```
WordCount:
[acadgild@localhost mapreduce]$ hadoop jar hadoop-mapreduce-
examples-2.6.5.jar wordcount /hadoopdata1/word/word.txt
/hadoopdata1/wordout
18/06/16 12:08:34 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
18/06/16 12:08:35 INFO client.RMProxy: Connecting to
ResourceManager at localhost/127.0.0.1:8032
18/06/16 12:08:38 INFO input.FileInputFormat: Total input paths to
process : 1
18/06/16 12:08:38 INFO mapreduce.JobSubmitter: number of splits:1
18/06/16 12:08:38 INFO mapreduce.JobSubmitter: Submitting tokens
for job: job_1529123615612_0001
18/06/16 12:08:39 INFO impl.YarnClientImpl: Submitted application
application_1529123615612_0001
18/06/16 12:08:39 INFO mapreduce.Job: The url to track the job:
http://localhost:8088/proxy/application_1529123615612_0001/
18/06/16 12:08:39 INFO mapreduce.Job: Running job:
job_1529123615612_0001
18/06/16 12:08:57 INFO mapreduce.Job: Job job_1529123615612_0001
running in uber mode : false
18/06/16 12:08:57 INFO mapreduce.Job:  map 0% reduce 0%
18/06/16 12:09:06 INFO mapreduce.Job:  map 100% reduce 0%
18/06/16 12:09:16 INFO mapreduce.Job:  map 100% reduce 100%
18/06/16 12:09:17 INFO mapreduce.Job: Job job_1529123615612_0001
completed successfully
18/06/16 12:09:17 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=3189
                FILE: Number of bytes written=221739
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=3753
                HDFS: Number of bytes written=2237
                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)=6766
                Total time spent by all reduces in occupied slots
(ms)=7909
                Total time spent by all map tasks (ms)=6766
                Total time spent by all reduce tasks (ms)=7909
                Total vcore-milliseconds taken by all map tasks=6766
                Total vcore-milliseconds taken by all reduce tasks=7909
                Total megabyte-milliseconds taken by all map
tasks=6928384
                Total megabyte-milliseconds taken by all reduce
tasks=8098816
```

```
        Map-Reduce Framework
                Map input records=48
                Map output records=565
                Map output bytes=5808
                Map output materialized bytes=3189
                Input split bytes=112
                Combine input records=565
                Combine output records=238
                Reduce input groups=238
                Reduce shuffle bytes=3189
                Reduce input records=238
                Reduce output records=238
                Spilled Records=476
                Shuffled Maps =1
                Failed Shuffles=0
                Merged Map outputs=1
                GC time elapsed (ms)=227
                CPU time spent (ms)=2160
                Physical memory (bytes) snapshot=296714240
                Virtual memory (bytes) snapshot=4118224896
                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=3641
        File Output Format Counters
                Bytes Written=2237
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost mapreduce]$ hdfs dfs -ls /hadoopdata1
18/06/16 12:10:10 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
Found 3 items
drwxr-xr-x   - acadgild supergroup          0 2018-06-16 10:41
/hadoopdata1/hadoop
drwxr-xr-x   - acadgild supergroup          0 2018-06-16 11:59
/hadoopdata1/word
drwxr-xr-x   - acadgild supergroup          0 2018-06-16 12:09
/hadoopdata1/wordout
[acadgild@localhost mapreduce]$ hdfs dfs -ls /hadoopdata1/wordout
18/06/16 12:10:46 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 2018-06-16 12:09
/hadoopdata1/wordout/_SUCCESS
-rw-r--r--   1 acadgild supergroup       2237 2018-06-16 12:09
/hadoopdata1/wordout/part-r-00000
You have new mail in /var/spool/mail/acadgild
```

```
[acadgild@localhost mapreduce]$ hdfs dfs -cat
/hadoopdata1/wordout/part-r-00000
18/06/16 12:13:49 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
"Secure      1
"https://"),      1
(...) 2
(date)      4
(double-click    2
(site 1
(the  1
1     1
2     1
2.1   1
2.2   1
2.3   1
2.4   1
2.5   1
2.6   1
2.7   1
3     1
4     1
Advanced    1
Back, 1
Blog  1
Bypassing   1
CA    2
Certificate 2
Certificates.    1
Click 1
Connection  3
Contents    1
Corrupted   1
Distrust    1
Error 4
Failed"     1
Failed,     1
Firefox     2
For   1
Fx44  1
Go    1
How   2
If    2
In    2
Insecure    1
It    1
MOZILLA_PKIX_ERROR_ADDITIONAL_POLICY_CONSTRAINT_FAILED    1
More  2
Mozilla     1
Mozilla's   2
Program     2
Reporting   1
SEC_ERROR_EXPIRED_CERTIFICATE        1
```

```
SEC_ERROR_EXPIRED_ISSUER_CERTIFICATE      1
Secure      1
Security    1
Some  1
Symantec    1
TLS   1
Table 1
Taskbar)    2
Technical   2
The   15
This  2
To    1
Troubleshoot      1
URL   1
Unless      1
What  2
When  2
Windows     2
a     8
about 2
actions     1
adequately  1
affecting   1
also  2
an    3
and   9
are   4
article     2
article.    1
authorities 1
authority   2
available   2
be    7
because     2
before      1
begins      1
below:      1
by    1
cannot      1
case  2
certificate 19
certification     1
click 1
clock 4
code: 3
come  3
common      1
communicating     1
complied    1
connection  4
connects    1
contact     1
contains    1
correct     1
```

```
could 1
current     2
date  6
described   1
details     3
different   1
do      3
does  3
eavesdropper,     1
encounter   1
encryption  2
enough      1
enough,     1
error 9
error.      1
error?      2
errors      3
expired     3
expired.    1
fix   2
fixed 1
for   3
from  3
has   3
icon  2
identification,   1
identity    1
if    4
imposed     1
in    4
incorrect   1
incorrect,  2
indicates   2
inform      1
information 3
information,      1
instead     1
is    13
issuer      1
it    3
it.   1
know  1
list  1
message     2
message,    1
might 1
more  2
must  1
name) 1
need  1
not   12
occurs      1
occurs,     1
of    8
```

```
on      9
only    1
or      2
order   2
over    1
owners      2
owners.     1
page:   1
policies    1
policy      2
possible,   1
post,   1
presented   2
privacy.    1
problem.    3
problems    1
proceed     1
protect     1
publishes   1
reason      1
recommended 1
related     2
risk    1
safest      1
secure      4
secure.     1
see     4
self-signed 1
set     2
should      2
show    3
source      2
source.     1
stop    1
store   1
strong      2
such    1
support     2
system      2
system.     2
technical   1
text    2
that    8
the     37
their   1
them    1
thing   1
this    8
time    6
to      21
today's     2
troubleshoot        3
trusted     5
understand  1
```

```
unknown     1
until 3
upcoming    1
upon  1
useful      1
using 1
valid 5
validated   1
verify      1
visit 1
vulnerable  1
wait  1
warning     1
website     9
website's   2
website.    2
websites.   2
when  1
which 1
why   2
will  6
willing     1
with  3
with. 1
work  1
you   7
your  5
You have new mail in /var/spool/mail/acadgild
Wordmean:
[acadgild@localhost mapreduce]$ hadoop jar hadoop-mapreduce-
examples-2.6.5.jar wordmean /hadoopdata1/word/word.txt
/hadoopdata1/wordout1
18/06/16 12:15:43 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
18/06/16 12:15:44 INFO client.RMProxy: Connecting to
ResourceManager at localhost/127.0.0.1:8032
18/06/16 12:15:46 INFO input.FileInputFormat: Total input paths to
process : 1
18/06/16 12:15:47 INFO mapreduce.JobSubmitter: number of splits:1
18/06/16 12:15:47 INFO mapreduce.JobSubmitter: Submitting tokens
for job: job_1529123615612_0002
18/06/16 12:15:47 INFO impl.YarnClientImpl: Submitted application
application_1529123615612_0002
18/06/16 12:15:48 INFO mapreduce.Job: The url to track the job:
http://localhost:8088/proxy/application_1529123615612_0002/
18/06/16 12:15:48 INFO mapreduce.Job: Running job:
job_1529123615612_0002
18/06/16 12:16:00 INFO mapreduce.Job: Job job_1529123615612_0002
running in uber mode : false
18/06/16 12:16:00 INFO mapreduce.Job:  map 0% reduce 0%
18/06/16 12:16:09 INFO mapreduce.Job:  map 100% reduce 0%
18/06/16 12:16:18 INFO mapreduce.Job:  map 100% reduce 100%
```

```
18/06/16 12:16:19 INFO mapreduce.Job: Job job_1529123615612_0002
completed successfully
18/06/16 12:16:19 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=39
                FILE: Number of bytes written=215441
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=3753
                HDFS: Number of bytes written=22
                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)=6308
                Total time spent by all reduces in occupied slots
(ms)=7109
                Total time spent by all map tasks (ms)=6308
                Total time spent by all reduce tasks (ms)=7109
                Total vcore-milliseconds taken by all map tasks=6308
                Total vcore-milliseconds taken by all reduce tasks=7109
                Total megabyte-milliseconds taken by all map
tasks=6459392
                Total megabyte-milliseconds taken by all reduce
tasks=7279616
        Map-Reduce Framework
                Map input records=48
                Map output records=1130
                Map output bytes=16385
                Map output materialized bytes=39
                Input split bytes=112
                Combine input records=1130
                Combine output records=2
                Reduce input groups=2
                Reduce shuffle bytes=39
                Reduce input records=2
                Reduce output records=2
                Spilled Records=4
                Shuffled Maps =1
                Failed Shuffles=0
                Merged Map outputs=1
                GC time elapsed (ms)=232
                CPU time spent (ms)=1900
                Physical memory (bytes) snapshot=297168896
                Virtual memory (bytes) snapshot=4118228992
                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=3641
        File Output Format Counters
            Bytes Written=22
The mean is: 5.279646017699115
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost mapreduce]$ hdfs dfs -ls /hadoopdata1/wordout1
18/06/16 12:17:07 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 2018-06-16 12:16
/hadoopdata1/wordout1/_SUCCESS
-rw-r--r--   1 acadgild supergroup       22 2018-06-16 12:16
/hadoopdata1/wordout1/part-r-00000
[acadgild@localhost mapreduce]$ hdfs dfs -cat
/hadoopdata1/wordout1/part-r-0000018/06/16 12:17:27 WARN
util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
count 565
length     2983
You have new mail in /var/spool/mail/acadgild
Wordmedian:
[acadgild@localhost mapreduce]$ hadoop jar hadoop-mapreduce-
examples-2.6.5.jar wordmedian /hadoopdata1/word/word.txt
/hadoopdata1/wordout2
18/06/16 12:18:16 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
18/06/16 12:18:18 INFO client.RMProxy: Connecting to
ResourceManager at localhost/127.0.0.1:8032
18/06/16 12:18:20 WARN mapreduce.JobResourceUploader: Hadoop
command-line option parsing not performed. Implement the Tool
interface and execute your application with ToolRunner to remedy
this.
18/06/16 12:18:20 INFO input.FileInputFormat: Total input paths to
process : 1
18/06/16 12:18:20 INFO mapreduce.JobSubmitter: number of splits:1
18/06/16 12:18:21 INFO mapreduce.JobSubmitter: Submitting tokens
for job: job_1529123615612_0003
18/06/16 12:18:21 INFO impl.YarnClientImpl: Submitted application
application_1529123615612_0003
18/06/16 12:18:21 INFO mapreduce.Job: The url to track the job:
http://localhost:8088/proxy/application_1529123615612_0003/
18/06/16 12:18:21 INFO mapreduce.Job: Running job:
job_1529123615612_0003
18/06/16 12:18:33 INFO mapreduce.Job: Job job_1529123615612_0003
running in uber mode : false
18/06/16 12:18:33 INFO mapreduce.Job:  map 0% reduce 0%
18/06/16 12:18:42 INFO mapreduce.Job:  map 100% reduce 0%
18/06/16 12:18:52 INFO mapreduce.Job:  map 100% reduce 100%
```

```
18/06/16 12:18:52 INFO mapreduce.Job: Job job_1529123615612_0003
completed successfully
18/06/16 12:18:52 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=176
                FILE: Number of bytes written=215451
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=3753
                HDFS: Number of bytes written=88
                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)=6847
                Total time spent by all reduces in occupied slots
(ms)=6842
                Total time spent by all map tasks (ms)=6847
                Total time spent by all reduce tasks (ms)=6842
                Total vcore-milliseconds taken by all map tasks=6847
                Total vcore-milliseconds taken by all reduce tasks=6842
                Total megabyte-milliseconds taken by all map
tasks=7011328
                Total megabyte-milliseconds taken by all reduce
tasks=7006208
        Map-Reduce Framework
                Map input records=48
                Map output records=565
                Map output bytes=4520
                Map output materialized bytes=176
                Input split bytes=112
                Combine input records=565
                Combine output records=17
                Reduce input groups=17
                Reduce shuffle bytes=176
                Reduce input records=17
                Reduce output records=17
                Spilled Records=34
                Shuffled Maps =1
                Failed Shuffles=0
                Merged Map outputs=1
                GC time elapsed (ms)=207
                CPU time spent (ms)=1890
                Physical memory (bytes) snapshot=295038976
                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=3641
      File Output Format Counters
            Bytes Written=88
```
The median is: 4
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost mapreduce]$ hdfs dfs -cat
/hadoopdata1/wordout2/part-r-0000018/06/16 12:19:28 WARN
util.NativeCodeLoader: Unable to load native-hadoop library for
your platform... using builtin-java classes where applicable
```
1      12
2      87
3      113
4      90
5      52
6      41
7      61
8      24
9      28
10     14
11     27
12     6
13     6
15     1
29     1
36     1
54     1
```
[acadgild@localhost mapreduce]$

STANDARDDEVIATION:

[acadgild@localhost mapreduce]$ hadoop jar hadoop-mapreduce-
examples-2.6.5.jar wordstandarddeviation /hadoopdata1/word/word.txt
/hadoopdata1/wordout4
18/06/16 12:34:47 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
18/06/16 12:34:48 INFO client.RMProxy: Connecting to
ResourceManager at localhost/127.0.0.1:8032
18/06/16 12:34:51 INFO input.FileInputFormat: Total input paths to
process : 1
18/06/16 12:34:51 INFO mapreduce.JobSubmitter: number of splits:1
18/06/16 12:34:51 INFO mapreduce.JobSubmitter: Submitting tokens
for job: job_1529123615612_0005
18/06/16 12:34:52 INFO impl.YarnClientImpl: Submitted application
application_1529123615612_0005
18/06/16 12:34:52 INFO mapreduce.Job: The url to track the job:
http://localhost:8088/proxy/application_1529123615612_0005/
18/06/16 12:34:52 INFO mapreduce.Job: Running job:
job_1529123615612_0005

```
18/06/16 12:35:04 INFO mapreduce.Job: Job job_1529123615612_0005
running in uber mode : false
18/06/16 12:35:04 INFO mapreduce.Job:  map 0% reduce 0%
18/06/16 12:35:13 INFO mapreduce.Job:  map 100% reduce 0%
18/06/16 12:35:24 INFO mapreduce.Job:  map 100% reduce 100%
18/06/16 12:35:24 INFO mapreduce.Job: Job job_1529123615612_0005
completed successfully
18/06/16 12:35:25 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=56
                FILE: Number of bytes written=215635
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=3753
                HDFS: Number of bytes written=35
                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)=6939
                Total time spent by all reduces in occupied slots
(ms)=8110
                Total time spent by all map tasks (ms)=6939
                Total time spent by all reduce tasks (ms)=8110
                Total vcore-milliseconds taken by all map tasks=6939
                Total vcore-milliseconds taken by all reduce tasks=8110
                Total megabyte-milliseconds taken by all map
tasks=7105536
                Total megabyte-milliseconds taken by all reduce
tasks=8304640
        Map-Reduce Framework
                Map input records=48
                Map output records=1695
                Map output bytes=24860
                Map output materialized bytes=56
                Input split bytes=112
                Combine input records=1695
                Combine output records=3
                Reduce input groups=3
                Reduce shuffle bytes=56
                Reduce input records=3
                Reduce output records=3
                Spilled Records=6
                Shuffled Maps =1
                Failed Shuffles=0
                Merged Map outputs=1
                GC time elapsed (ms)=228
                CPU time spent (ms)=2300
                Physical memory (bytes) snapshot=298651648
                Virtual memory (bytes) snapshot=4118224896
```

```
               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=3641
       File Output Format Counters
               Bytes Written=35
The standard deviation is: 3.869512312735721
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost mapreduce]$ hdfs dfs -ls/hadoopdata1/wordout4
-ls/hadoopdata1/wordout4: Unknown command
[acadgild@localhost mapreduce]$ hdfs dfs -ls /hadoopdata1/wordout4
18/06/16 12:36:09 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 2018-06-16 12:35
/hadoopdata1/wordout4/_SUCCESS
-rw-r--r--   1 acadgild supergroup       35 2018-06-16 12:35
/hadoopdata1/wordout4/part-r-00000
[acadgild@localhost mapreduce]$ hdfs dfs -ls
/hadoopdata1/wordout4/part-r-00000
18/06/16 12:36:28 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
-rw-r--r--   1 acadgild supergroup       35 2018-06-16 12:35
/hadoopdata1/wordout4/part-r-00000
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost mapreduce]$ hdfs dfs -cat
/hadoopdata1/wordout4/part-r-00000
18/06/16 12:37:18 WARN util.NativeCodeLoader: Unable to load
native-hadoop library for your platform... using builtin-java
classes where applicable
count 565
length     2983
square     24209
[acadgild@localhost mapreduce]$
```