**Gossip:**

The below table illustrates the number of nodes and the time it took for the nodes to converge for Gossip algorithm.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nodes** | **Line** | | **3D** | | **Imperfect 3D** | | **Full** | |
|  | **Time(ms)** | **% convergence** | **Time(ms)** | **% convergence** | **Time(ms)** | **% convergence** | **Time(ms)** | **% convergence** |
| **8** | **17** | **62.5** | **14** | **87.5** | **38** | **100** | **6** | **100** |
| **27** | **45** | **77.7** | **57** | **96.2** | **62** | **96.2** | **29** | **100** |
| **64** | **80** | **87.5** | **111** | **100** | **95** | **100** | **48** | **100** |
| **125** | **224** | **96.8** | **205** | **99.2** | **219** | **96** | **111** | **100** |
| **216** | **227** | **97.68** | **515** | **99.07** | **354** | **97.2** | **136** | **99.5** |
| **343** | **368** | **99.4** | **422** | **99.4** | **390** | **98.5** | **167** | **100** |

Graph to represent the convergence time (vertical axis) taken as a function of number of nodes(horizontal axis):

**Push-Sum:**

The below table illustrates the number of nodes and the time it took for the nodes to converge for Push-Sum algorithm.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nodes** | **Line** | | **3D** | | **Imperfect 3D** | | **Full** | |
|  | **Time(ms)** | **% convergence** | **Time(ms)** | **% convergence** | **Time(ms)** | **% convergence** | **Time(ms)** | **% convergence** |
| **8** | **483** | **75** | **808** | **75** | **1052** | **87.5** | **18** | **87.5** |
| **27** | **2245** | **81.45** | **4128** | **74.07** | **4343** | **88.88** | **91** | **96.29** |
| **64** | **7572** | **54.69** | **6414** | **81.25** | **6430** | **82.81** | **194** | **98.44** |
| **125** | **2617** | **20** | **9346** | **74.4** | **9873** | **71.2** | **205** | **99.2** |
| **216** | **3061** | **10.18** | **9261** | **56.48** | **24523** | **68.52** | **304** | **99.54** |
| **343** | **5132** | **16.29** | **38871** | **40.82** | **23947** | **57.72** | **595** | **99.71** |
| **512** | **808** | **99.8** |  |  |  |  |  |  |
| **729** | **1014** | **99.8** |  |  |  |  |  |  |
| **1000** | **1841** | **99.9** |  |  |  |  |  |  |
| **1331** | **6476** | **99.92** |  |  |  |  |  |  |

Graph to represent the convergence time (vertical axis) taken as a function of number of nodes(horizontal axis):