CS 553 Cloud Computing

Programming Assignment 1

<u>MANUAL</u>

Dinesh Chowday Jasti (A20335710)
Jayanth Vangari (A20337867)
Sai Sravan Rachiraju (A20332891)

Word Count in Java:

NormalJavaWCount.java

Compiling in Linux OS:

Step1
- Change to directory of source code location.

Step2:
- Run $javac NormalJavaWCount.java

Step3:
- Run command $java NormalJavaWCount

Step4:
- Enter the path of the folder where file is stored which is to be processed when prompted for with the file name.

Step5:
- Upon successful execution, check the output.txt file present in the same location as the input file.

Compiling in Windows OS:

Step1:
- To compile the program open command prompt and navigate to the file location.

Step2:
- To compile enter javac NormalJavaWCount.java
- To run enter java NormalJavaWCount

SortJavaWCount.java

Compiling in Linux OS:

Step1
- Change to directory of source code location.

Step2:
- Run $javac SortJavaWCount.java

Step3:
- Run command $java SortJavaWCount

Step4:
- Enter the path of the folder where file is stored which is to be processed when prompted for with the file name.

Step5:
- Upon successful execution, check the output.txt file present in the same location as the input file.

Compiling in Windows OS:

Step1:
- To compile the program open command prompt and navigate to the file location.

Step2:
- To compile enter javac SortJavaWCount.java
- To run enter java SortJavaWCount

Word Count in Hadoop: For Normal Word Count

WC.jar

Hadoop jar wc.jar WordCount /wiki10gb/wordcount-hadoop.txt

WS.jar: For Sorted Result

Hadoop jar ws.jar WordCount /wiki10gb/wordcount-hadoop.txt

Swift:

To execute a swift file we have to use the following command in the terminal. Note that swift must be installed in all the nodes.

Swift wordCount.swift

Swift wordSort.swift

MPI:

To execute the MPI file make sure we have the MPI installed on our system. While using Ubuntu make use of the project report where the detailed method of installing MPI on Ubuntu is given.

To run:

Mpiexec word-count <path of the dataset>