Mapreduce Program Variations

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Mapreduce Practicals

Changing the number of Reducers to 2

Inside your Main file we need to add below property


```
job.setNumReduceTasks(2)
```

There should be 2 part files in the output folder.

Changing the number of Reducers to 2

By default system defined hash partitioning function will come into play for dividing the keys across the reducers.

The hash function is consistent. Similar keys go to the same reducer.

Customizing the partitioning logic

Write your own custom Partitioner class.

We need to mention below configurations in main

job.setNumReduceTasks(2)

job.setPartitionerClass(CustomPartitioner.class)

Changing the number of reducers to 0

Inside your Main file we need to add below property

job.setNumReduceTasks(0)

Only mappers will work. No Reducer.

Number of output files depends on number of mappers. If your input file is 500 mb then there will be 4 output files.

Introducing a combiner

Combiner is used to do local aggregation on mapper machines.

You can have your reducer code as your combiner code also.

In Main class we need to set below property

job.setCombinerClass(Reduce.java)

Introducing a custom combiner

We need to write our own combiner class.

In Main class we need to set below property

job.setCombinerClass(CustomCombiner.java)

What have we learnt?

1. Changing number of Reducers (hash partitioner)
2. Using our own custom partitioning logic
3. Introducing reducer class as combiner class
4. Introduction custom combiner class

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