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bigdata@bigdata-VirtualBox:~/Desktop$ javac -cp $HADOOP_CLASSPATH
solution3.java
bigdata@bigdata-VirtualBox:~/Desktop$ jar cvf solution3.jar
solution3*.classadded manifest
adding: solution3.class(in = 1470) (out= 800)(deflated 45%)
adding: solution3$IntMinMaxSumAvgReducer.class(in = 2010) (out=
897)(deflated 55%)
adding: solution3$TokenizerMapper.class(in = 1836) (out= 799)(deflated
56%)
bigdata@bigdata-VirtualBox:~/Desktop$ $HADOOP_HOME/bin/hadoop jar
/home/bigdata/Desktop/solution3.jar solution3 task3.txt task3output
21/10/15 01:38:37 INFO client.RMProxy: Connecting to ResourceManager at
bigdata-VirtualBox/10.0.2.15:8032
21/10/15 01:38:38 WARN mapreduce.JobResourceUploader: Hadoop command-line
option parsing not performed. Implement the Tool interface and execute
your application with ToolRunner to remedy this.
21/10/15 01:38:38 INFO input.FileInputFormat: Total input paths to
process : 1
21/10/15 01:38:38 INFO mapreduce.JobSubmitter: number of splits:1
21/10/15 01:38:38 INFO mapreduce.JobSubmitter: Submitting tokens for job:
job_1633958939443_0044
21/10/15 01:38:38 INFO impl.YarnClientImpl: Submitted application
application_1633958939443_0044
21/10/15 01:38:38 INFO mapreduce.Job: The url to track the job:
http://bigdata-VirtualBox:8088/proxy/application_1633958939443_0044/
21/10/15 01:38:38 INFO mapreduce.Job: Running job: job_1633958939443_0044
21/10/15 01:38:42 INFO mapreduce.Job: Job job_1633958939443_0044 running
in uber mode : false
21/10/15 01:38:42 INFO mapreduce.Job: map 0% reduce 0%
21/10/15 01:38:46 INFO mapreduce.Job: map 100% reduce 0%
21/10/15 01:38:50 INFO mapreduce.Job: map 100% reduce 100%
21/10/15 01:38:50 INFO mapreduce.Job: Job job_1633958939443_0044
completed successfully
21/10/15 01:38:50 INFO mapreduce.Job: Counters: 49
    File System Counters
        FILE: Number of bytes read=245
        FILE: Number of bytes written=237745
        FILE: Number of read operations=0
        FILE: Number of large read operations=0
        FILE: Number of write operations=0
        HDFS: Number of bytes read=278
        HDFS: Number of bytes written=170
        HDFS: Number of read operations=6
        HDFS: Number of large read operations=0
        HDFS: Number of write operations=2
    Job Counters
        Launched map tasks=1
        Launched reduce tasks=1
        Data-local map tasks=1
        Total time spent by all maps in occupied slots (ms)=1305
        Total time spent by all reduces in occupied slots (ms)=1405
```

Total time spent by all map tasks (ms)=1305
Total time spent by all reduce tasks (ms)=1405
Total vcore-milliseconds taken by all map tasks=1305
Total vcore-milliseconds taken by all reduce tasks=1405
Total megabyte-milliseconds taken by all map tasks=1336320
Total megabyte-milliseconds taken by all reduce tasks=1438720

Map-Reduce Framework

Map input records=20
Map output records=20
Map output bytes=199
Map output materialized bytes=245
Input split bytes=109
Combine input records=0
Combine output records=0
Reduce input groups=5
Reduce shuffle bytes=245
Reduce input records=20
Reduce output records=20
Spilled Records=40
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=61
CPU time spent (ms)=740
Physical memory (bytes) snapshot=442908672
Virtual memory (bytes) snapshot=3821383680
Total committed heap usage (bytes)=323485696

Shuffle Errors

BAD_ID=0
CONNECTION=0
IO_ERROR=0
WRONG_LENGTH=0
WRONG_MAP=0
WRONG_REDUCE=0

File Input Format Counters

Bytes Read=169

File Output Format Counters

Bytes Written=170

bigdata@bigdata-VirtualBox:~/Desktop\$ \$HADOOP_HOME/bin/hadoop fs -cat
task3output/part-r-00000

bolt 54
bolt 1
bolt 105
bolt 26
drill 40
drill 1
drill 57
drill 14
nail 5
nail 5
nail 5
nail 5
screw 89
screw 2

```
screw 274
screw 39
washer    56
washer    3
washer    80
washer    20
bigdata@bigdata-VirtualBox:~/Desktop$
```