

WordMedian

Command syntax- `hadoop jar <jar file> <driverclass> <input file path from hdfs> <output folder location>`

Command- `hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmedian /hadoop/input/word-file.txt /home/acadgild/Hadoop/output/WordMedian`

```
acadgild@localhost mapreduce]$ hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmedian /hadoop
input/word-file.txt /home/acadgild/hadoop/output/WordMedian
18/11/24 08:44:36 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platf
rm... using builtin-java classes where applicable
18/11/24 08:44:37 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/11/24 08:44:38 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not perf
rmed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
18/11/24 08:44:39 INFO input.FileInputFormat: Total input paths to process : 1
18/11/24 08:44:39 INFO mapreduce.JobSubmitter: number of splits:1
18/11/24 08:44:39 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1543027126124_0002
18/11/24 08:44:40 INFO impl.YarnClientImpl: Submitted application application_1543027126124_0002
18/11/24 08:44:40 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/appli
ation_1543027126124_0002/
18/11/24 08:44:40 INFO mapreduce.Job: Running job: job_1543027126124_0002
18/11/24 08:44:53 INFO mapreduce.Job: Job job_1543027126124_0002 running in uber mode : false
18/11/24 08:44:53 INFO mapreduce.Job: map 0% reduce 0%
18/11/24 08:45:00 INFO mapreduce.Job: map 100% reduce 0%
18/11/24 08:45:09 INFO mapreduce.Job: map 100% reduce 100%
18/11/24 08:45:10 INFO mapreduce.Job: Job job_1543027126124_0002 completed successfully
```

Output

```
File Input Format Counters
  Bytes Read=275
File Output Format Counters
  Bytes Written=37
The median is: 4
You have new mail in /var/spool/mail/acadgild
```

Output file path-

```
[acadgild@localhost output]$ hdfs dfs -ls /home/acadgild/hadoop/output/WordMedia
n
18/11/24 08:55:30 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup 0 2018-11-24 08:45 /home/acadgild/ha
dooop/output/WordMedian/_SUCCESS
-rw-r--r-- 1 acadgild supergroup 37 2018-11-24 08:45 /home/acadgild/ha
dooop/output/WordMedian/part-r-00000
```

Word Mean

Command- `hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmean /hadoop/input/word-file.txt /home/acadgild/Hadoop/output/WordMean`

```

[acadgild@localhost mapreduce]$ hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordmean /hadoop/in
put/word-file.txt /home/acadgild/hadoop/output/WordMean
18/11/24 17:58:38 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platfo
rm... using builtin-java classes where applicable
18/11/24 17:58:40 INFO client.RMPProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/11/24 17:58:43 INFO input.FileInputFormat: Total input paths to process : 1
18/11/24 17:58:43 INFO mapreduce.JobSubmitter: number of splits:1
18/11/24 17:58:43 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1543027126124_0003
18/11/24 17:58:44 INFO impl.YarnClientImpl: Submitted application application_1543027126124_0003
18/11/24 17:58:44 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/applic
ation_1543027126124_0003/
18/11/24 17:58:44 INFO mapreduce.Job: Running job: job_1543027126124_0003
18/11/24 17:59:00 INFO mapreduce.Job: Job job_1543027126124_0003 running in uber mode : false
18/11/24 17:59:00 INFO mapreduce.Job: map 0% reduce 0%
18/11/24 17:59:10 INFO mapreduce.Job: map 100% reduce 0%
18/11/24 17:59:21 INFO mapreduce.Job: map 100% reduce 100%
18/11/24 17:59:22 INFO mapreduce.Job: Job job_1543027126124_0003 completed successfully

```

Output-

```

Physical memory (bytes) snapshot=290009000
Virtual memory (bytes) snapshot=4118216704
Total committed heap usage (bytes)=170004480

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=275
File Output Format Counters
Bytes Written=20
The mean is: 4.392156862745098
You have new mail in /var/spool/mail/acadgild

```

Output file location-

```

[acadgild@localhost output]$ hdfs dfs -ls /home/acadgild/hadoop/output/WordMean
18/11/24 18:07:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library
for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup 0 2018-11-24 17:59 /home/acadgild/had
oop/output/WordMean/ SUCCESS
-rw-r--r-- 1 acadgild supergroup 20 2018-11-24 17:59 /home/acadgild/had
oop/output/WordMean/part-r-00000
You have new mail in /var/spool/mail/acadgild

```

Word Standard Deviation

Command- `hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordstandarddeviation /hadoop/input/word-file.txt /home/acadgild/Hadoop/output/WordStandardDeviation`

```

You have new mail in /var/spool/mail/acadgild
[acadgild@localhost mapreduce]$ hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordstandarddeviati
on /hadoop/input/word-file.txt /home/acadgild/hadoop/output/WordStandardDeviation
18/11/24 18:11:39 WARN util.NativeCodeLoader: Unable to load native hadoop library for your platfo
rm... using builtin-java classes where applicable
18/11/24 18:11:41 INFO client.RMPProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/11/24 18:11:44 INFO input.FileInputFormat: Total input paths to process : 1
18/11/24 18:11:44 INFO mapreduce.JobSubmitter: number of splits:1
18/11/24 18:11:44 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1543027126124_0004
18/11/24 18:11:45 INFO impl.YarnClientImpl: Submitted application application_1543027126124_0004
18/11/24 18:11:45 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/applic
ation_1543027126124_0004/
18/11/24 18:11:45 INFO mapreduce.Job: Running job: job_1543027126124_0004
18/11/24 18:12:00 INFO mapreduce.Job: Job job_1543027126124_0004 running in uber mode : false
18/11/24 18:12:00 INFO mapreduce.Job: map 0% reduce 0%
18/11/24 18:12:10 INFO mapreduce.Job: map 100% reduce 0%
18/11/24 18:12:21 INFO mapreduce.Job: map 100% reduce 100%
18/11/24 18:12:22 INFO mapreduce.Job: Job job_1543027126124_0004 completed successfully
18/11/24 18:12:22 INFO mapreduce.Job: Counters: 49

```

Output-

```
total committed heap usage (bytes)
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=275
File Output Format Counters
Bytes Written=32
The standard deviation is: 2.0871073083506144
You have new mail in /var/spool/mail/acadgild
```

Output file location-

```
[acadgild@localhost output]$ hdfs dfs -ls /home/acadgild/hadoop/output/WordStandardDeviation
18/11/24 18:17:07 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r-- 1 acadgild supergroup 0 2018-11-24 18:12 /home/acadgild/hadoop/output/WordStandardDeviation/ SUCCESS
-rw-r--r-- 1 acadgild supergroup 32 2018-11-24 18:12 /home/acadgild/hadoop/output/WordStandardDeviation/part-r-00000
You have new mail in /var/spool/mail/acadgild
```