

Source Code

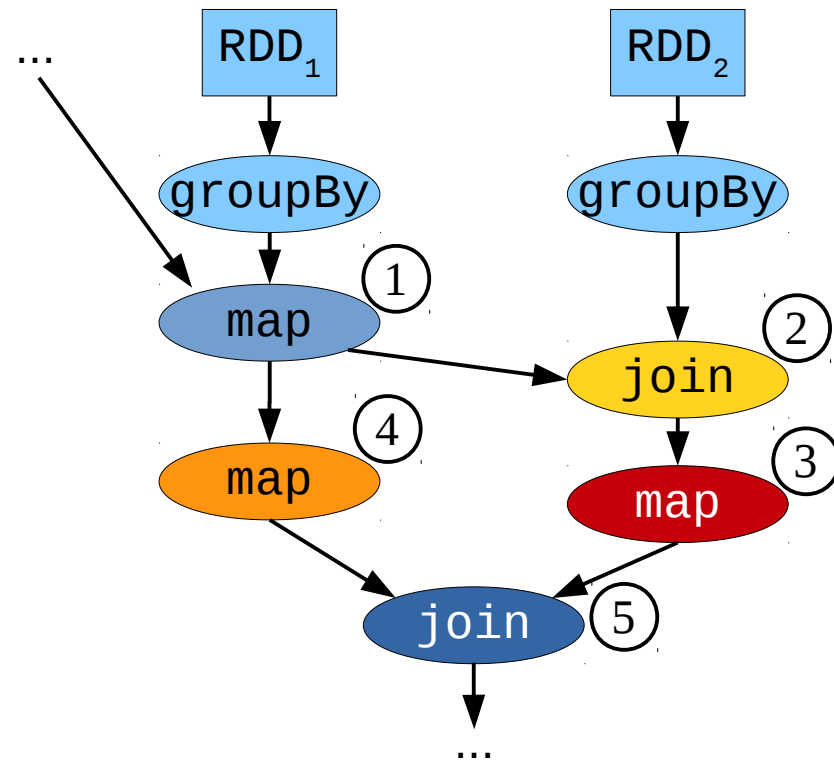
ALSApplication.scala:

```
val als = new ALS()  
  .setMaxIter(50)  
  .setRegParam(0.01)  
  .setUserCol("userId")  
  .setItemCol("movieId")  
  .setRatingCol("rating")  
val model = als.train(trainingData)  
...
```

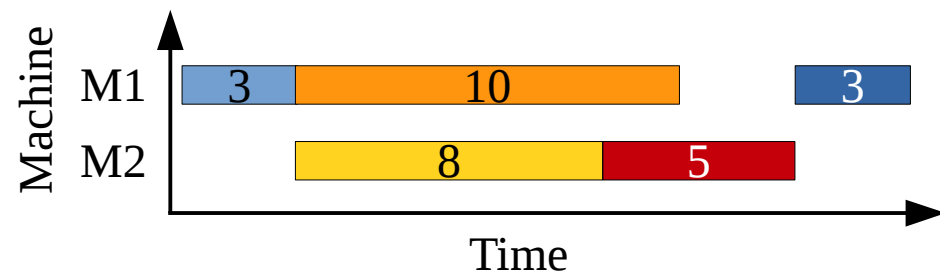
ALS.scala:

```
...  
val RDD1 = loadFromHdfs(matrixA)  
val RDD2 = loadFromHdfs(matrixB)  
val input1 =  
  RDD1.groupBy(..).map(..)  
val input2 = RDD2.groupBy(..)  
  
val output1 = input1.map(..)  
val output2 =  
  input2.join(input1).map(..)  
  
val result = output1.join(output2)  
...
```

Data Flow Graph



Schedule



Causal Profile

