**Map Reduce Program Statistics**

hadoop@kehsihba-HP-Laptop-15-da1xxx:~/Documents/hadoop$ hadoop jar sp.jar SearchPlaces /user/hadoop/mgs655/input /user/hadoop/mgs655/output /user/hadoop/mgs655/places/places.docx

2023-11-28 01:10:02,692 INFO client.DefaultNoHARMFailoverProxyProvider: Connecting to ResourceManager at /0.0.0.0:8032

2023-11-28 01:10:03,508 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.

2023-11-28 01:10:03,566 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/hadoop/.staging/job\_1701146771422\_0006

2023-11-28 01:10:04,323 INFO input.FileInputFormat: Total input files to process : 8

2023-11-28 01:10:04,443 INFO mapreduce.JobSubmitter: number of splits:8

2023-11-28 01:10:05,020 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1701146771422\_0006

2023-11-28 01:10:05,021 INFO mapreduce.JobSubmitter: Executing with tokens: []

2023-11-28 01:10:05,510 INFO conf.Configuration: resource-types.xml not found

2023-11-28 01:10:05,511 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.

2023-11-28 01:10:05,668 INFO impl.YarnClientImpl: Submitted application application\_1701146771422\_0006

2023-11-28 01:10:05,753 INFO mapreduce.Job: The url to track the job: http://kehsihba-HP-Laptop-15-da1xxx:8088/proxy/application\_1701146771422\_0006/

2023-11-28 01:10:05,754 INFO mapreduce.Job: Running job: job\_1701146771422\_0006

2023-11-28 01:10:20,062 INFO mapreduce.Job: Job job\_1701146771422\_0006 running in uber mode : false

2023-11-28 01:10:20,064 INFO mapreduce.Job: map 0% reduce 0%

2023-11-28 01:10:49,897 INFO mapreduce.Job: map 38% reduce 0%

2023-11-28 01:10:52,961 INFO mapreduce.Job: map 50% reduce 0%

2023-11-28 01:10:53,981 INFO mapreduce.Job: map 63% reduce 0%

2023-11-28 01:10:54,996 INFO mapreduce.Job: map 75% reduce 0%

2023-11-28 01:11:08,239 INFO mapreduce.Job: map 100% reduce 0%

2023-11-28 01:11:10,257 INFO mapreduce.Job: map 100% reduce 100%

2023-11-28 01:11:10,274 INFO mapreduce.Job: Job job\_1701146771422\_0006 completed successfully

2023-11-28 01:11:10,525 INFO mapreduce.Job: Counters: 55

File System Counters

FILE: Number of bytes read=861

FILE: Number of bytes written=2501288

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=519510

HDFS: Number of bytes written=378

HDFS: Number of read operations=29

HDFS: Number of large read operations=0

HDFS: Number of write operations=2

HDFS: Number of bytes read erasure-coded=0

Job Counters

Killed map tasks=1

**Launched map tasks=8**

**Launched reduce tasks=1**

Data-local map tasks=8

Total time spent by all maps in occupied slots (ms)=211287

Total time spent by all reduces in occupied slots (ms)=16548

Total time spent by all map tasks (ms)=211287

Total time spent by all reduce tasks (ms)=16548

Total vcore-milliseconds taken by all map tasks=211287

Total vcore-milliseconds taken by all reduce tasks=16548

Total megabyte-milliseconds taken by all map tasks=216357888

Total megabyte-milliseconds taken by all reduce tasks=16945152

Map-Reduce Framework

Map input records=3347

Map output records=162

Map output bytes=2262

Map output materialized bytes=903

Input split bytes=1009

Combine input records=162

Combine output records=56

Reduce input groups=34

Reduce shuffle bytes=903

Reduce input records=56

Reduce output records=34

Spilled Records=112

Shuffled Maps =8

Failed Shuffles=0

Merged Map outputs=8

GC time elapsed (ms)=2712

**CPU time spent (ms)=64400**

Physical memory (bytes) snapshot=3045941248

Virtual memory (bytes) snapshot=24829689856

Total committed heap usage (bytes)=2359296000

Peak Map Physical memory (bytes)=390516736

Peak Map Virtual memory (bytes)=2778603520

Peak Reduce Physical memory (bytes)=239337472

Peak Reduce Virtual memory (bytes)=2763341824

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=518501

File Output Format Counters

Bytes Written=378

**Map Reduce Program Output**

hadoop@kehsihba-HP-Laptop-15-da1xxx:~/Documents$ hdfs dfs -cat /user/hadoop/mgs655/output/part-r-00000

Asia 1

Austin 1

Australia 1

Brazil 4

California 1

Canada 23

Chile 1

China 3

Delaware 2

Europe 7

Fort Worth 4

Franklin 2

Hong Kong 1

India 4

Japanese 2

Latin America 26

London 1

New York 7

North America 11

North Carolina 1

Puerto Rico 1

San Francisco 1

Spain 1

Spanish 3

Texas 3

United Kingdom 2

United States 21

Utah 1

Venezuela 1

York 7

billings 4

mobile 6

normal 7

superior 1

**Single Thread Program Output**

kehsihba@kehsihba-HP-Laptop-15-da1xxx:~/Documents/mgs655/SearchPlaces$ cd /home/kehsihba/Documents/mgs655/SearchPlaces ; /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java @/tmp/cp\_b4atif1gt717iokdd6u1drbr0.argfile GFG

spain 1

brazil 4

london 1

billings 3

united states 17

texas 1

india 1

venezuela 1

japanese 1

north america 1

austin 1

delaware 2

latin america 17

california 1

europe 1

fort worth 1

san francisco 1

normal 6

spanish 1

north carolina 1

united kingdom 2

asia 1

mobile 2

hong kong 1

australia 1

new york 3

puerto rico 1

utah 1

superior 1

china 3

canada 22

york 3

franklin 1

chile 1

**Elapsed Time in milli seconds: 2050**

**MAP REDUCE CONSOLE**

A computer screen shot of a computer screen

Description automatically generated

**SINGLE THREAD CONSOLE**

