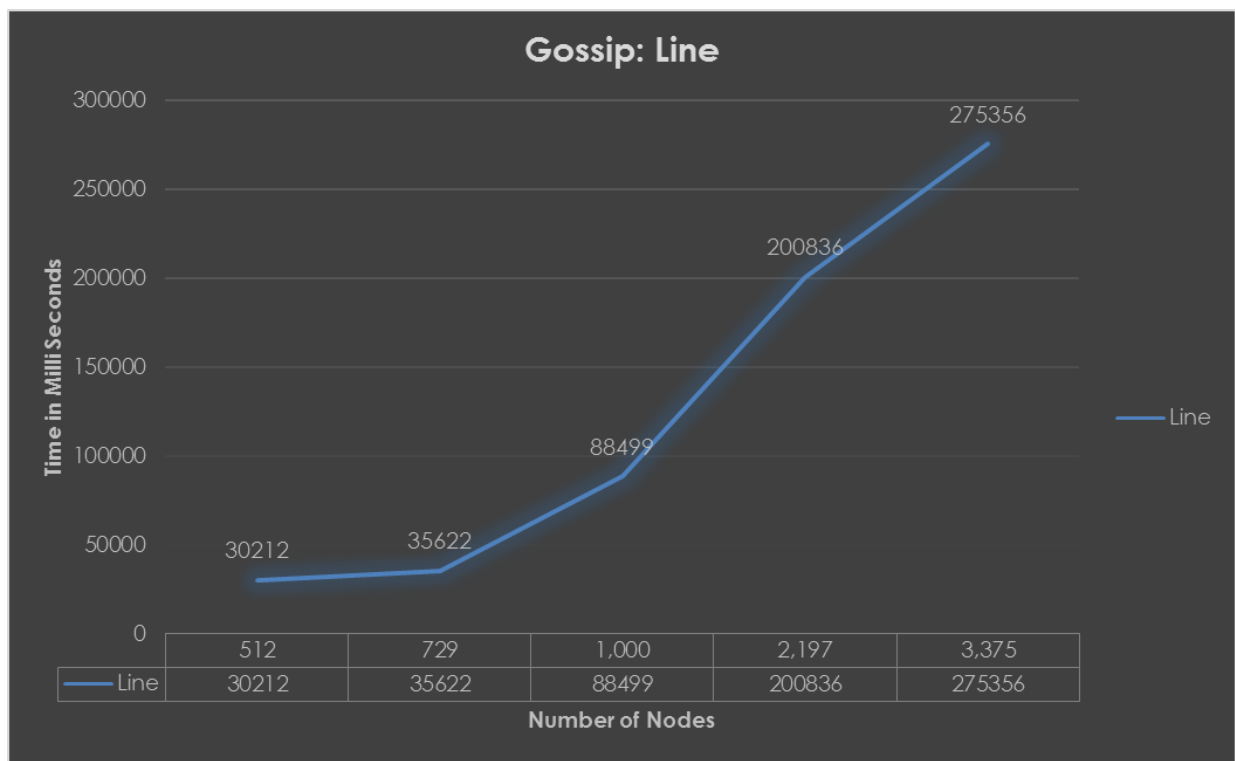
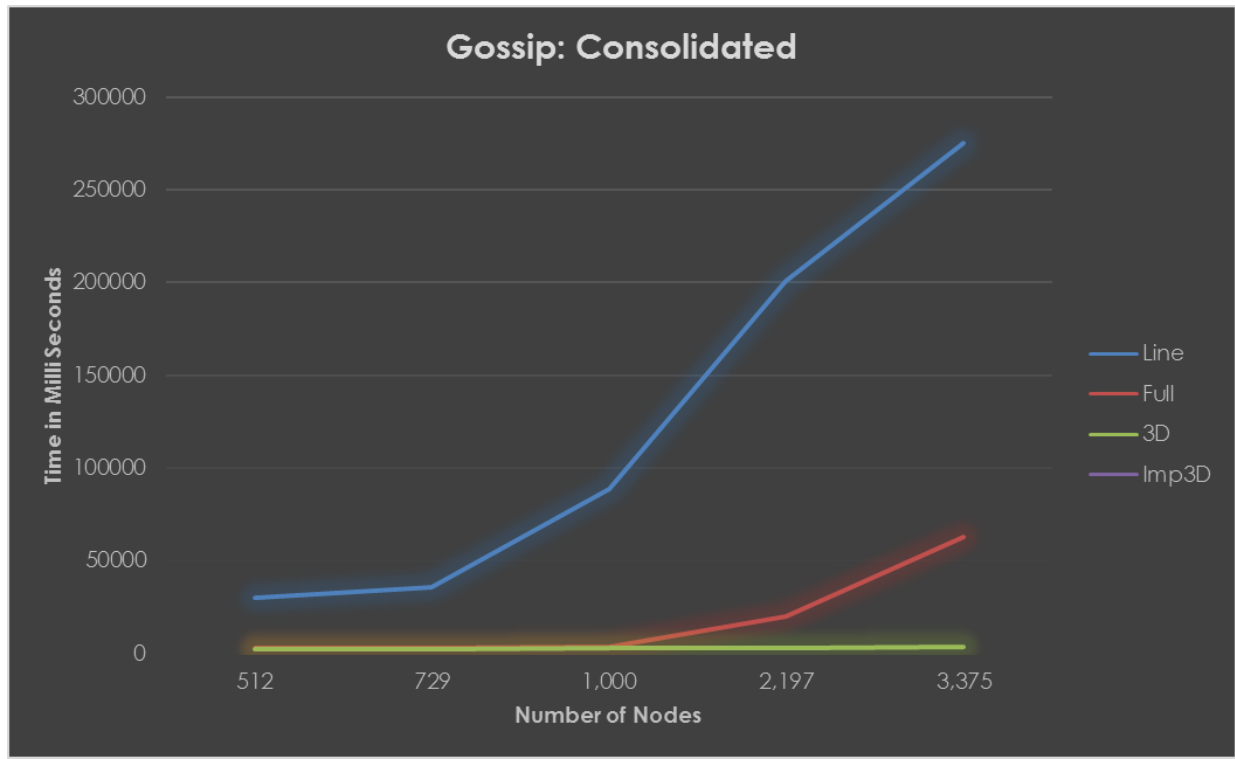
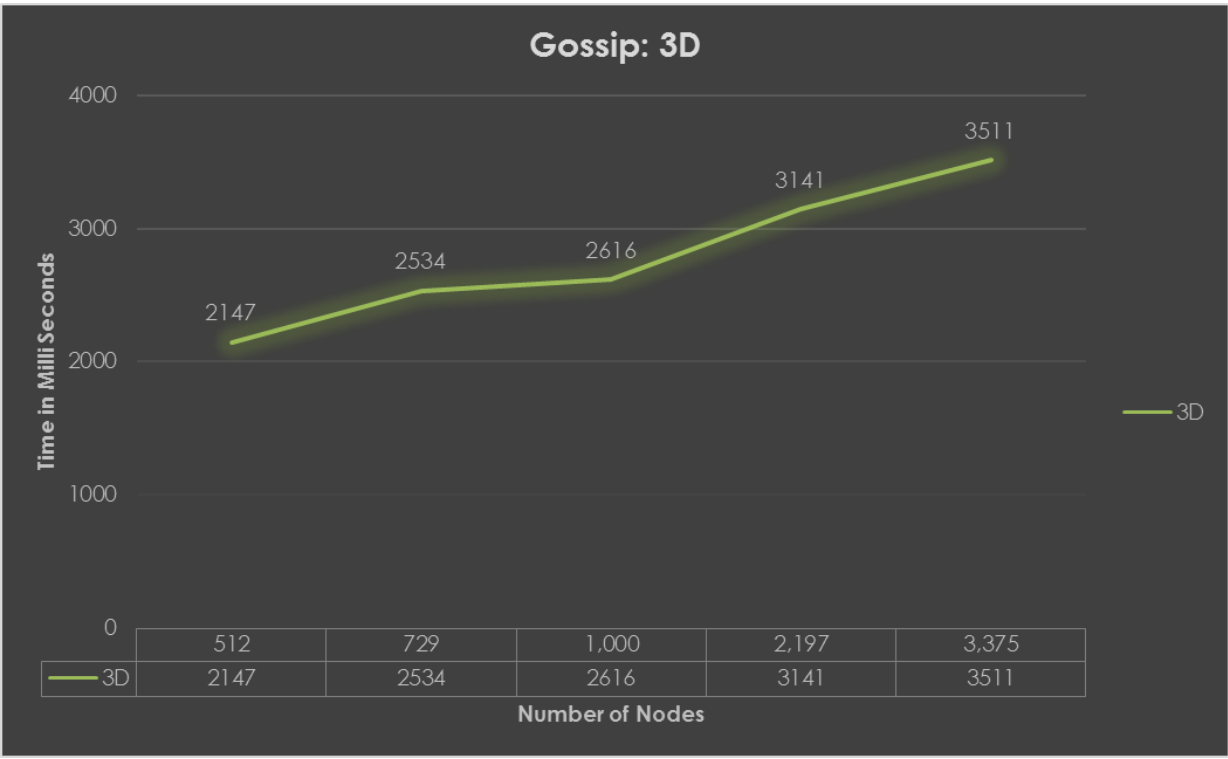
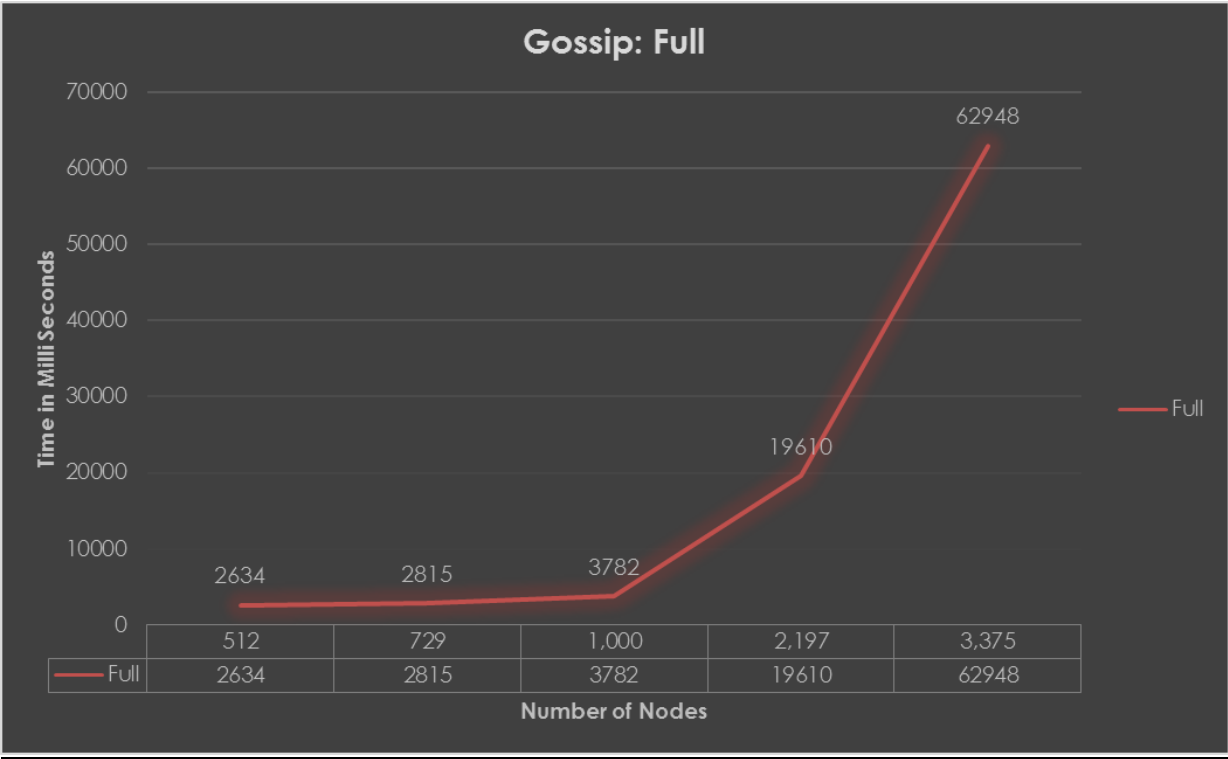


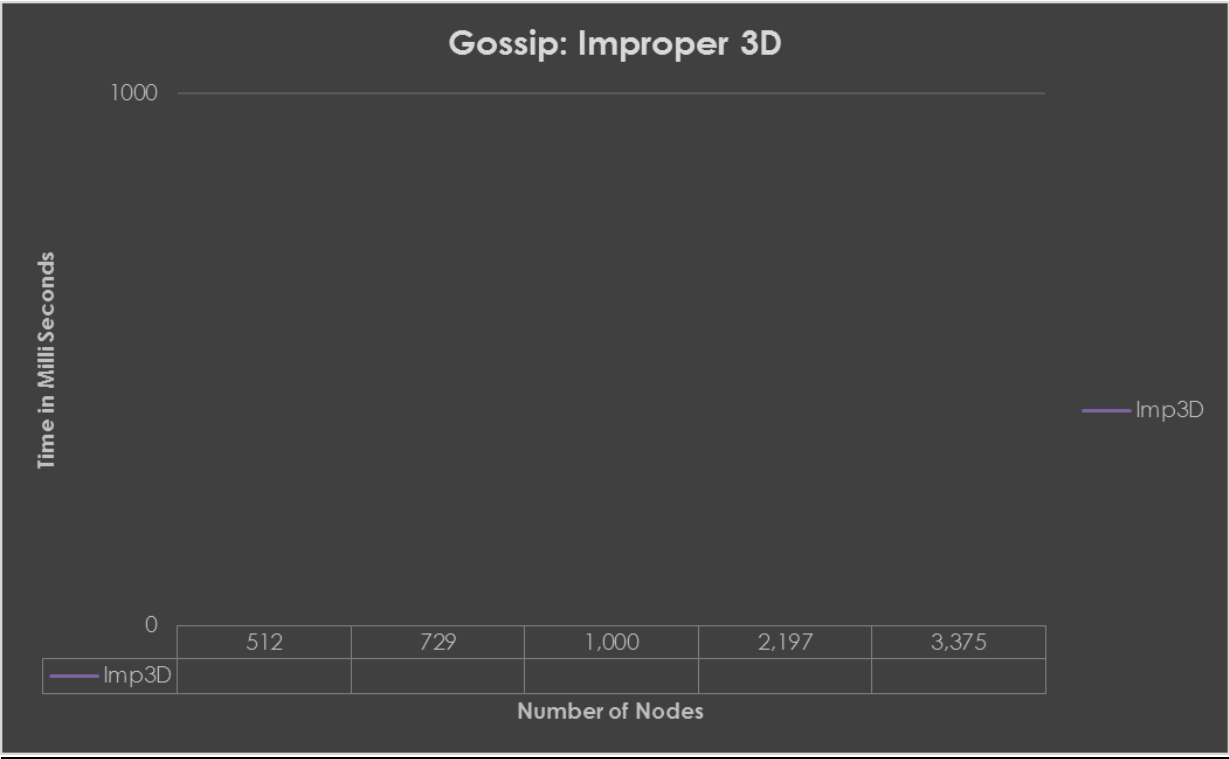
Topology Performance: Gossip & Push-Sum

Group Members: **Umar Majeed:** 96119334 **Gagan Sharma:** 91349422

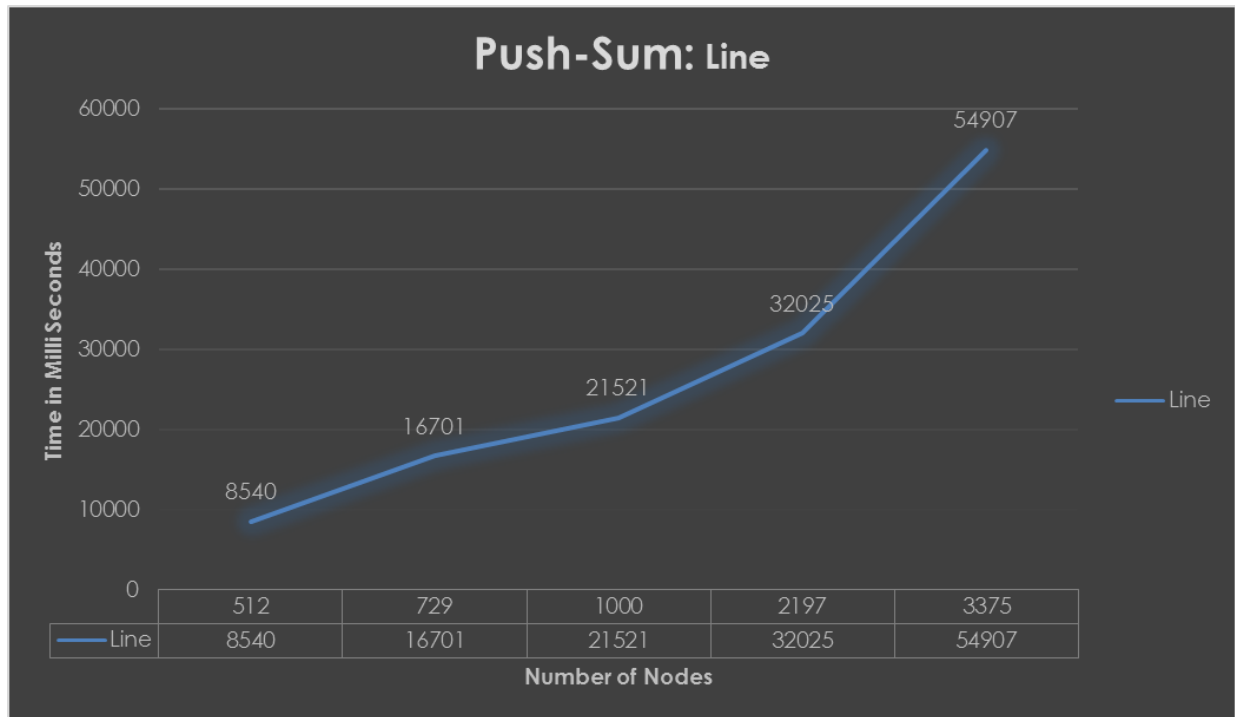
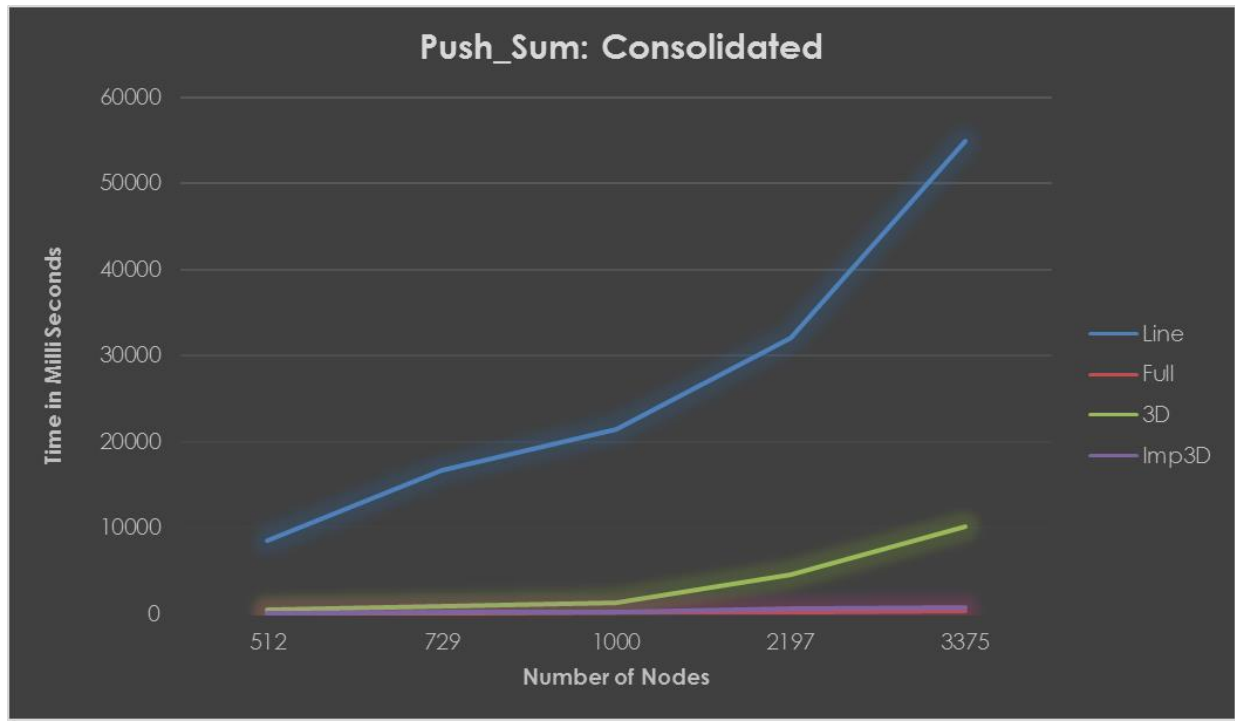
Gossip

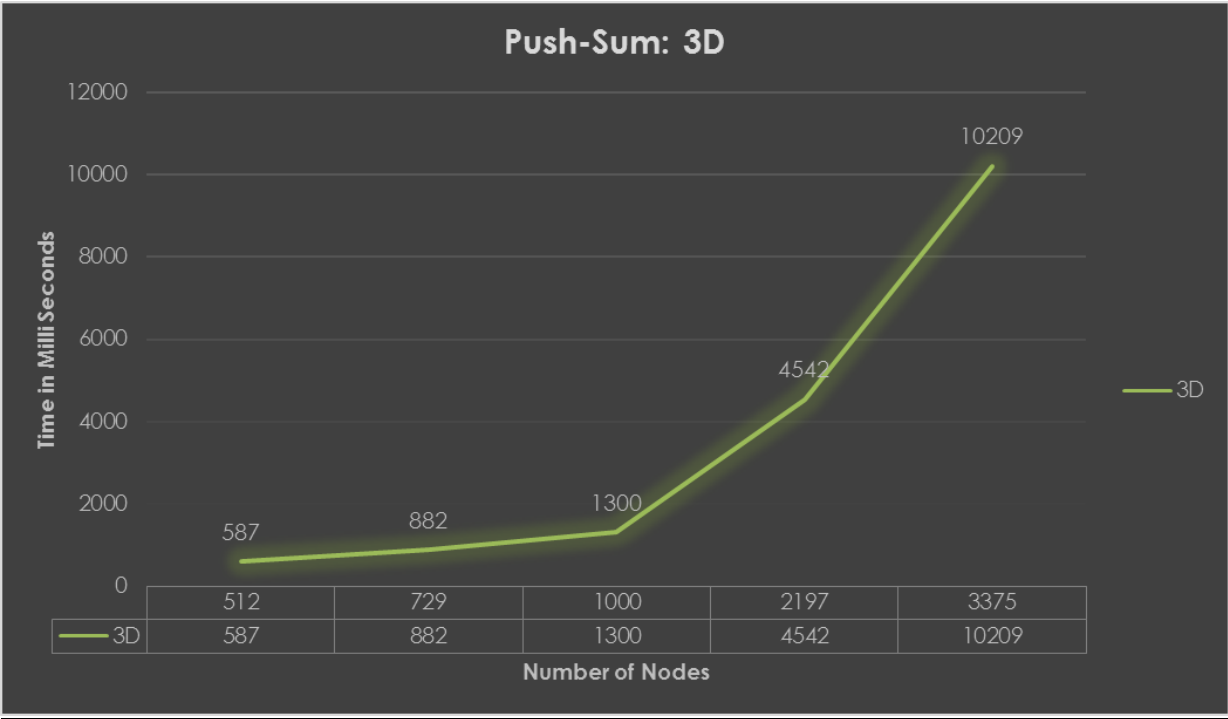
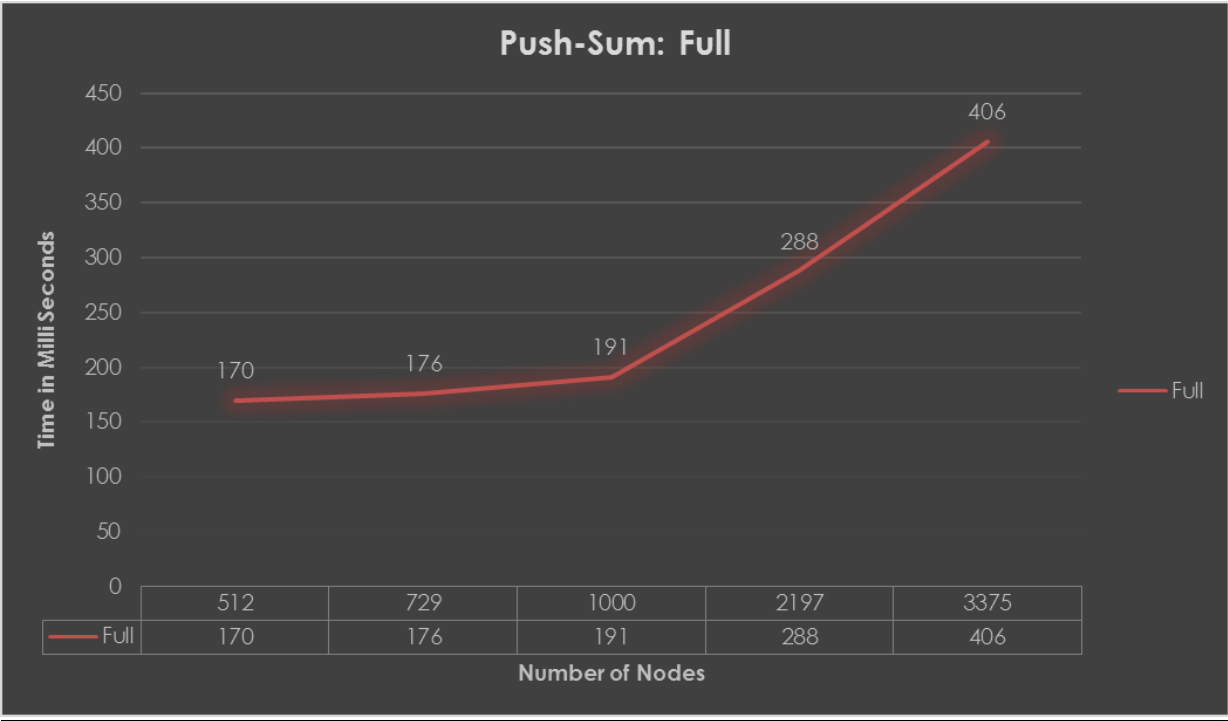


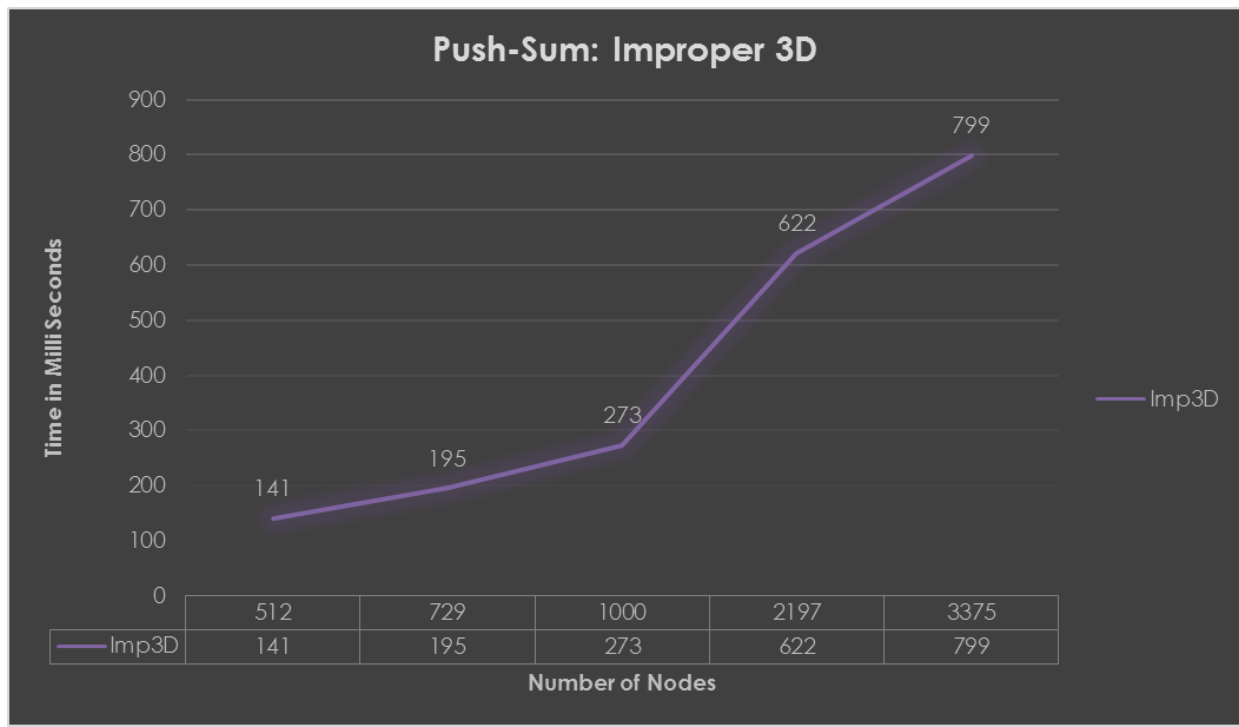




Push-Sum







Analysis

Tested System Config:

OS: Windows 10

Processor: Intel Core i7

RAM: 6 GB

- 1) In Gossip as well as Push-Sum, Line topology takes the maximum time to converge.
- 2) Time taken by Push-Sum was considerably lower than Gossip
- 3) Executing Full topology with Gossip as well as Push-Sum, takes lesser time, but started giving memory errors as soon number of nodes were more than 7,000
- 4) 3D and Improper 3D could easily handle 100,000 nodes