# MAP REDUCE IN WEATHER DATASET

**TERMINAL:**

**hadoop@vinoth-ubuntu:~$ hadoop version**
Hadoop 3.3.6
Source code repository https://github.com/apache/hadoop.git -r
1be78238728da9266a4f88195058f08fd012bf9c
Compiled by ubuntu on 2023-06-18T08:22Z
Compiled on platform linux-x86_64
Compiled with protoc 3.7.1
From source with checksum 5652179ad55f76cb287d9c633bb53bbd
This command was run using
/home/hadoop/hadoop/share/hadoop/common/hadoop-common-3.3.6.jar
**hadoop@vinoth-ubuntu:~$ export HADOOP_CLASSPATH=$(hadoop classpath)**
**hadoop@vinoth-ubuntu:~$ echo $HADOOP_CLASSPATH**
/home/hadoop/hadoop/etc/hadoop:/home/hadoop/hadoop/share/hadoop/common/lib/*:/home/hadoop/hadoop/share/hadoop/common/*:/home/hadoop/hadoop/share/hadoop/hdfs:/home/hadoop/hadoop/share/hadoop/hdfs/lib/*:/home/hadoop/hadoop/share/hadoop/hdfs/*:/home/hadoop/hadoop/share/hadoop/mapreduce/*:/home/hadoop/hadoop/share/hadoop/yarn:/home/hadoop/hadoop/share/hadoop/yarn/lib/*:/home/hadoop/hadoop/share/hadoop/yarn/*
**hadoop@vinoth-ubuntu:~$ hadoop fs -mkdir /WeatherTutorial**
**hadoop@vinoth-ubuntu:~$ hadoop fs -mkdir /WeatherTutorial/Input**
**hadoop@vinoth-ubuntu:~$ hadoop fs -put '/home/hadoop/Documents/WeatherExpt/input_data/weatherinput.txt' /WeatherTutorial/Input**
**hadoop@vinoth-ubuntu:~$ cd home /hadoop/Documents/WeatherExpt**
bash: cd: too many arguments
**hadoop@vinoth-ubuntu:~$ cd home/hadoop/Documents/WeatherExpt**
**bash: cd: home/hadoop/Documents/WeatherExpt: No such file or directory**
**hadoop@vinoth-ubuntu:~$ cd home/hadoop/Documents/WeatherExpt/**
**bash: cd: home/hadoop/Documents/WeatherExpt/: No such file or directory**
**hadoop@vinoth-ubuntu:~$ cd /home/hadoop/Documents/WeatherExpt**
**hadoop@vinoth-ubuntu:~/Documents/WeatherExpt$ javac -classpath $HADOOP_CLASSPATH -d '/home/hadoop/Documents/WeatherExpt/tutorial_classes' '/home/hadoop/Documents/WeatherExpt/weather program.java'**
/home/hadoop/Documents/WeatherExpt/weather program.java:18: error: class
MyMaxMin is public, should be declared in a file named MyMaxMin.java
public class MyMaxMin {
        ^

Note: /home/hadoop/Documents/WeatherExpt/weather program.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
1 error
hadoop@vinoth-ubuntu:~/Documents/WeatherExpt$ javac -classpath $HADOOP_CLASSPATH -d '/home/hadoop/Documents/WeatherExpt/tutorial_classes' '/home/hadoop/Documents/WeatherExpt/WeatherProg.java'
/home/hadoop/Documents/WeatherExpt/WeatherProg.java:121: error: cannot find symbol
        job.setJarByClass(MyMaxMin.class);  //Assigning the driver class name
                          ^
  symbol:   class MyMaxMin
  location: class WeatherProg
Note: /home/hadoop/Documents/WeatherExpt/WeatherProg.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
1 error
hadoop@vinoth-ubuntu:~/Documents/WeatherExpt$ javac -classpath $HADOOP_CLASSPATH -d '/home/hadoop/Documents/WeatherExpt/tutorial_classes' '/home/hadoop/Documents/WeatherExpt/MyMaxMin.java'
Note: /home/hadoop/Documents/WeatherExpt/MyMaxMin.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
hadoop@vinoth-ubuntu:~/Documents/WeatherExpt$ javac -classpath $HADOOP_CLASSPATH -d '/home/hadoop/Documents/WeatherExpt/tutorial_classes' '/home/hadoop/Documents/WeatherExpt/MyMaxMin.java' -Xlint:unchecked
Note: /home/hadoop/Documents/WeatherExpt/MyMaxMin.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
hadoop@vinoth-ubuntu:~/Documents/WeatherExpt$ javac -classpath $HADOOP_CLASSPATH -d '/home/hadoop/Documents/WeatherExpt/tutorial_classes' '/home/hadoop/Documents/WeatherExpt/MyMaxMin.java'-Xlint:unchecked
javac: invalid flag: /home/hadoop/Documents/WeatherExpt/MyMaxMin.java-Xlint:unchecked
Usage: javac <options> <source files>
use -help for a list of possible options
hadoop@vinoth-ubuntu:~/Documents/WeatherExpt$ javac -classpath $HADOOP_CLASSPATH -d '/home/hadoop/Documents/WeatherExpt/tutorial_classes' '/home/hadoop/Documents/WeatherExpt/MyMaxMin.java' -Xlint:unchecked

Note: /home/hadoop/Documents/WeatherExpt/MyMaxMin.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
hadoop@vinoth-ubuntu:~/Documents/WeatherExpt$ jar -cvf secondTutorial.jar -C tutorial_classes/ .
added manifest
adding: MyMaxMin$MaxTemperatureReducer.class(in = 1283) (out= 533)(deflated 58%)
adding: MyMaxMin$MaxTemperatureMapper.class(in = 2029) (out= 885)(deflated 56%)
adding: MyMaxMin.class(in = 1836) (out= 928)(deflated 49%)
hadoop@vinoth-ubuntu:~/Documents/WeatherExpt$ hadoop jar '/home/hadoop/Documents/WeatherExpt/secondTutorial.jar' MyMinMax /WeatherTutorial/Input WeatherTutorial/Output
Exception in thread "main" java.lang.ClassNotFoundException: MyMinMax
        at java.net.URLClassLoader.findClass(URLClassLoader.java:387)
        at java.lang.ClassLoader.loadClass(ClassLoader.java:418)
        at java.lang.ClassLoader.loadClass(ClassLoader.java:351)
        at java.lang.Class.forName0(Native Method)
        at java.lang.Class.forName(Class.java:348)
        at org.apache.hadoop.util.RunJar.run(RunJar.java:321)
        at org.apache.hadoop.util.RunJar.main(RunJar.java:241)
**hadoop@vinoth-ubuntu:~/Documents/WeatherExpt$ hadoop jar '/home/hadoop/Documents/WeatherExpt/secondTutorial.jar' MyMaxMin /WeatherTutorial/Input WeatherTutorial/Output**
2024-09-12 20:17:43,202 INFO impl.MetricsConfig: Loaded properties from hadoop-metrics2.properties
2024-09-12 20:17:43,387 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).
2024-09-12 20:17:43,387 INFO impl.MetricsSystemImpl: JobTracker metrics system started
2024-09-12 20:17:43,459 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
2024-09-12 20:17:43,654 INFO input.FileInputFormat: Total input files to process : 1
2024-09-12 20:17:43,694 INFO mapreduce.JobSubmitter: number of splits:1
2024-09-12 20:17:43,803 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local1070794341_0001
2024-09-12 20:17:43,803 INFO mapreduce.JobSubmitter: Executing with tokens: []
2024-09-12 20:17:44,001 INFO mapreduce.Job: The url to track the job: http://localhost:8080/

2024-09-12 20:17:44,002 INFO mapreduce.Job: Running job: job_local1070794341_0001
2024-09-12 20:17:44,008 INFO mapred.LocalJobRunner: OutputCommitter set in config null
2024-09-12 20:17:44,039 INFO output.PathOutputCommitterFactory: No output committer factory defined, defaulting to FileOutputCommitterFactory
2024-09-12 20:17:44,041 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2024-09-12 20:17:44,041 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup _temporary folders under output directory:false, ignore cleanup failures: false
2024-09-12 20:17:44,042 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapreduce.lib.output.FileOutputCommitter
2024-09-12 20:17:44,125 INFO mapred.LocalJobRunner: Waiting for map tasks
2024-09-12 20:17:44,126 INFO mapred.LocalJobRunner: Starting task: attempt_local1070794341_0001_m_000000_0
2024-09-12 20:17:44,167 INFO output.PathOutputCommitterFactory: No output committer factory defined, defaulting to FileOutputCommitterFactory
2024-09-12 20:17:44,167 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2024-09-12 20:17:44,167 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup _temporary folders under output directory:false, ignore cleanup failures: false
2024-09-12 20:17:44,225 INFO mapred.Task:  Using ResourceCalculatorProcessTree : [ ]
2024-09-12 20:17:44,231 INFO mapred.MapTask: Processing split: hdfs://localhost:9000/WeatherTutorial/Input/weatherinput.txt:0+79205
2024-09-12 20:17:44,626 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(104857584)
2024-09-12 20:17:44,627 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100
2024-09-12 20:17:44,627 INFO mapred.MapTask: soft limit at 83886080
2024-09-12 20:17:44,627 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600
2024-09-12 20:17:44,627 INFO mapred.MapTask: kvstart = 26214396; length = 6553600
2024-09-12 20:17:44,640 INFO mapred.MapTask: Map output collector class = org.apache.hadoop.mapred.MapTask$MapOutputBuffer
2024-09-12 20:17:44,891 INFO mapred.LocalJobRunner:
2024-09-12 20:17:44,895 INFO mapred.MapTask: Starting flush of map output
2024-09-12 20:17:44,895 INFO mapred.MapTask: Spilling map output
2024-09-12 20:17:44,895 INFO mapred.MapTask: bufstart = 0; bufend = 8489; bufvoid = 104857600
2024-09-12 20:17:44,895 INFO mapred.MapTask: kvstart = 26214396(104857584); kvend = 26212940(104851760); length = 1457/6553600

2024-09-12 20:17:44,931 INFO mapred.MapTask: Finished spill 0
2024-09-12 20:17:45,012 INFO mapred.Task: Task:attempt_local1070794341_0001_m_000000_0 is done. And is in the process of committing
2024-09-12 20:17:45,017 INFO mapreduce.Job: Job job_local1070794341_0001 running in uber mode : false
2024-09-12 20:17:45,019 INFO mapreduce.Job:  map 0% reduce 0%
2024-09-12 20:17:45,023 INFO mapred.LocalJobRunner: map
2024-09-12 20:17:45,025 INFO mapred.Task: Task 'attempt_local1070794341_0001_m_000000_0' done.
2024-09-12 20:17:45,069 INFO mapred.Task: Final Counters for attempt_local1070794341_0001_m_000000_0: Counters: 23
        File System Counters
        FILE: Number of bytes read=3314
        FILE: Number of bytes written=654149
        FILE: Number of read operations=0
        FILE: Number of large read operations=0
        FILE: Number of write operations=0
        HDFS: Number of bytes read=79205
        HDFS: Number of bytes written=0
        HDFS: Number of read operations=5
        HDFS: Number of large read operations=0
        HDFS: Number of write operations=2
        HDFS: Number of bytes read erasure-coded=0
        Map-Reduce Framework
        Map input records=365
        Map output records=365
        Map output bytes=8489
        Map output materialized bytes=9225
        Input split bytes=125
        Combine input records=0
        Spilled Records=365
        Failed Shuffles=0
        Merged Map outputs=0
        GC time elapsed (ms)=17
        Total committed heap usage (bytes)=379060224
        File Input Format Counters
        Bytes Read=79205
2024-09-12 20:17:45,074 INFO mapred.LocalJobRunner: Finishing task: attempt_local1070794341_0001_m_000000_0
2024-09-12 20:17:45,076 INFO mapred.LocalJobRunner: map task executor complete.
2024-09-12 20:17:45,097 INFO mapred.LocalJobRunner: Waiting for reduce tasks

2024-09-12 20:17:45,100 INFO mapred.LocalJobRunner: Starting task: attempt_local1070794341_0001_r_000000_0
2024-09-12 20:17:45,147 INFO output.PathOutputCommitterFactory: No output committer factory defined, defaulting to FileOutputCommitterFactory
2024-09-12 20:17:45,147 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2024-09-12 20:17:45,147 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup _temporary folders under output directory:false, ignore cleanup failures: false
2024-09-12 20:17:45,149 INFO mapred.Task:  Using ResourceCalculatorProcessTree : [ ]
2024-09-12 20:17:45,158 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@38c3cf46
2024-09-12 20:17:45,171 WARN impl.MetricsSystemImpl: JobTracker metrics system already initialized!
2024-09-12 20:17:45,239 INFO reduce.MergeManagerImpl: MergerManager: memoryLimit=1265788544, maxSingleShuffleLimit=316447136, mergeThreshold=835420480, ioSortFactor=10, memToMemMergeOutputsThreshold=10
2024-09-12 20:17:45,253 INFO reduce.EventFetcher: attempt_local1070794341_0001_r_000000_0 Thread started: EventFetcher for fetching Map Completion Events
2024-09-12 20:17:45,343 INFO reduce.LocalFetcher: localfetcher#1 about to shuffle output of map attempt_local1070794341_0001_m_000000_0 decomp: 9221 len: 9225 to MEMORY
2024-09-12 20:17:45,347 INFO reduce.InMemoryMapOutput: Read 9221 bytes from map-output for attempt_local1070794341_0001_m_000000_0
2024-09-12 20:17:45,350 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 9221, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory ->9221
2024-09-12 20:17:45,360 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning
2024-09-12 20:17:45,361 INFO mapred.LocalJobRunner: 1 / 1 copied.
2024-09-12 20:17:45,361 INFO reduce.MergeManagerImpl: finalMerge called with 1 in-memory map-outputs and 0 on-disk map-outputs
2024-09-12 20:17:45,396 INFO mapred.Merger: Merging 1 sorted segments
2024-09-12 20:17:45,396 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 9201 bytes
2024-09-12 20:17:45,409 INFO reduce.MergeManagerImpl: Merged 1 segments, 9221 bytes to disk to satisfy reduce memory limit
2024-09-12 20:17:45,409 INFO reduce.MergeManagerImpl: Merging 1 files, 9225 bytes from disk

2024-09-12 20:17:45,410 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce
2024-09-12 20:17:45,410 INFO mapred.Merger: Merging 1 sorted segments
2024-09-12 20:17:45,413 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 9201 bytes
2024-09-12 20:17:45,421 INFO mapred.LocalJobRunner: 1 / 1 copied.
2024-09-12 20:17:45,504 INFO Configuration.deprecation: mapred.skip.on is deprecated. Instead, use mapreduce.job.skiprecords
2024-09-12 20:17:45,596 INFO mapred.Task: Task:attempt_local1070794341_0001_r_000000_0 is done. And is in the process of committing
2024-09-12 20:17:45,600 INFO mapred.LocalJobRunner: 1 / 1 copied.
2024-09-12 20:17:45,600 INFO mapred.Task: Task attempt_local1070794341_0001_r_000000_0 is allowed to commit now
2024-09-12 20:17:45,649 INFO output.FileOutputCommitter: Saved output of task 'attempt_local1070794341_0001_r_000000_0' to hdfs://localhost:9000/user/hadoop/WeatherTutorial/Output
2024-09-12 20:17:45,652 INFO mapred.LocalJobRunner: reduce > reduce
2024-09-12 20:17:45,652 INFO mapred.Task: Task 'attempt_local1070794341_0001_r_000000_0' done.
2024-09-12 20:17:45,654 INFO mapred.Task: Final Counters for attempt_local1070794341_0001_r_000000_0: Counters: 30
        File System Counters
        FILE: Number of bytes read=21796
        FILE: Number of bytes written=663374
        FILE: Number of read operations=0
        FILE: Number of large read operations=0
        FILE: Number of write operations=0
        HDFS: Number of bytes read=79205
        HDFS: Number of bytes written=8489
        HDFS: Number of read operations=10
        HDFS: Number of large read operations=0
        HDFS: Number of write operations=4
        HDFS: Number of bytes read erasure-coded=0
        Map-Reduce Framework
        Combine input records=0
        Combine output records=0
        Reduce input groups=365
        Reduce shuffle bytes=9225
        Reduce input records=365
        Reduce output records=365
        Spilled Records=365
        Shuffled Maps =1
        Failed Shuffles=0

Merged Map outputs=1
GC time elapsed (ms)=0
Total committed heap usage (bytes)=379060224
Shuffle Errors
BAD_ID=0
CONNECTION=0
IO_ERROR=0
WRONG_LENGTH=0
WRONG_MAP=0
WRONG_REDUCE=0
File Output Format Counters
Bytes Written=8489
2024-09-12 20:17:45,654 INFO mapred.LocalJobRunner: Finishing task: attempt_local1070794341_0001_r_000000_0
2024-09-12 20:17:45,655 INFO mapred.LocalJobRunner: reduce task executor complete.
2024-09-12 20:17:46,028 INFO mapreduce.Job:  map 100% reduce 100%
2024-09-12 20:17:46,029 INFO mapreduce.Job: Job job_local1070794341_0001 completed successfully
2024-09-12 20:17:46,037 INFO mapreduce.Job: Counters: 36
File System Counters
FILE: Number of bytes read=25110
FILE: Number of bytes written=1317523
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=158410
HDFS: Number of bytes written=8489
HDFS: Number of read operations=15
HDFS: Number of large read operations=0
HDFS: Number of write operations=6
HDFS: Number of bytes read erasure-coded=0
Map-Reduce Framework
Map input records=365
Map output records=365
Map output bytes=8489
Map output materialized bytes=9225
Input split bytes=125
Combine input records=0
Combine output records=0
Reduce input groups=365
Reduce shuffle bytes=9225
Reduce input records=365
Reduce output records=365

Spilled Records=730
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=17
Total committed heap usage (bytes)=758120448
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=79205
File Output Format Counters
Bytes Written=8489
hadoop@vinoth-ubuntu:~/Documents/WeatherExpt$ hadoop dfs -cat
WeatherTutorial/Output/*
WARNING: Use of this script to execute dfs is deprecated.
WARNING: Attempting to execute replacement "hdfs dfs" instead.

Cold Day 20150101      -21.8
Cold Day 20150102      -24.9
Cold Day 20150103      -28.2
Cold Day 20150104      -28.9
Cold Day 20150105      -29.3
Cold Day 20150106      -26.3
Cold Day 20150107      -28.7
Cold Day 20150108      -24.1
Cold Day 20150109      -20.3
Cold Day 20150110      -25.8
Cold Day 20150111      -28.2
Cold Day 20150112      -29.1
Cold Day 20150113      -29.9
Cold Day 20150114      -29.0
Cold Day 20150115      -24.2
Cold Day 20150116      -24.6
Cold Day 20150117      -23.2
Cold Day 20150118      -23.0
Cold Day 20150119      -30.4
Cold Day 20150120      -24.7
Cold Day 20150121      -24.1
Cold Day 20150122      -27.5

| | | |
|---|---|---|
| Cold Day 20150123 | -29.3 |
| Cold Day 20150124 | -30.3 |
| Cold Day 20150125 | -30.0 |
| Cold Day 20150126 | -30.7 |
| Cold Day 20150127 | -26.9 |
| Cold Day 20150128 | -36.2 |
| Cold Day 20150129 | -35.0 |
| Cold Day 20150130 | -24.2 |
| Cold Day 20150131 | -26.5 |
| Cold Day 20150201 | -22.1 |
| Cold Day 20150202 | -19.0 |
| Cold Day 20150203 | -31.1 |
| Cold Day 20150204 | -38.2 |
| Cold Day 20150205 | -37.0 |
| Cold Day 20150206 | -29.7 |
| Cold Day 20150207 | -27.9 |
| Cold Day 20150208 | -35.4 |
| Cold Day 20150209 | -36.8 |
| Cold Day 20150210 | -34.5 |
| Cold Day 20150211 | -34.1 |
| Cold Day 20150212 | -32.5 |
| Cold Day 20150213 | -34.0 |
| Cold Day 20150214 | -34.6 |
| Cold Day 20150215 | -32.8 |
| Cold Day 20150216 | -25.7 |
| Cold Day 20150217 | -22.1 |
| Cold Day 20150218 | -18.5 |
| Cold Day 20150219 | -19.2 |
| Cold Day 20150220 | -23.2 |
| Cold Day 20150221 | -19.3 |
| Cold Day 20150222 | -19.0 |
| Cold Day 20150223 | -20.0 |
| Cold Day 20150224 | -18.1 |
| Cold Day 20150225 | -15.6 |
| Cold Day 20150226 | -6.5 |
| Cold Day 20150227 | -16.3 |
| Cold Day 20150228 | -26.5 |
| Cold Day 20150301 | -28.5 |
| Cold Day 20150302 | -23.6 |
| Cold Day 20150303 | -16.4 |
| Cold Day 20150304 | -25.4 |
| Cold Day 20150305 | -26.9 |
| Cold Day 20150306 | -27.6 |
| Cold Day 20150307 | -25.0 |

Cold Day 20150308    -29.6
Cold Day 20150309    -31.5
Cold Day 20150310    -36.5
Cold Day 20150311    -38.6
Cold Day 20150312    -39.3
Cold Day 20150313    -39.3
Cold Day 20150314    -38.0
Cold Day 20150315    -32.7
Cold Day 20150316    -33.1
Cold Day 20150317    -23.7
Cold Day 20150318    -23.9
Cold Day 20150319    -24.2
Cold Day 20150320    -24.3
Cold Day 20150321    -20.2
Cold Day 20150322    -23.0
Cold Day 20150323    -27.0
Cold Day 20150324    -33.0
Cold Day 20150325    -27.4
Cold Day 20150326    -26.5
Cold Day 20150327    -25.0
Cold Day 20150328    -26.3
Cold Day 20150329    -25.0
Cold Day 20150330    -23.3
Cold Day 20150331    -19.3
Cold Day 20150401    -23.7
Cold Day 20150402    -26.1
Cold Day 20150403    -21.6
Cold Day 20150404    -23.7
Cold Day 20150405    -24.2
Cold Day 20150406    -20.1
Cold Day 20150407    -18.4
Cold Day 20150408    -16.4
Cold Day 20150409    -17.6
Cold Day 20150410    -20.0
Cold Day 20150411    -22.1
Cold Day 20150412    -23.1
Cold Day 20150413    -27.7
Cold Day 20150414    -26.1
Cold Day 20150415    -27.4
Cold Day 20150416    -24.2
Cold Day 20150417    -28.1
Cold Day 20150418    -25.0
Cold Day 20150419    -15.6
Cold Day 20150420    -11.8

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Cold Day 20150421      -13.8
Cold Day 20150422      -8.4
Cold Day 20150423      -8.8
Cold Day 20150424      -12.4
Cold Day 20150425      -9.0
Cold Day 20150426      -8.6
Cold Day 20150427      -9.4
Cold Day 20150428      -9.5
Cold Day 20150429      -9.4
Cold Day 20150430      -13.7
Cold Day 20150501      -16.1
Cold Day 20150502      -8.6
Cold Day 20150503      -9.6
Cold Day 20150504      -8.6
Cold Day 20150505      -13.0
Cold Day 20150506      -12.3
Cold Day 20150507      -10.8
Cold Day 20150508      -9.6
Cold Day 20150509      -4.7
Cold Day 20150510      -6.1
Cold Day 20150511      -2.1
Cold Day 20150512      -3.8
Cold Day 20150513      -4.6
Cold Day 20150514      -6.7
Cold Day 20150515      -5.1
Cold Day 20150516      -2.9
Cold Day 20150517      -0.3
Cold Day 20150518      0.7
Cold Day 20150519      -1.4
Cold Day 20150520      -2.6
Cold Day 20150521      0.0
Cold Day 20150522      0.2
Cold Day 20150523      -0.4
Cold Day 20150524      -0.5
Cold Day 20150525      -0.3
Cold Day 20150526      -1.8
Cold Day 20150527      -2.4
Cold Day 20150528      -2.1
Cold Day 20150529      0.2
Cold Day 20150530      -2.3
Cold Day 20150531      -3.8
Cold Day 20150601      -4.0
Cold Day 20150602      -2.4
Cold Day 20150603      -3.2
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| | | |
|---|---|---|
| Cold Day 20150604 | -3.7 |
| Cold Day 20150605 | -3.3 |
| Cold Day 20150606 | -1.0 |
| Cold Day 20150607 | -1.7 |
| Cold Day 20150608 | 1.0 |
| Cold Day 20150609 | 0.6 |
| Cold Day 20150610 | -1.5 |
| Cold Day 20150611 | -2.9 |
| Cold Day 20150612 | -2.4 |
| Cold Day 20150613 | 3.3 |
| Cold Day 20150614 | 3.3 |
| Cold Day 20150615 | 0.8 |
| Cold Day 20150616 | 1.4 |
| Cold Day 20150617 | 1.0 |
| Cold Day 20150618 | 0.6 |
| Cold Day 20150619 | 0.6 |
| Cold Day 20150620 | 7.7 |
| Cold Day 20150621 | 7.1 |
| Cold Day 20150622 | 0.1 |
| Cold Day 20150623 | 1.3 |
| Cold Day 20150624 | 1.3 |
| Cold Day 20150625 | 1.6 |
| Cold Day 20150626 | 2.6 |
| Cold Day 20150627 | 1.4 |
| Cold Day 20150628 | 1.9 |
| Cold Day 20150629 | 6.5 |
| Cold Day 20150630 | 6.7 |
| Cold Day 20150701 | 4.7 |
| Cold Day 20150702 | 3.7 |
| Cold Day 20150703 | 1.3 |
| Cold Day 20150704 | 3.9 |
| Cold Day 20150705 | 8.5 |
| Cold Day 20150706 | 8.1 |
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| Cold Day 20150708 | 0.3 |
| Cold Day 20150709 | 0.2 |
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| Cold Day 20150711 | 0.4 |
| Cold Day 20150712 | 0.6 |
| Cold Day 20150713 | 0.9 |
| Cold Day 20150714 | 2.6 |
| Cold Day 20150715 | 1.1 |
| Cold Day 20150716 | 2.2 |
| Cold Day 20150717 | 1.4 |

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Cold Day 20150719    2.0
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Cold Day 20150820    -3.2
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Cold Day 20150826    2.4
Cold Day 20150827    1.9
Cold Day 20150828    0.5
Cold Day 20150829    0.0
Cold Day 20150830    -0.2
Cold Day 20150831    -0.1

| | | |
|---|---|---|
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| Cold Day | 20150902 | 2.6 |
| Cold Day | 20150903 | 1.3 |
| Cold Day | 20150904 | 0.0 |
| Cold Day | 20150905 | -0.3 |
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| Cold Day | 20150908 | -0.2 |
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| Cold Day | 20150910 | -1.5 |
| Cold Day | 20150911 | -1.2 |
| Cold Day | 20150912 | -2.0 |
| Cold Day | 20150913 | -2.4 |
| Cold Day | 20150914 | 0.1 |
| Cold Day | 20150915 | -1.1 |
| Cold Day | 20150916 | -2.0 |
| Cold Day | 20150917 | -3.0 |
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| Cold Day | 20150919 | -3.4 |
| Cold Day | 20150920 | -3.6 |
| Cold Day | 20150921 | -4.9 |
| Cold Day | 20150922 | -5.6 |
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| Cold Day | 20151009 | -4.6 |
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| Cold Day | 20151013 | -9.4 |
| Cold Day | 20151014 | -6.7 |

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Cold Day 20151118     -29.8
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Cold Day 20151127     -24.1

Cold Day 20151128    -17.9
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Cold Day 20151210    -27.2
Cold Day 20151211    -29.2
Cold Day 20151212    -26.0
Cold Day 20151213    -22.3
Cold Day 20151214    -23.2
Cold Day 20151215    -20.8
Cold Day 20151216    -19.4
Cold Day 20151217    -22.9
Cold Day 20151218    -25.7
Cold Day 20151219    -22.3
Cold Day 20151220    -22.5
Cold Day 20151221    -27.5
Cold Day 20151222    -30.0
Cold Day 20151223    -30.3
Cold Day 20151224    -30.8
Cold Day 20151225    -37.5
Cold Day 20151226    -29.6
Cold Day 20151227    -26.0
Cold Day 20151228    -27.1
Cold Day 20151229    -33.0
Cold Day 20151230    -25.7
Cold Day 20151231    -22.7
Hot Day 201507209999.0

Hadoop    Overview    Datanodes    Datanode Volume Failures    Snapshot    Startup Progress    Utilities ▾

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| ☐ | Permission | Owner | Group | Size | Last Modified | Replication | Block Size | Name | |
|---|---|---|---|---|---|---|---|---|---|
| ☐ | drwxr-xr-x | hadoop | supergroup | 0 B | Sep 12 20:04 | 0 | 0 B | Input | 🗑 |
| ☐ | drwxr-xr-x | hadoop | supergroup | 0 B | Sep 12 20:24 | 0 | 0 B | Output | 🗑 |

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Hadoop, 2023.