BIG DATA ANALYSIS

Hadoop MapReduce for Climate Data Analytics

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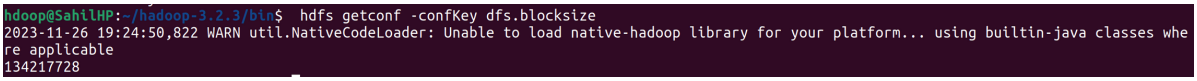
Task 2

(b) How many Map and Reduce tasks did running Word Count on Gberg-100M.txt produce? Run it again on Gberg-200M.txt and Gberg-500M.txt and write your observations. Additionally, run the following command on the cluster: $ hdfs getconf -confKey dfs.blocksize

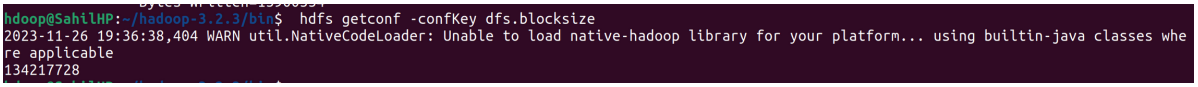
Text file	Map Tasks	Reduce Tasks	Input file Size	Block size
Gberg-100M.txt	1	1	104.3 Mb	134.21 Mb
Gberg-200M.txt	3	1	209.7 Mb	134.21 Mb
Gberg-500M.txt	4	1	524.3 Mb	134.21 Mb

After running given command for each Cluster :

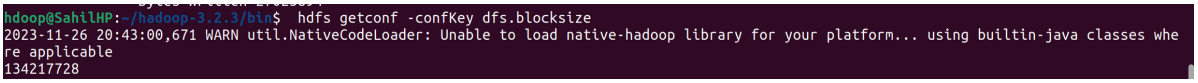
1. Gberg-100.txt



2. Gberg-200.txt



3. Gberg-500.txt



(c) What is the link between the input size, the number of Map tasks, and the size of a block on HDFS?

In above table in part (b), we can clearly see that as input size increases map tasks increases but block size on HDFS remain same for all three input files.