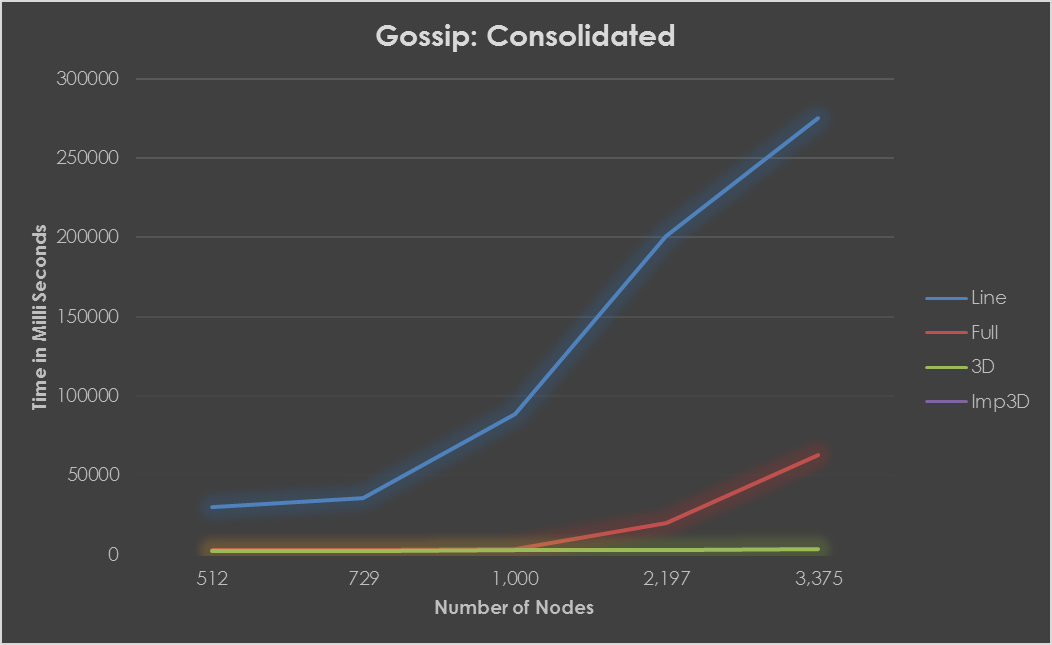
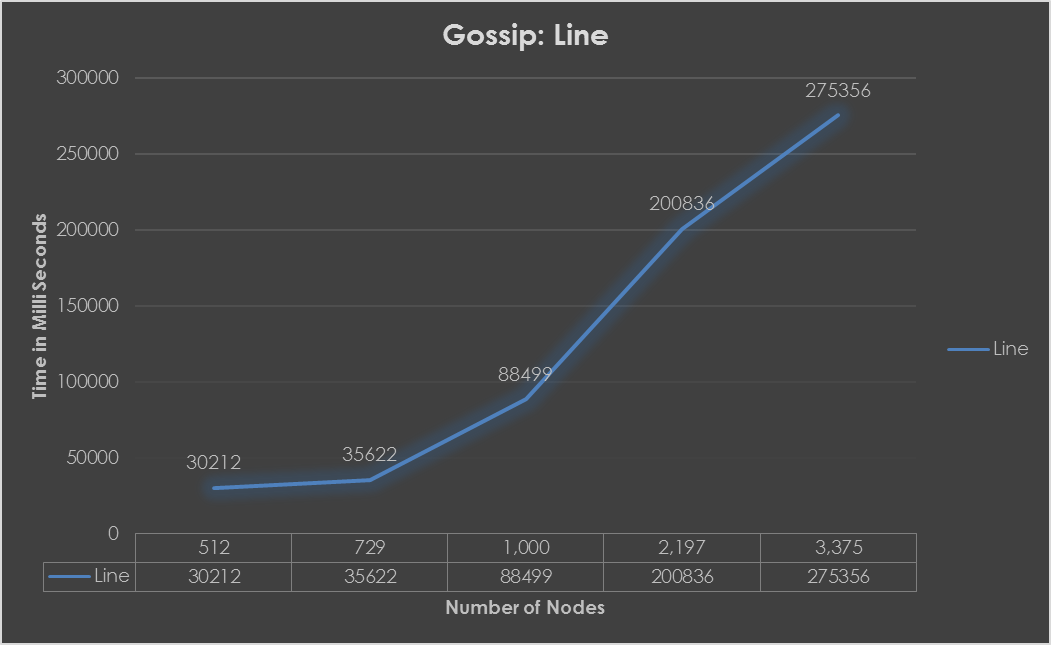
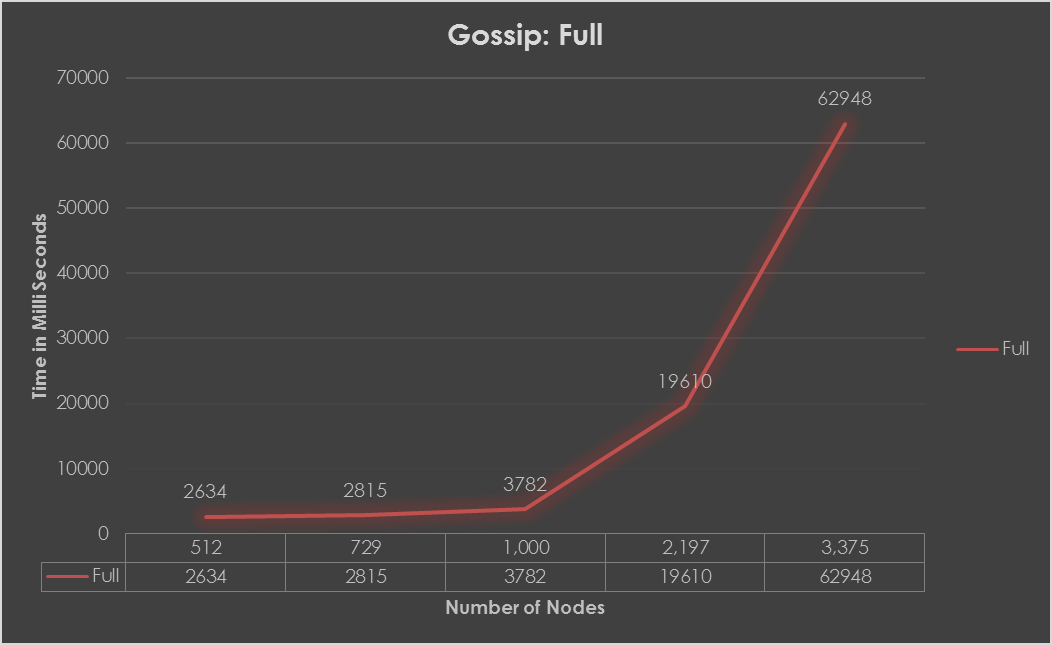
**Topology Performance: Gossip & Push-Sum**

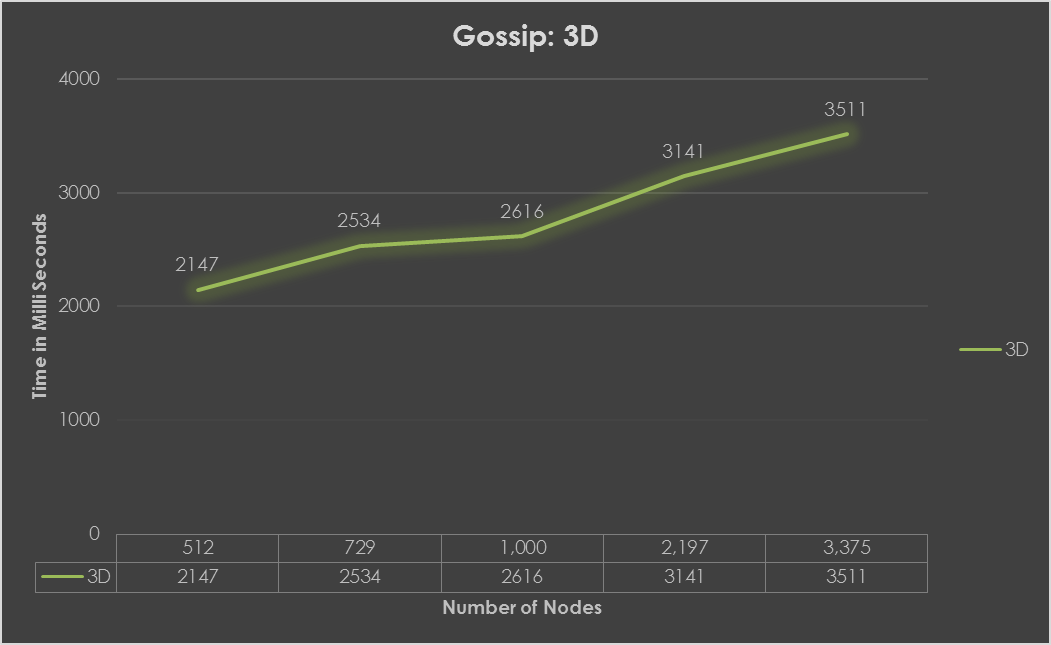
Group Members: ***Umar Majeed****:* 96119334 ***Gagan Sharma****:* 91349422

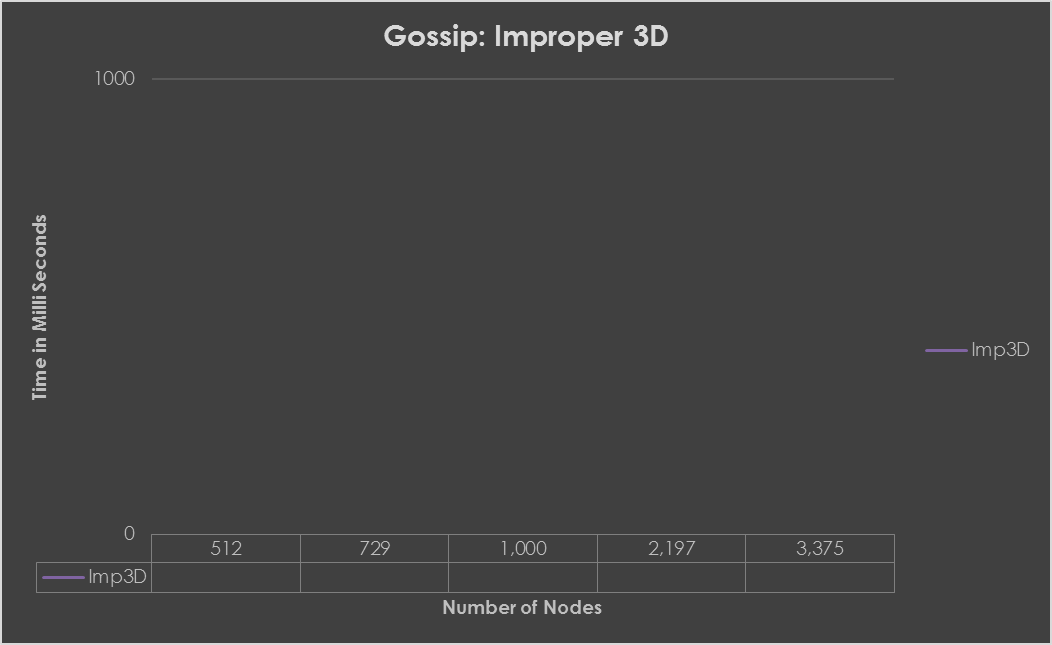
**Gossip**

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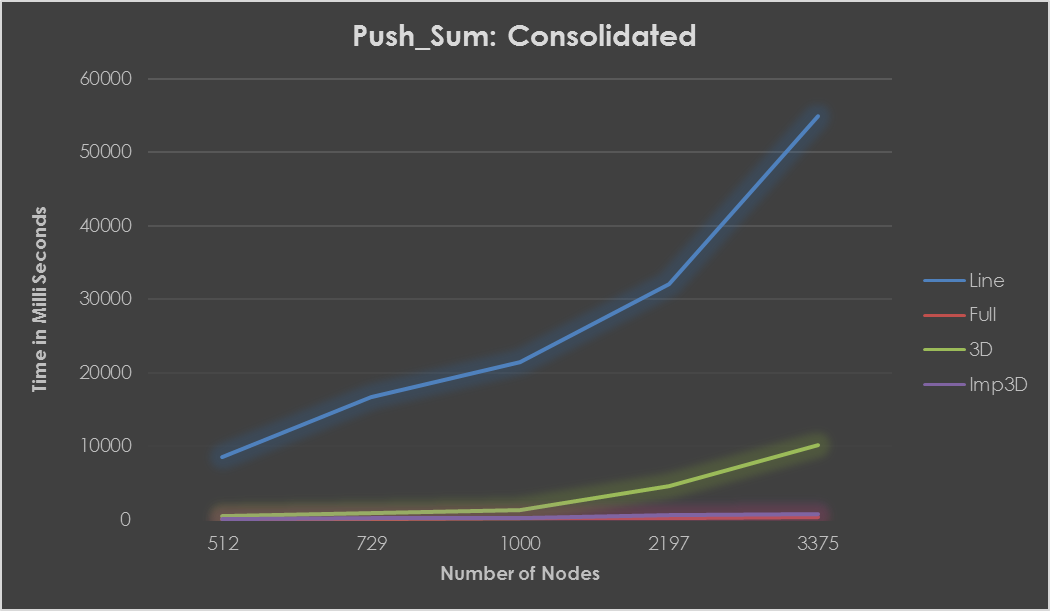
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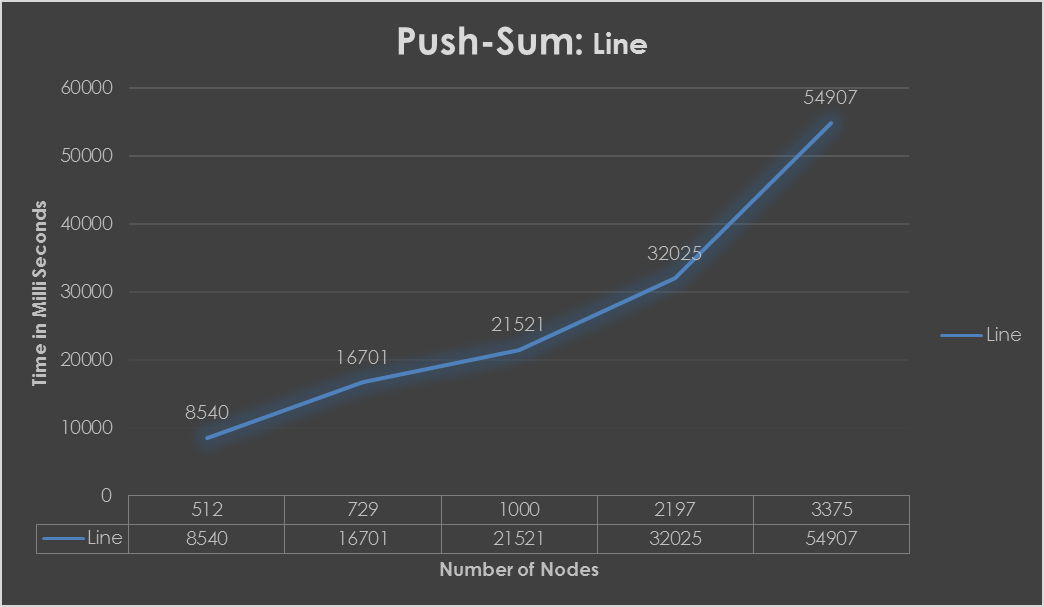
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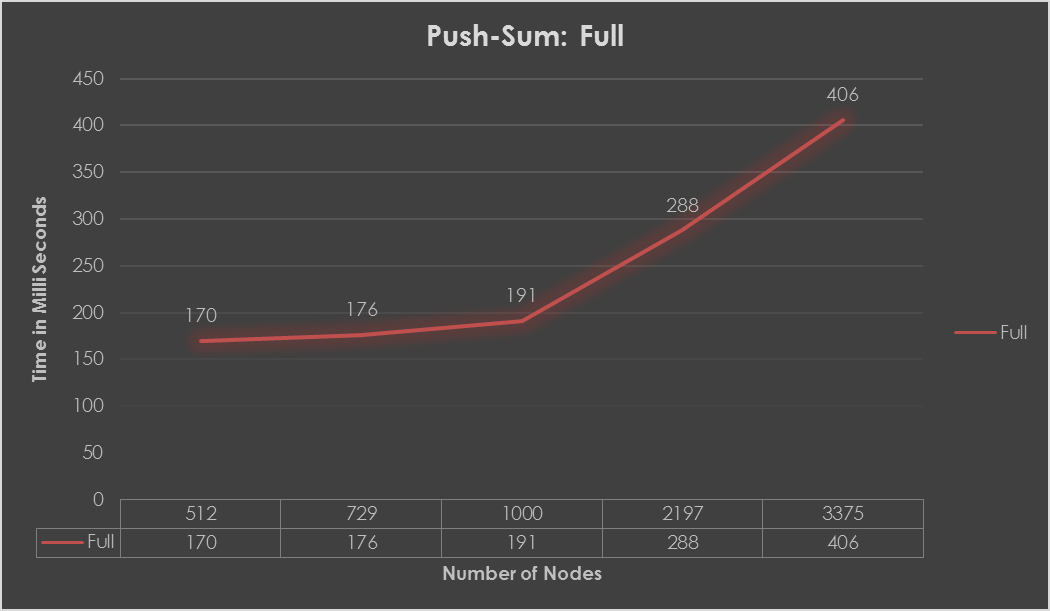
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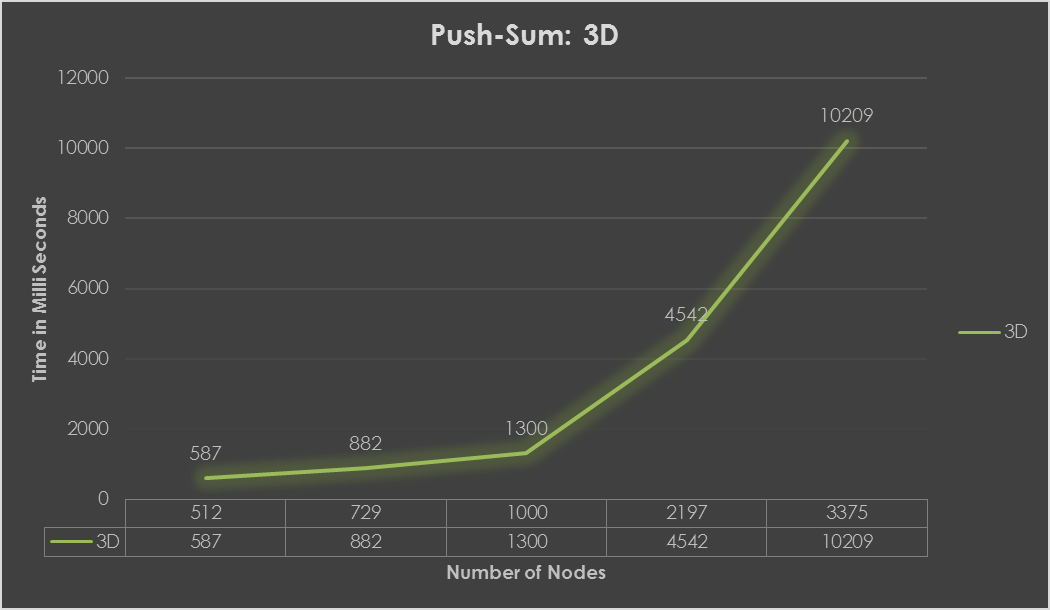
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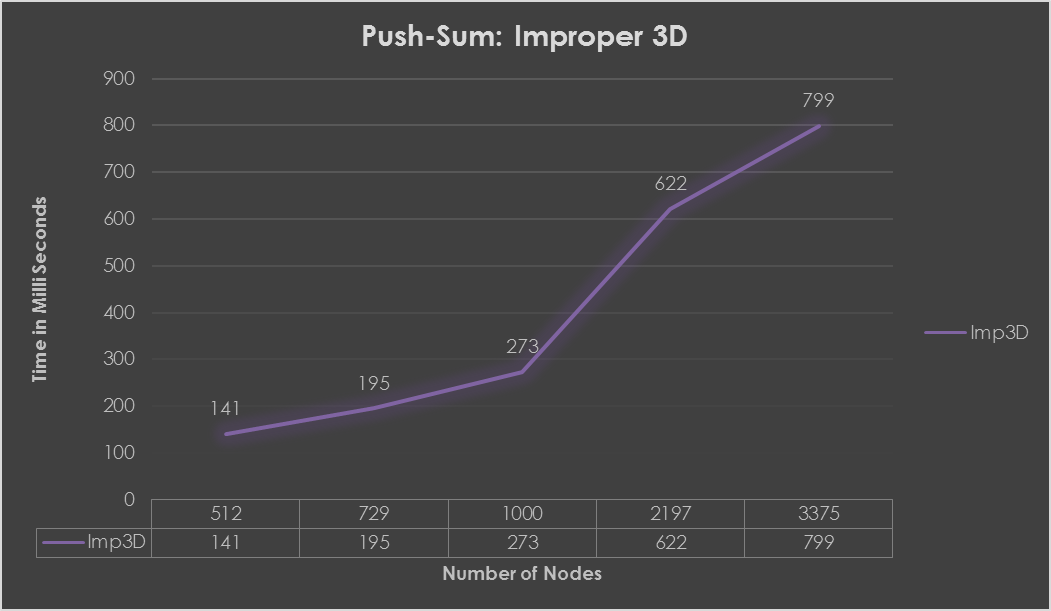
**Push-Sum**

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**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