administrator@student-ThinkCentre-M72e:~$ su - root

Password:

root@student-ThinkCentre-M72e:~# export CLASSPATH=`hadoop classpath`:.:

root@student-ThinkCentre-M72e:~# echo $CLASSPATH

/usr/local/hadoop/etc/hadoop:/usr/local/hadoop/share/hadoop/common/lib/\*:/usr/local/hadoop/share/hadoop/common/\*:/usr/local/hadoop/share/hadoop/hdfs:/usr/local/hadoop/share/hadoop/hdfs/lib/\*:/usr/local/hadoop/share/hadoop/hdfs/\*:/usr/local/hadoop/share/hadoop/yarn/lib/\*:/usr/local/hadoop/share/hadoop/yarn/\*:/usr/local/hadoop/share/hadoop/mapreduce/lib/\*:/usr/local/hadoop/share/hadoop/mapreduce/\*:/contrib/capacity-scheduler/\*.jar:.:

root@student-ThinkCentre-M72e:~# javac -d /home/administrator/npzt/class /home/administrator/npzt/Mainmapper.java

Note: /home/administrator/npzt/Mainmapper.java uses or overrides a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

root@student-ThinkCentre-M72e:~# jar -cvf largest -C /home/administrator/npzt/class/ .

added manifest

adding: Mainmapper.class(in = 1584) (out= 853)(deflated 46%)

adding: REducer.class(in = 1697) (out= 696)(deflated 58%)

adding: yeartempmapper.class(in = 1869) (out= 749)(deflated 59%)

root@student-ThinkCentre-M72e:~# start-all.sh

This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh

19/10/04 09:39:27 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Incorrect configuration: namenode address dfs.namenode.servicerpc-address or dfs.namenode.rpc-address is not configured.

Starting namenodes on []

localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-root-namenode-student-ThinkCentre-M72e.out

localhost: starting datanode, logging to /usr/local/hadoop/logs/hadoop-root-datanode-student-ThinkCentre-M72e.out

Starting secondary namenodes [0.0.0.0]

0.0.0.0: starting secondarynamenode, logging to /usr/local/hadoop/logs/hadoop-root-secondarynamenode-student-ThinkCentre-M72e.out

19/10/04 09:39:58 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

starting yarn daemons

resourcemanager running as process 3030. Stop it first.

localhost: nodemanager running as process 3224. Stop it first.

root@student-ThinkCentre-M72e:~# jps

4130 DataNode

3224 NodeManager

4666 Jps

3030 ResourceManager

4364 SecondaryNameNode

root@student-ThinkCentre-M72e:~# hdfs dfs -mkdir /npzt

19/10/04 09:44:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

root@student-ThinkCentre-M72e:~# hdfs dfs -ls /

19/10/04 09:44:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Found 24 items

drwxr-xr-x - root root 4096 2014-11-19 18:00 /bin

drwxr-xr-x - root root 4096 2019-10-04 09:44 /npzt

root@student-ThinkCentre-M72e:~# hdfs dfs -copyFromLocal /home/administrator/npzt/input /npzt

19/10/04 09:46:01 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

root@student-ThinkCentre-M72e:~# hdfs dfs -ls /npzt

19/10/04 09:46:21 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

Found 1 items

-rw-r--r-- 1 root root 184 2019-10-04 09:46 /npzt/input

root@student-ThinkCentre-M72e:~# hadoop jar /home/administrator/npzt/largest.jar Mainmapper /npzt/input /npzt/output

19/10/04 09:51:42 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

19/10/04 09:51:42 INFO Configuration.deprecation: session.id is deprecated. Instead, use dfs.metrics.session-id

19/10/04 09:51:42 INFO jvm.JvmMetrics: Initializing JVM Metrics with processName=JobTracker, sessionId=

19/10/04 09:51:42 INFO input.FileInputFormat: Total input paths to process : 1

19/10/04 09:51:42 INFO mapreduce.JobSubmitter: number of splits:1

19/10/04 09:51:42 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_local235126436\_0001

19/10/04 09:51:42 INFO mapreduce.Job: The url to track the job: http://localhost:8080/

19/10/04 09:51:42 INFO mapreduce.Job: Running job: job\_local235126436\_0001

19/10/04 09:51:42 INFO mapred.LocalJobRunner: OutputCommitter set in config null

19/10/04 09:51:42 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapreduce.lib.output.FileOutputCommitter

19/10/04 09:51:43 INFO mapred.LocalJobRunner: Waiting for map tasks

19/10/04 09:51:43 INFO mapred.LocalJobRunner: Starting task: attempt\_local235126436\_0001\_m\_000000\_0

19/10/04 09:51:43 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]

19/10/04 09:51:43 INFO mapred.MapTask: Processing split: file:/npzt/input:0+184

19/10/04 09:51:43 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(104857584)

19/10/04 09:51:43 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100

19/10/04 09:51:43 INFO mapred.MapTask: soft limit at 83886080

19/10/04 09:51:43 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600

19/10/04 09:51:43 INFO mapred.MapTask: kvstart = 26214396; length = 6553600

19/10/04 09:51:43 INFO mapred.MapTask: Map output collector class = org.apache.hadoop.mapred.MapTask$MapOutputBuffer

19/10/04 09:51:43 INFO mapred.LocalJobRunner:

19/10/04 09:51:43 INFO mapred.MapTask: Starting flush of map output

19/10/04 09:51:43 INFO mapred.MapTask: Spilling map output

19/10/04 09:51:43 INFO mapred.MapTask: bufstart = 0; bufend = 64; bufvoid = 104857600

19/10/04 09:51:43 INFO mapred.MapTask: kvstart = 26214396(104857584); kvend = 26214368(104857472); length = 29/6553600

19/10/04 09:51:43 INFO mapred.MapTask: Finished spill 0

19/10/04 09:51:43 INFO mapred.Task: Task:attempt\_local235126436\_0001\_m\_000000\_0 is done. And is in the process of committing

19/10/04 09:51:43 INFO mapred.LocalJobRunner: map

19/10/04 09:51:43 INFO mapred.Task: Task 'attempt\_local235126436\_0001\_m\_000000\_0' done.

19/10/04 09:51:43 INFO mapred.LocalJobRunner: Finishing task: attempt\_local235126436\_0001\_m\_000000\_0

19/10/04 09:51:43 INFO mapred.LocalJobRunner: map task executor complete.

19/10/04 09:51:43 INFO mapred.LocalJobRunner: Waiting for reduce tasks

19/10/04 09:51:43 INFO mapred.LocalJobRunner: Starting task: attempt\_local235126436\_0001\_r\_000000\_0

19/10/04 09:51:43 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]

19/10/04 09:51:43 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@ce8273

19/10/04 09:51:43 INFO reduce.MergeManagerImpl: MergerManager: memoryLimit=334063200, maxSingleShuffleLimit=83515800, mergeThreshold=220481728, ioSortFactor=10, memToMemMergeOutputsThreshold=10

19/10/04 09:51:43 INFO reduce.EventFetcher: attempt\_local235126436\_0001\_r\_000000\_0 Thread started: EventFetcher for fetching Map Completion Events

19/10/04 09:51:43 INFO reduce.LocalFetcher: localfetcher#1 about to shuffle output of map attempt\_local235126436\_0001\_m\_000000\_0 decomp: 82 len: 86 to MEMORY

19/10/04 09:51:43 INFO reduce.InMemoryMapOutput: Read 82 bytes from map-output for attempt\_local235126436\_0001\_m\_000000\_0

19/10/04 09:51:43 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 82, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory ->82

19/10/04 09:51:43 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning

19/10/04 09:51:43 INFO mapred.LocalJobRunner: 1 / 1 copied.

19/10/04 09:51:43 INFO reduce.MergeManagerImpl: finalMerge called with 1 in-memory map-outputs and 0 on-disk map-outputs

19/10/04 09:51:43 INFO mapred.Merger: Merging 1 sorted segments

19/10/04 09:51:43 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 76 bytes

19/10/04 09:51:43 INFO reduce.MergeManagerImpl: Merged 1 segments, 82 bytes to disk to satisfy reduce memory limit

19/10/04 09:51:43 INFO reduce.MergeManagerImpl: Merging 1 files, 86 bytes from disk

19/10/04 09:51:43 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce

19/10/04 09:51:43 INFO mapred.Merger: Merging 1 sorted segments

19/10/04 09:51:43 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 76 bytes

19/10/04 09:51:43 INFO mapred.LocalJobRunner: 1 / 1 copied.

19/10/04 09:51:43 INFO Configuration.deprecation: mapred.skip.on is deprecated. Instead, use mapreduce.job.skiprecords

19/10/04 09:51:43 INFO mapred.Task: Task:attempt\_local235126436\_0001\_r\_000000\_0 is done. And is in the process of committing

19/10/04 09:51:43 INFO mapred.LocalJobRunner: 1 / 1 copied.

19/10/04 09:51:43 INFO mapred.Task: Task attempt\_local235126436\_0001\_r\_000000\_0 is allowed to commit now

19/10/04 09:51:43 INFO output.FileOutputCommitter: Saved output of task 'attempt\_local235126436\_0001\_r\_000000\_0' to file:/npzt/output/\_temporary/0/task\_local235126436\_0001\_r\_000000

19/10/04 09:51:43 INFO mapred.LocalJobRunner: reduce > reduce

19/10/04 09:51:43 INFO mapred.Task: Task 'attempt\_local235126436\_0001\_r\_000000\_0' done.

19/10/04 09:51:43 INFO mapred.LocalJobRunner: Finishing task: attempt\_local235126436\_0001\_r\_000000\_0

19/10/04 09:51:43 INFO mapred.LocalJobRunner: reduce task executor complete.

19/10/04 09:51:43 INFO mapreduce.Job: Job job\_local235126436\_0001 running in uber mode : false

19/10/04 09:51:43 INFO mapreduce.Job: map 100% reduce 100%

19/10/04 09:51:43 INFO mapreduce.Job: Job job\_local235126436\_0001 completed successfully

19/10/04 09:51:44 INFO mapreduce.Job: Counters: 33

File System Counters

FILE: Number of bytes read=6910

FILE: Number of bytes written=510474

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

Map-Reduce Framework

Map input records=8

Map output records=8

Map output bytes=64

Map output materialized bytes=86

Input split bytes=81

Combine input records=0

Combine output records=0

Reduce input groups=1

Reduce shuffle bytes=86

Reduce input records=8

Reduce output records=1

Spilled Records=16

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=6

CPU time spent (ms)=0

Physical memory (bytes) snapshot=0

Virtual memory (bytes) snapshot=0

Total committed heap usage (bytes)=330956800

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=200

File Output Format Counters

Bytes Written=22

root@student-ThinkCentre-M72e:~# hdfs dfs -ls /npzt/output19/10/04 09:51:57 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 root root 0 2019-10-04 09:51 /npzt/output/\_SUCCESS

-rw-r--r-- 1 root root 10 2019-10-04 09:51 /npzt/output/part-r-00000

//OUTPUT:

root@student-ThinkCentre-M72e:~# hdfs dfs -cat /npzt/output/part-r-00000

19/10/04 09:52:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

1900 31.0