**Gossip Push-Sum Simulator**

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**Execution Instructions:**

1. Scroll to directory: **“\GossipSimulation\_PushSumProtocol”** in the Windows Command Prompt or Ubuntu Terminal
2. Type **sbt** **clean**
3. After clean, type **sbt**
4. Type **compile**
5. Run command: type “***run num\_of\_nodes topology algorithm****”*e.g.: *“****run 1000 3D push-sum****”*
   1. ***Topologies Names****: “*line”, “full”, “3D” & “Imp3D” (cases exactly as mentioned)
   2. ***Algorithms****:* gossip, push-sum (all small with “-“ in push-sum)

**Maximum Nodes  
(Tested System Config - OS**: Windows 10, **Processor**: Intel Core i7, **RAM:** 6 GB**)**

|  |  |  |
| --- | --- | --- |
| **Gossip** | | |
| **Topology** | **Num of Nodes** | **Time (in secs)** |
| **Line** | 10,000 | 1077 |
| **Full** | 5,000 | 19 |
| **3D** | 500,000 | 27 |
| **Improper 3D** |  |  |
|  | | |
| **Push-Sum** | | |
| **Topology** | **Num of Nodes** | **Time (in secs)** |
| **Line** | 10,000 | 142 |
| **Full** | 7,000 | 10 |
| **3D** | 5,000 | 26 |
| **Improper 3D** | 100,000 | 69 |
|  | | |

*Umar……………….. Add Stuff here: About what was working…???????*

