TAJO-1166

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Contents

Chapter 1

Root issue TAJO-1166

1.1 Summary

S3 related storage causes compilation error in Hadoop 2.6.0-SNAPSHOT

1.2 Description

error: cannot find symbol

[ERROR]

```
mvn clean install -DskipTests -Dhadoop.version=2.6.0-SNAPSHOT
```

The above command will cause the following error:

```
[ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
 error: package org.apache.hadoop.fs.s3 does not exist
 [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
 error: cannot find symbol
                                                                                                          symbol: class S3FileSystem
 /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
error: cannot find symbol
 [ERROR]
                                                                                                                symbol:
                                                                                                                                                                                                                                class FileSystemStore
                        location: class SmallBlockS3FileSystem
 /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/I:
 error: package org.apache.hadoop.fs.s3 does not exist
 [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
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 [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
 error: package org.apache.hadoop.fs.s3 does not exist
```

[ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/src/te

symbol: class FileSystemStore

```
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/I
error: package org.apache.hadoop.fs.s3 does not exist
[ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/storage/src/test/java/org/apache/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/t
error: cannot find symbol
[ERROR]
                                               symbol:
                                                                                              class Block
          location: class InMemoryFileSystemStore
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/I:
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                                                                                              class Block
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                                                                                            class Block
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                                                                                              class Block
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error: cannot find symbol
[ERROR]
                                               symbol:
                                                                                        class FileSystemStore
         location: class Holder
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/Test
error: package org.apache.hadoop.fs.s3 does not exist
[ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/storage/src/test/java/org/apache/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/t
error: package org.apache.hadoop.fs.s3 does not exist
[ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
error: package org.apache.hadoop.fs.s3 does not exist
[ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
error: package org.apache.hadoop.fs.s3 does not exist
[ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
error: cannot find symbol
[ERROR]
                                               symbol:
                                                                                              class FileSystemStore
         location: class S3OutputStream
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/S
error: cannot find symbol
                                                                                             class Block
                                              symbol:
[ERROR]
          location: class S3OutputStream
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/S
error: cannot find symbol
[ERROR]
                                              symbol:
                                                                                        class Block
          location: class S3OutputStream
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/S
error: cannot find symbol
 [ERROR]
                                               symbol:
                                                                                              class FileSystemStore
          location: class S3OutputStream
```

```
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
 error: method does not override or implement a method from a supertype
 [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
 error: method does not override or implement a method from a supertype
 [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
 error: cannot find symbol
                                         symbol:
                                                                              method setConf(Configuration)
         location: class SmallBlockS3FileSystem
 /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
 error: no suitable method found for makeQualified(SmallBlockS3FileSystem)
 [ERROR]
                                                  method Path.makeQualified(URI,Path) is not applicable
                          (actual and formal argument lists differ in length)
                method Path.makeQualified(FileSystem) is not applicable
                          (actual argument SmallBlockS3FileSystem cannot be converted to FileSystem
by method invocation conversion)
 /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
 error: method does not override or implement a method from a supertype
 [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
 error: method does not override or implement a method from a supertype
 [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
 error: no suitable method found for makeQualified(SmallBlockS3FileSystem)
                                                  method Path.makeQualified(URI,Path) is not applicable
                          (actual and formal argument lists differ in length)
                method Path.makeQualified(FileSystem) is not applicable
                          (actual argument SmallBlockS3FileSystem cannot be converted to FileSystem
by method invocation conversion)
 /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
 error: no suitable method found for makeQualified(SmallBlockS3FileSystem)
 [ERROR]
                                                  method Path.makeQualified(URI,Path) is not applicable
                          (actual and formal argument lists differ in length)
                method Path.makeQualified(FileSystem) is not applicable
                          (actual argument SmallBlockS3FileSystem cannot be converted to FileSystem
by method invocation conversion)
 /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
 error: method does not override or implement a method from a supertype
 [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
 error: method mkdirs in class SmallBlockS3FileSystem cannot be applied to
given types;
 [ERROR]
                                         required: Path, FsPermission
        found: Path
        reason: actual and formal argument lists differ in length
 /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
 error: cannot find symbol
                                          symbol: method getConf()
        location: class SmallBlockS3FileSystem
 /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
error: cannot find symbol
 [ERROR]
                                          symbol:
                                                                                  variable statistics
         location: class SmallBlockS3FileSystem
 /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
 error: method does not override or implement a method from a supertype
```

error: method does not override or implement a method from a supertype

[ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test

[ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/storage/src/test/java/org/apache/src/test/java

```
error: method does not override or implement a method from a supertype
  [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
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 error: cannot find symbol
  [ERROR]
                                                                                                    symbol:
                                                                                                                                                                                                       class Block
                     location: class SmallBlockS3FileSystem
  /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
  error: method does not override or implement a method from a supertype
  [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
  error: no suitable method found for makeQualified(SmallBlockS3FileSystem)
                                                                                                                        method Path.makeQualified(URI,Path) is not applicable
                                                                (actual and formal argument lists differ in length)
                                        method Path.makeQualified(FileSystem) is not applicable
                                                              (actual argument SmallBlockS3FileSystem cannot be converted to FileSystem
by method invocation conversion)
  /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
  error: method does not override or implement a method from a supertype
  [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
  error: cannot find symbol
                                                                                                                                                                                        class Block
  [ERROR]
                                                                                                   symbol:
                     location: class S3FileStatus
  /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/Si
  error: cannot find symbol
  [ERROR]
                                                                                                    symbol:
                                                                                                                                                                                                      class Block
                     location: class S3FileStatus
  /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/I:
  error: method does not override or implement a method from a supertype
  [ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
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[ERROR] /Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/tajo/storage/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test/java/org/apache/src/test
error: cannot find symbol
[ERROR]
                       symbol:
                                             class Block
    location: class INode
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/I
error: cannot find symbol
[ERROR]
                      symbol:
                                           class Block
    location: class INode
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/I
error: cannot find symbol
[ERROR]
                      symbol:
                                              class Block
    location: class INode
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/Test
error: cannot find symbol
[ERROR]
                   symbol:
                                          class S3FileSystem
     location: class TestFileSystems
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/Test
error: incompatible types
[ERROR]
                      required: Object
                           SmallBlockS3FileSystem
    found:
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/S
error: cannot find symbol
[ERROR]
                       symbol:
                                             class Block
    location: class S3OutputStream
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/S
error: cannot find symbol
[ERROR]
                       symbol:
                                              class Block
    location: class S3OutputStream
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/S
error: cannot find symbol
[ERROR]
                      symbol:
                                              class Block
    location: class S3OutputStream
/Users/hyunsik/Code/tajo/tajo-9/tajo-storage/src/test/java/org/apache/tajo/storage/s3/S
error: cannot find symbol
```

1.3 Attachments

No attachments

1.4 Commits

1. Commit **3d485ec** by **JaeHwa Jung** (2014-11-27): TAJO-1166: S3 related storage causes compilation error in Hadoop 2.6.0-SNAPSHOT. (jaehwa)

Closes #262

1.5 Comments

 jhkim: It seems that the s3 packages moved to sub-level HADOOP-11074, HADOOP-10400 I found the netflix contribution. it looks good to me http://www.slideshare.net/zhenxiao/presto-atnetflix http://techblog.netflix.com/2014/10/using-presto-in-our-big-data-platform.html

2. hyunsik: +1 for Jinho's idea.

In Hadoop 2.6.0-SNAPSHOT, S3 related classes seem to be moved to a separate maven module, named hadoop-aws. It may be hard for Tajo to support multiple Hadoop versions. Actually, we can solve this problem if we use both maven profile ({{-P}}) and maven {{-D}} option. But, instead, as Jinho said, it would be great to have our own S3 implementation based on some other implementation. Netflix contributions look promising.

3. blrunner: Hi guys.

Thanks for your ideas and I also agree with yours. And I found two problems fixing this issue.

The first is aws dependency. As Hyunsik said, S3 module separated to hadoop-aws. The second is yarn containerId primitive change. In hadoop-2.6.0, containerId primitive type changed from int to long.

Thus, this issue need to separate S3 dependency improvement and hadoop-2.6.0 bump up. For the first, I'll improve S3 dependency with netflix contribution sooner or later.

For reference, I uploaded small patch to my private repository as follows.

- https://github.com/blrunner/tajo/tree/TAJO-1166

You can build it as follows:

mvn clean install -Dhadoop.version=2.6.0-SNAPSHOT

- 4. **blrunner:** I've just removed aws-sdk dependencies. And I replaced S3FileSystem to Local-FileSystem for S3 unit test case in temporary.
- 5. **blrunner:** [~jhkim], thanks for your quick review. I've just committed it to master branch.
- 6. hudson: SUCCESS: Integrated in Tajo-master-build #464 (See [https://builds.apache.org/job/Tajo-master-build/464/])

TAJO-1166: S3 related storage causes compilation error in Hadoop 2.6.0-SNAPSHOT. (jaehwa) (blrunner: rev 3d485ecb0112af12258a5a2bdc4a400b8df4fae8)

- * tajo-core/src/main/java/org/apache/tajo/master/DefaultTaskScheduler.java
- * tajo-core/src/main/java/org/apache/tajo/master/ContainerProxy.java
- * tajo-core/src/main/java/org/apache/tajo/master/event/LocalTaskEvent.java
- * tajo-core/src/main/java/org/apache/tajo/worker/TaskRunnerHistory.java
- * CHANGES
- * tajo-core/pom.xml
- * tajo-storage/src/test/java/org/apache/tajo/storage/s3/INode.java
- * tajo-core/src/main/java/org/apache/tajo/master/rm/TajoWorkerContainerId.java
- * tajo-storage/src/test/java/org/apache/tajo/storage/s3/S3OutputStream.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/QueryUnitAttempt.java
- * tajo-core/src/main/java/org/apache/tajo/worker/TajoResourceAllocator.java

- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoRecordFactoryPBImpl.java
- * tajo-core/src/main/java/org/apache/tajo/master/container/impl/pb/TajoContainerIdPBImpl.java
- * tajo-storage/src/test/java/org/apache/tajo/storage/s3/InMemoryFileSystemStore.java
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoContainer.java
- * tajo-core/src/main/java/org/apache/tajo/master/event/TaskAttemptAssignedEvent.java
- * tajo-core/src/main/java/org/apache/tajo/master/rm/TajoRMContext.java
- * tajo-core/src/main/java/org/apache/tajo/master/rm/WorkerResourceManager.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/QueryMasterManagerService.java
- * tajo-core/src/main/java/org/apache/tajo/master/rm/TajoWorkerResourceManager.java
- * tajo-core/src/main/java/org/apache/tajo/master/event/QueryUnitAttemptScheduleEvent.java
- * tajo-core/src/main/java/org/apache/tajo/master/event/TaskRequestEvent.java
- * tajo-core/src/main/java/org/apache/tajo/master/LazyTaskScheduler.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/QueryInProgress.java
- * tajo-core/src/test/java/org/apache/tajo/master/rm/TestTajoResourceManager.java
- * tajo-core/src/main/proto/ResourceTrackerProtocol.proto
- * tajo-core/src/main/java/org/apache/tajo/master/event/SubQueryContainerAllocationEvent.java
- * tajo-core/src/main/java/org/apache/tajo/master/rm/TajoWorkerContainer.java
- * tajo-core/src/main/java/org/apache/tajo/master/TajoContainerProxy.java
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoRecords.java
- * tajo-core/src/main/java/org/apache/tajo/worker/AbstractResourceAllocator.java
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoContainerId.java
- * tajo-core/src/main/proto/TajoWorkerProtocol.proto
- * tajo-core/src/main/java/org/apache/tajo/worker/TaskRunner.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/SubQuery.java
- * tajo-storage/src/test/java/org/apache/tajo/storage/s3/SmallBlockS3FileSystem.java
- * tajo-core/src/main/proto/TajoMasterProtocol.proto
- * tajo-core/src/main/java/org/apache/tajo/worker/ResourceAllocator.java
- * tajo-storage/src/main/java/org/apache/tajo/storage/StorageManager.java
- * tajo-core/src/main/proto/QueryMasterProtocol.proto
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoRecordFactorv.java
- * tajo-core/src/main/java/org/apache/tajo/master/LaunchTaskRunnersEvent.java
- * tajo-storage/src/test/java/org/apache/tajo/storage/TestFileSystems.java
- * tajo-core/src/main/proto/ContainerProtocol.proto
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoConverterUtils.java
- * tajo-core/src/main/java/org/apache/tajo/master/TaskRunnerGroupEvent.java
- * tajo-core/src/main/java/org/apache/tajo/master/TajoMasterService.java
- $*\ tajo-core/src/main/java/org/apache/tajo/master/container/TajoRecordFactoryProvider.java$
- 7. **hudson:** FAILURE: Integrated in Tajo-master-CODEGEN-build #106 (See [https://builds.apache.org/job/Tajo-master-CODEGEN-build/106/])

TAJO-1166: S3 related storage causes compilation error in Hadoop 2.6.0-SNAPSHOT. (jaehwa) (blrunner: rev 3d485ecb0112af12258a5a2bdc4a400b8df4fae8)

- * tajo-core/pom.xml
- * tajo-core/src/main/java/org/apache/tajo/worker/TajoResourceAllocator.java
- * tajo-core/src/main/java/org/apache/tajo/master/event/SubQueryContainerAllocationEvent.java
- * tajo-core/src/main/java/org/apache/tajo/master/TaskRunnerGroupEvent.java
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoContainer.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/QueryInProgress.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/QueryUnitAttempt.java
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoRecordFactory.java
- * tajo-core/src/main/java/org/apache/tajo/master/event/QueryUnitAttemptScheduleEvent.java
- * tajo-core/src/main/java/org/apache/tajo/worker/AbstractResourceAllocator.java
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoContainerId.java

- $*\ tajo-core/src/main/java/org/apache/tajo/master/container/impl/pb/TajoContainerIdPBImpl.java/org/apache/tajo/master/container/impl/pb/TajoContainerIdPBImpl.java/org/apache/tajo/master/container/impl/pb/TajoContainerIdPBImpl.java/org/apache/tajo/master/container/impl/pb/TajoContainerIdPBImpl.java/org/apache/tajo/master/container/impl/pb/TajoContainerIdPBImpl.java/org/apache/tajo/master/container/impl/pb/TajoContainerIdPBImpl.java/org/apache/tajo/master/container/impl/pb/TajoContainerIdPBImpl.java/org/apache/tajo/master/container/impl/pb/TajoContainerIdPBImpl.java/org/apache/tajo/master/container/impl/pb/TajoContainerIdPBImpl.java/org/apache/tajo/master/container/impl/pb/TajoContainerIdPBImpl.java/org/apache/tajo/master/container/impl/pb/TajoContainer/impl/p$
- * tajo-storage/src/test/java/org/apache/tajo/storage/s3/S3OutputStream.java
- * tajo-core/src/main/java/org/apache/tajo/master/rm/TajoWorkerContainerId.java
- * tajo-core/src/main/proto/ContainerProtocol.proto
- * tajo-storage/src/test/java/org/apache/tajo/storage/s3/InMemoryFileSystemStore.java
- * tajo-core/src/main/proto/TajoWorkerProtocol.proto
- * tajo-core/src/main/java/org/apache/tajo/master/rm/TajoRMContext.java
- * tajo-core/src/main/java/org/apache/tajo/master/ContainerProxy.java
- $*\ tajo-core/src/main/proto/ResourceTrackerProtocol.proto$
- * CHANGES
- * tajo-core/src/main/java/org/apache/tajo/master/TajoContainerProxy.java
- * tajo-core/src/main/java/org/apache/tajo/master/event/TaskRequestEvent.java
- *~tajo-core/src/main/java/org/apache/tajo/master/rm/WorkerResourceManager.java
- * tajo-storage/src/test/java/org/apache/tajo/storage/s3/INode.java
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoConverterUtils.java
- * tajo-storage/src/main/java/org/apache/tajo/storage/StorageManager.java
- * tajo-core/src/main/proto/TajoMasterProtocol.proto
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/SubQuery.java
- * tajo-core/src/main/java/org/apache/tajo/worker/TaskRunner.java
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoRecordFactoryPBImpl.java
- * tajo-core/src/main/java/org/apache/tajo/worker/TaskRunnerHistory.java
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoRecords.java
- * tajo-core/src/main/java/org/apache/tajo/master/LazyTaskScheduler.java
- * tajo-core/src/main/java/org/apache/tajo/master/querymaster/QueryMasterManagerService.java
- * tajo-core/src/test/java/org/apache/tajo/master/rm/TestTajoResourceManager.java
- * tajo-core/src/main/java/org/apache/tajo/worker/ResourceAllocator.java
- * tajo-core/src/main/java/org/apache/tajo/master/DefaultTaskScheduler.java
- * tajo-core/src/main/java/org/apache/tajo/master/rm/TajoWorkerResourceManager.java
- * tajo-core/src/main/java/org/apache/tajo/master/TajoMasterService.java
- * tajo-core/src/main/java/org/apache/tajo/master/event/LocalTaskEvent.java
- * tajo-core/src/main/java/org/apache/tajo/master/event/TaskAttemptAssignedEvent.java
- * tajo-core/src/main/proto/QueryMasterProtocol.proto
- * tajo-storage/src/test/java/org/apache/tajo/storage/s3/SmallBlockS3FileSystem.java
- * tajo-core/src/main/java/org/apache/tajo/master/container/TajoRecordFactoryProvider.java
- * tajo-core/src/main/java/org/apache/tajo/master/rm/TajoWorkerContainer.java
- * tajo-core/src/main/java/org/apache/tajo/master/LaunchTaskRunnersEvent.java
- * tajo-storage/src/test/java/org/apache/tajo/storage/TestFileSystems.java

1.6 Pull requests

1.6.1 Pull request 262

Title: TAJO-1166: S3 related storage causes compilation error in Hadoop 2.6.0-SNAPSHOT

Author: blrunner Date: 2014-11-19 Status: closed Comments:

1. **blrunner** (2014-11-20): As I mentioned, I replaced S3FileSystem to LocalFileSystem for unit test. But in this case, we can't test split size because of result data size is less than HDFS default block size. So, I added "fs.local.block.size" to storage-site.xml for unit test. I found that this branch build had succeed on hadoop-2.5.1 and hadoop-2.6.0-SNAPSHOT.

- 2. **blrunner** (2014-11-20): For reference, I also tested some TPC-H queries on a real cluster. In addition, all test has passed successfully.
- 3. **jinossy** (2014-11-27): @blrunner Could you add comment to record that we borrow this class from YARN? It would be useful for other guys to maintain the code in the future.
- 4. blrunner (2014-11-27): Hi @jinossy

Thanks for your review. I added a comment to indicate the source for yarn and I fixed a few document bugs.

5. **jinossy** (2014-11-27): +1 Looks good to me. Ship it!

1.6.2 Pull request 260

Title: TAJO-1166: S3 related storage causes compilation error in Hadoop 2.6.0-SNAPSHOT

Author: blrunner Date: 2014-11-19 Status: closed Comments:

1. **blrunner** (2014-11-19): I found that commit logs are mixed with another patch. I'll create another request.