COP5615 Distributed Operating System Principles

ReadMe for Project 3

-------------------------------------------------------------------------------------------------------------------------------

Group Info

Pratik Pandit UFID: 9860-9139

Ravikiran Nety UFID: 3557-1915

-------------------------------------------------------------------------------------------------------------------------------

Instructions to run the programs

Navigate inside the folder in which ‘project1.scala’ exists

**Compile:**

scalac project3.scala

**Run:**

scala project3 numNodes numRequests

-------------------------------------------------------------------------------------------------------------------------------

Tests conducted on the program

1. The result of running your program is as follows:

scala project3 10 5

Output:

Average number of hops traversed are 1

-----------------------------------------------------------------------------------------------------

scala project3 100 5

Output:

Average number of hops traversed are 2.5

------------------------------------------------------------------------------------------------------

scala project3 100 30

Output:

Average number of hops traversed are 2.83

---------------------------------------------------------------------------------------------------------------

scala project3 1000 5

Output:

Average number of hops traversed are 3.11

---------------------------------------------------------------------------------------------------------------

scala project3 1000 30

Output:

Average number of hops traversed are 3.67

---------------------------------------------------------------------------------------------------------------

scala project3 2000 5

Output:

Average number of hops traversed are 4.22

---------------------------------------------------------------------------------------------------------------

scala project3 2000 30

Output:

Average number of hops traversed are 4.46

---------------------------------------------------------------------------------------------------------------

scala project3 5000 5

Output:

Average number of hops traversed are 5.76

---------------------------------------------------------------------------------------------------------------

The maximum number of nodes that the project worked for was 5000 on local machines

The maximum number of nodes that the project worked for was 1000 on CISE’s lin114 machines

(We tested the project on CISE servers during peak traffic hours before submission which we suspect is the main reason for the above observation)

-------------------------------------------------------------------------------------------------------------------------------

What is working

Everything seems to be working fine