

CS6378 Project 2

NetID: hxs180013 Name: Hao Si

NetID: bxy180002 Name: Bo Yang

1. Project Description

Implement a mutual exclusion service among n processes using Lamport's distributed mutual exclusion algorithm.

2. Include Files

- launcher.sh -- The shell script of launching this program
- cleanup.sh -- The shell script of killing this program process
- sources files
 - Listener
 - Message
 - Node
 - Tester
- libs folder
 - commons-math3-3.6.1.jar

3. How to Run it

1. Open shell and use SSH Connecting to **csgrads1** server

```
ssh -Y user@csgrads1.utdallas.edu
```

Make new directory and Move these file to **csgrads1** server

To compile source code, go to the directory of project folder and compile it using following command:

```
javac -Djava.ext.dirs=libs *.java
```

Importance:

- a. **Node** is the main class for this program.
- b. On csgrads1 server, **Set up for password less login** to dcmachines
 2. Modified shell script locally according to your configuration
 3. change mode of shell script file

```
chmod 777 launcher.sh  
chmod 777 cleanup.sh
```

4. Run launcher.sh on **csgrads1** server

```
./launcher.sh
```

5. Run program to check the result

```
java Tester
```

6. Run cleanup.sh on csgrads1 server

```
./cleanup.sh
```