1m 27s{color} | {color:red}
phoenix-core: The patch generated 121 new + 2673 unchanged - 84 fixed = 2794 total (was
2757) {color} |

| {color:green}+1{color} | {color:green} whitespace {color} | {color:green} 0m 0s{color}
| {color:green} The patch has no whitespace issues. {color} |

| {color:red}-1{color} | {color:red} javadoc {color} | {color:red} 0m 51s{color} | {color:red}
phoenix-core generated 2 new + 98 unchanged - 2 fixed = 100 total (was 100) {color} |

| {color:green}+1{color} | {color:green} spotbugs {color} | {color:green} 3m 38s{color} |
{color:green} the patch passed {color} |

|| || || || {color:brown} Other Tests {color} ||

| {color:red}-1{color} | {color:red} unit {color} | {color:red} 110m 37s{color} | {color:red}
phoenix-core in the patch failed. {color} |

| {color:green}+1{color} | {color:green} asflicense {color} | {color:green} 0m 22s{color} |
{color:green} The patch does not generate ASF License warnings. {color} |

| {color:black}{color} | {color:black} {color} | {color:black} 146m 39s{color} | {color:black}
{color} |

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|| Subsystem || Report/Notes ||

| Docker | ClientAPI=1.40 ServerAPI=1.40 base: <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/236/artifact/patchprocess/Dockerfile> |

| JIRA Issue | PHOENIX-6232 |

| JIRA Patch URL | https://issues.apache.org/jira/secure/attachment/13016332/PHOENIX-6232_v1-master.patch |

| Optional Tests | dupname asflicense javac javadoc unit spotbugs hbaseanti checkstyle com-

pile |

| uname | Linux 0f430c00e671 4.15.0-112-generic #113-Ubuntu SMP Thu Jul 9 23:41:39
UTC 2020 x86_64 x86_64 x86_64 GNU/Linux |

| Build tool | maven |

| Personality | dev/phoenix-personality.sh |

| git revision | master / 8c260aa |

| Default Java | Private Build-1.8.0_242-8u242-b08-0ubuntu3~16.04-b08 |

| checkstyle | <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/236/artifact/patchprocess/diff-checkstyle-phoenix-core.txt> |

| javadoc | <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/236/artifact/patchprocess/diff-javadoc-javadoc-phoenix-core.txt> |

| unit | <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/236/artifact/patchprocess/patch-unit-phoenix-core.txt> |

| Test Results | <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/236/testReport/>
|

| Max. process+thread count | 6810 (vs. ulimit of 30000) |

| modules | C: phoenix-core U: phoenix-core |

| Console output | <https://ci-hadoop.apache.org/job/PreCommit-PHOENIX-Build/236/console>
|

| versions | git=2.7.4 maven=3.3.9 spotbugs=4.1.3 |

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