HADOOP WORD COUNT

C:\hadoop new\share\hadoop\mapreduce>hadoop jar

hadoop-mapreduce-examples-3.1.0.jar

An example program must be given as the first argument.

Valid program names are:

aggregatewordcount: An Aggregate based map/reduce program that counts the words in the input files.

aggregatewordhist: An Aggregate based map/reduce program that computes the histogram of the words in the input files.

bbp: A map/reduce program that uses Bailey-Borwein-Plouffe to compute exact digits of Pi.

dbcount: An example job that count the pageview counts from a database.

distbbp: A map/reduce program that uses a BBP-type formula to compute exact bits of Pi.

grep: A map/reduce program that counts the matches of a regex in the input.

join: A job that effects a join over sorted, equally partitioned datasets multifilewc: A job that counts words from several files.

pentomino: A map/reduce tile laying program to find solutions to pentomino problems.

pi: A map/reduce program that estimates Pi using a quasi-Monte Carlo method. randomtextwriter: A map/reduce program that writes 10GB of random textual data per node.

randomwriter: A map/reduce program that writes 10GB of random data per node.

secondarysort: An example defining a secondary sort to the reduce.

sort: A map/reduce program that sorts the data written by the random writer.

sudoku: A sudoku solver.

teragen: Generate data for the terasort

terasort: Run the terasort

teravalidate: Checking results of terasort

wordcount: A map/reduce program that counts the words in the input files.

wordmean: A map/reduce program that counts the average length of the words in the input files.

wordmedian: A map/reduce program that counts the median length of the words in the input files.

wordstandarddeviation: A map/reduce program that counts the standard deviation of the length of the words in the input files.

C:\hadoop_new\share\hadoop\mapreduce>hdfs dfs -mkdir /input

C:\hadoop_new\share\hadoop\mapreduce>hdfs dfs -put E:\Desktop\input.txt \input

C:\hadoop_new\share\hadoop\mapreduce>hdfs dfs -ls \input Found 1 items

deer car bear

-rw-r--r-- 1 Admin supergroup 45 2021-04-26 14:46 /input/input.txt

C:\hadoop_new\share\hadoop\mapreduce>hdfs dfs -cat \input\input.txt deer bear river car car river

C:\hadoop_new\share\hadoop\mapreduce>hadoop jar hadoop-mapreduce-examples-3.1.0.jar wordcount \input \firstExampleOutput 2021-04-26 16:04:57,079 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

2021-04-26 16:04:59,541 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path:

/tmp/hadoop-yarn/staging/Admin/.staging/job_1619433198405_0001 2021-04-26 16:05:02,640 INFO input.FileInputFormat: Total input files to process : 1

2021-04-26 16:05:04,138 INFO mapreduce.JobSubmitter: number of splits:1 2021-04-26 16:05:04,450 INFO Configuration.deprecation:

yarn.resourcemanager.system-metrics-publisher.enabled is deprecated. Instead, use yarn.system-metrics-publisher.enabled

2021-04-26 16:05:05,111 INFO mapreduce. JobSubmitter: Submitting tokens for job: job_1619433198405_0001

2021-04-26 16:05:05,114 INFO mapreduce.JobSubmitter: Executing with tokens:

2021-04-26 16:05:05,609 INFO conf.Configuration: resource-types.xml not found 2021-04-26 16:05:05,614 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.

2021-04-26 16:05:06,486 INFO impl. YarnClientImpl: Submitted application application 1619433198405 0001

2021-04-26 16:05:06,666 INFO mapreduce. Job: The url to track the job:

http://DESKTOP-CK14PFH:8088/proxy/application_1619433198405_0001/

2021-04-26 16:05:06,668 INFO mapreduce.Job: Running job:

job 1619433198405 0001

2021-04-26 16:05:39,704 INFO mapreduce.Job: Job job_1619433198405_0001 running in uber mode : false

2021-04-26 16:05:39,806 INFO mapreduce.Job: map 0% reduce 0%

2021-04-26 16:06:04,188 INFO mapreduce. Job: map 100% reduce 0%

2021-04-26 16:06:41,797 INFO mapreduce.Job: map 100% reduce 100%

2021-04-26 16:06:46,907 INFO mapreduce.Job: Job job_1619433198405_0001 completed successfully

2021-04-26 16:06:47,311 INFO mapreduce.Job: Counters: 53

File System Counters

FILE: Number of bytes read=50

FILE: Number of bytes written=427745

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=147

HDFS: Number of bytes written=28

HDFS: Number of read operations=8

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)=19887

Total time spent by all reduces in occupied slots (ms)=34624

Total time spent by all map tasks (ms)=19887

Total time spent by all reduce tasks (ms)=34624

Total vcore-milliseconds taken by all map tasks=19887

Total vcore-milliseconds taken by all reduce tasks=34624

Total megabyte-milliseconds taken by all map tasks=20364288

Total megabyte-milliseconds taken by all reduce tasks=35454976

```
Map-Reduce Framework
```

Map input records=3

Map output records=9

Map output bytes=80

Map output materialized bytes=50

Input split bytes=102

Combine input records=9

Combine output records=4

Reduce input groups=4

Reduce shuffle bytes=50

Reduce input records=4

Reduce output records=4

Spilled Records=8

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=192

CPU time spent (ms)=3855

Physical memory (bytes) snapshot=454619136

Virtual memory (bytes) snapshot=598560768

Total committed heap usage (bytes)=245891072

Peak Map Physical memory (bytes)=269107200

Peak Map Virtual memory (bytes)=346247168

Peak Reduce Physical memory (bytes)=185511936

Peak Reduce Virtual memory (bytes)=252313600

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=45

File Output Format Counters

Bytes Written=28

C:\hadoop_new\share\hadoop\mapreduce>hdfs dfs -ls \input Found 1 items

-rw-r--r-- 1 Admin supergroup 45 2021-04-26 14:46 /input/input.txt

C:\hadoop_new\share\hadoop\mapreduce>hdfs dfs -ls \firstExampleOutput Found 2 items

-rw-r--r-- 1 Admin supergroup 0 2021-04-26 16:06

/firstExampleOutput/_SUCCESS

-rw-r--r- 1 Admin supergroup 28 2021-04-26 16:06

/firstExampleOutput/part-r-00000

C:\hadoop_new\share\hadoop\mapreduce>hdfs dfs -cat \firstExampleOutput\part-r-00000

bear 2

car 3

deer 2

river 2