Problem Statement

Execute WordMedian, WordMean, WordStandardDeviation programs using 1hadoop-mapreduce-examples-2.9.0.jar file present in your AcadGild VM.

Create a text File containing N Number of Words in local File System.

Command: Vi wordcount.txt

Put the file to hdfs File System

Command:

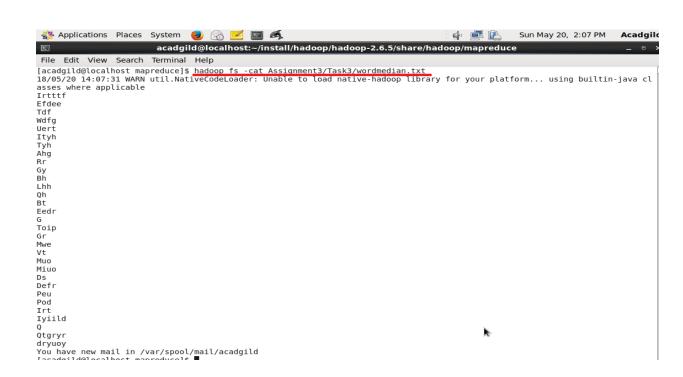
Hdfs dfs -put wordcount.txt /user/acadgiid/wordcount.txt

1. Word Median

Step1:

Copy the file wordcount.txt to wordmedian.txt

Command:



Step2:

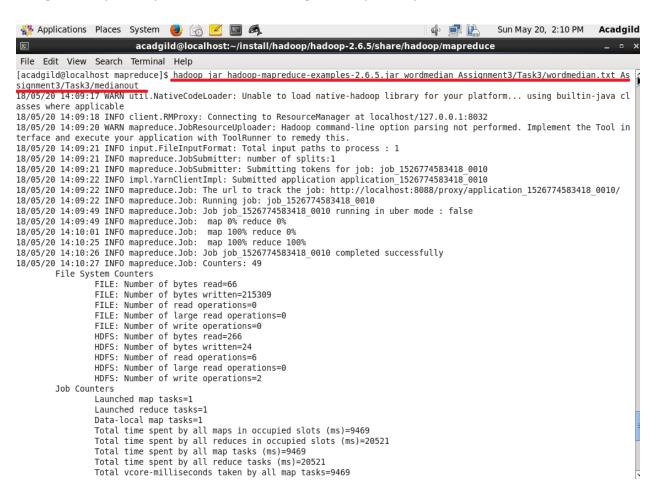
Execute the jar file for word median.

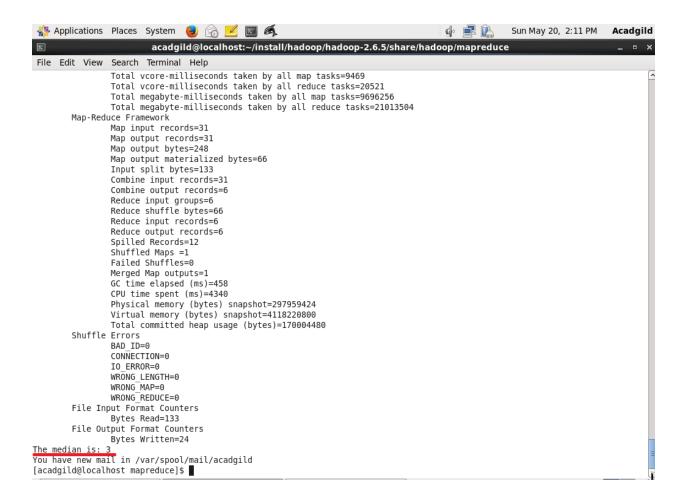
Syntax:

Hadoop jar <jarfilename> <mainclass name> <inputfile path>
<outputFilePath>

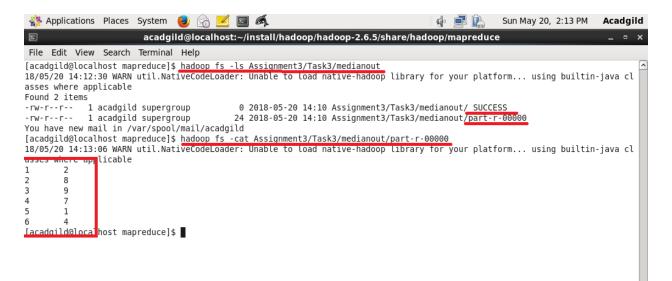
Command:

Hadoop jar Hadoop-mapreduce-examples-2.5.6.jar wordmedian Assignment3/Task3/wordmedian.txt Assignment3/Task3/medianout





Step 3: Display the contents of output File



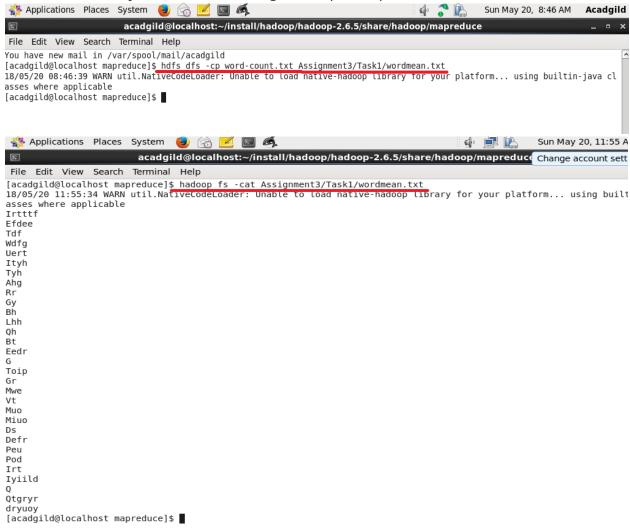
2. Word Mean

Step1:

Copy the file wordcount.txt to wordmean.txt

Command:

Hdfs dfs -cp wordcount.txt Assignment3/Task1/wordmean.txt



Step2:

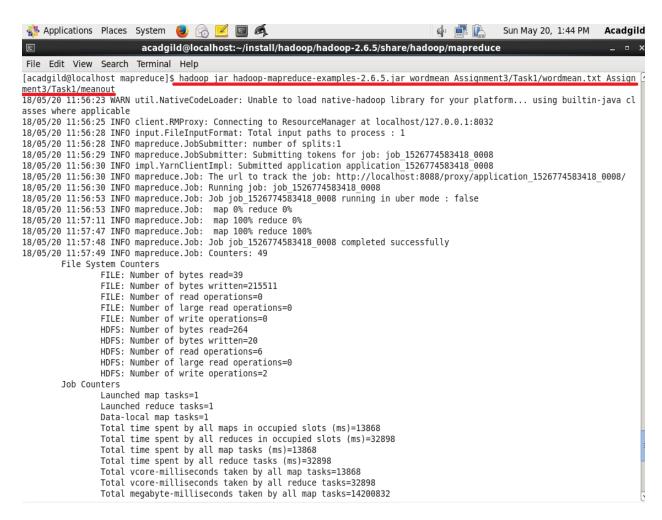
Execute the jar file for word mean.

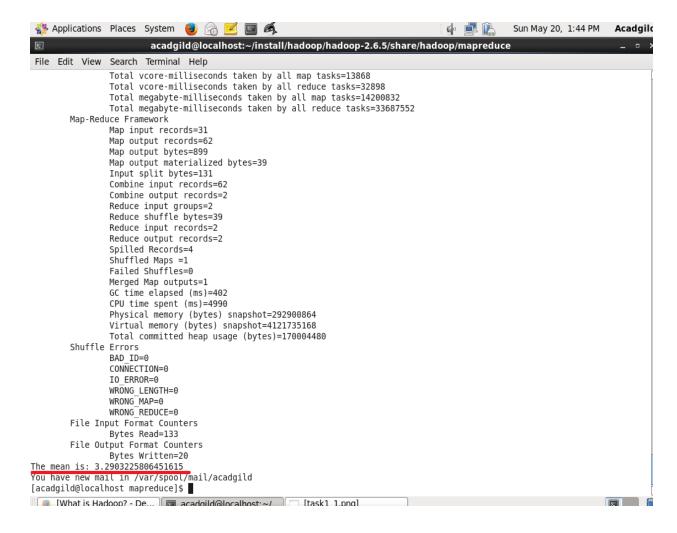
Syntax:

Hadoop jar <jarfilename> <mainclass name> <inputfile path>
<outputFilePath>

Command:

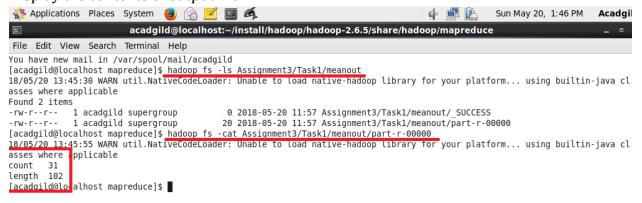
Hadoop jar Hadoop-mapreduce-examples-2.5.6.jar wordmean Assignment3/Task1/wordmean.txt Assignment3/Task1/meanout





Step3:

Display the contents of output file



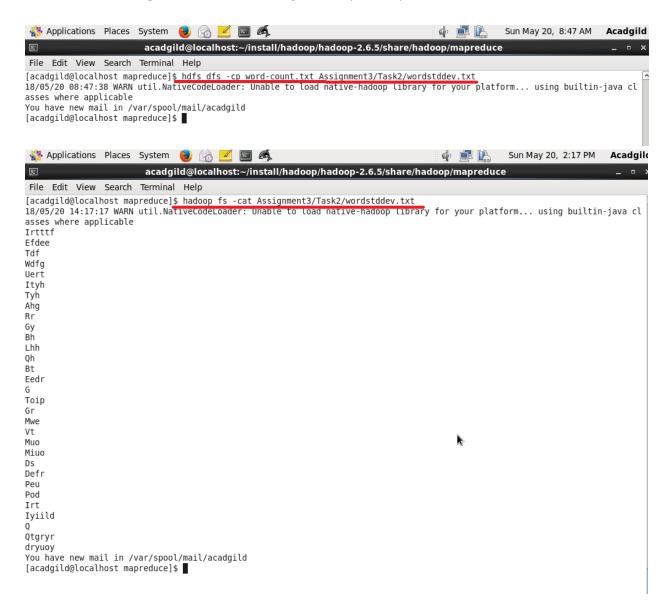
3. Word Standard Deviation

Step1:

Copy the file wordcount.txt to wordstddev.txt

Command:

Hdfs dfs -cp wordcount.txt Assignment3/Task2/wordstddev.txt



Step2:

Execute the jar file for word standard deviation.

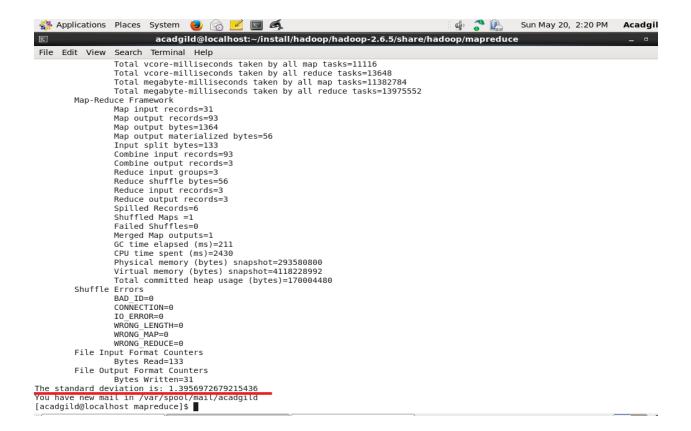
Syntax:

Hadoop jar <jarfilename> <mainclass name> <inputfile path>
<outputFilePath>

Command:

Hadoop jar Hadoop-mapreduce-examples-2.5.6.jar wordstandarddeviation Assignment3/Task2/wordstddev.txt Assignment3/Task2/stdout

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👫 Applications Places System 🍪 🙈 🗾 属
                                                                                                 Sun May 20, 2:20 PM Acadgild
                        acadgild@localhost:~/install/hadoop/hadoop-2.6.5/share/hadoop/mapreduce
File Edit View Search Terminal Help
[acadgild@localhost mapreduce]$ hadoop jar hadoop-mapreduce-examples-2.6.5.jar wordstandarddeviation Assignment3/Task2/wordst
ddev.txt Assignment3/Task2/stdout
18/05/20 14:18:53 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
18/05/20 14:18:54 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/05/20 14:18:57 INFO input.FileInputFormat: Total input paths to process : 1
18/05/20 14:18:57 INFO mapreduce.JobSubmitter: number of splits:1
18/05/20 14:18:58 INFO mapreduce.JobSubmitter: Submitting tokens for job: job 1526774583418 0011
18/05/20 14:18:58 INFO impl.YarnClientImpl: Submitted application application_1526774583418_0011
18/05/20 14:18:58 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1526774583418_0011/
18/05/20 14:18:58 INFO mapreduce.Job: Running job: job_1526774583418_0011
18/05/20 14:19:23 INFO mapreduce.Job: Job job 1526774583418\_0011 running in uber mode : false
18/05/20 14:19:24 INFO mapreduce.Job: map 0% reduce 0%
18/05/20 14:19:38 INFO mapreduce.Job: map 100% reduce 0%
18/05/20 14:19:55 INFO mapreduce.Job: map 100% reduce 100%
18/05/20 14:19:55 INFO mapreduce.Job: Job job_1526774583418_0011 completed successfully
18/05/20 14:19:56 INFO mapreduce.Job: Counters: 49
       File System Counters
               FILE: Number of bytes read=56
               FILE: Number of bytes written=215707
               FILE: Number of read operations=0
               FILE: Number of large read operations=0
               FILE: Number of write operations=0
               HDFS: Number of bytes read=266
               HDFS: Number of bytes written=31
               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)=11116
               Total time spent by all reduces in occupied slots (ms)=13648
               Total time spent by all map tasks (ms)=11116
               Total time spent by all reduce tasks (ms)=13648
               Total vcore-milliseconds taken by all map tasks=11116
               Total vcore-milliseconds taken by all reduce tasks=13648
               Total megabyte-milliseconds taken by all map tasks=11382784
```



Step3:

Display the contents of output file

