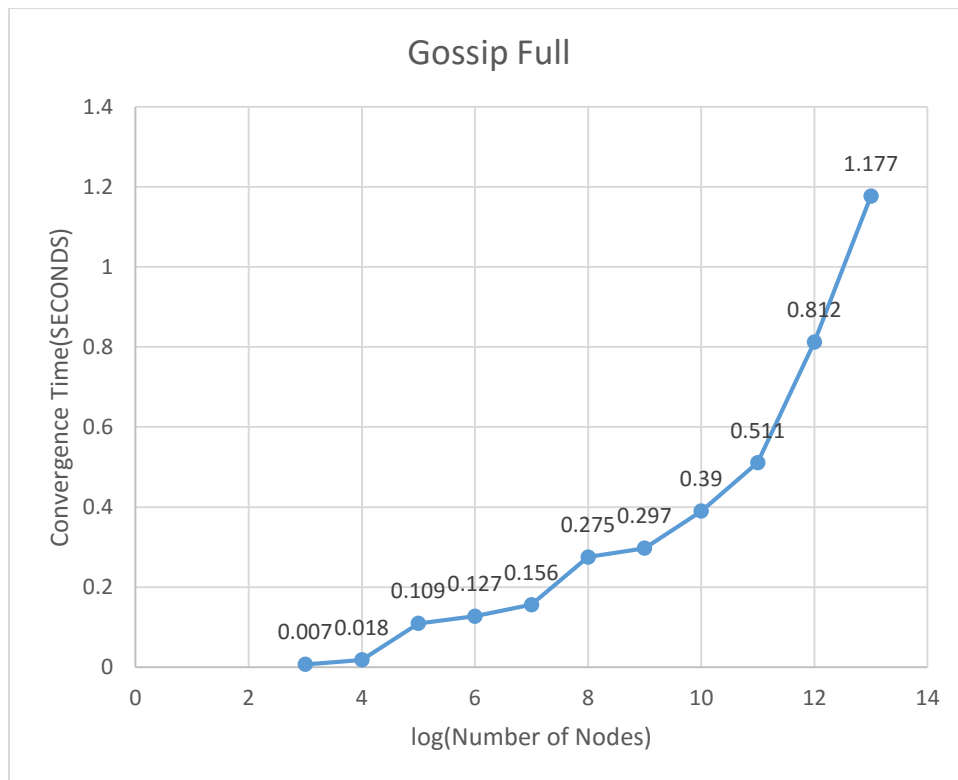
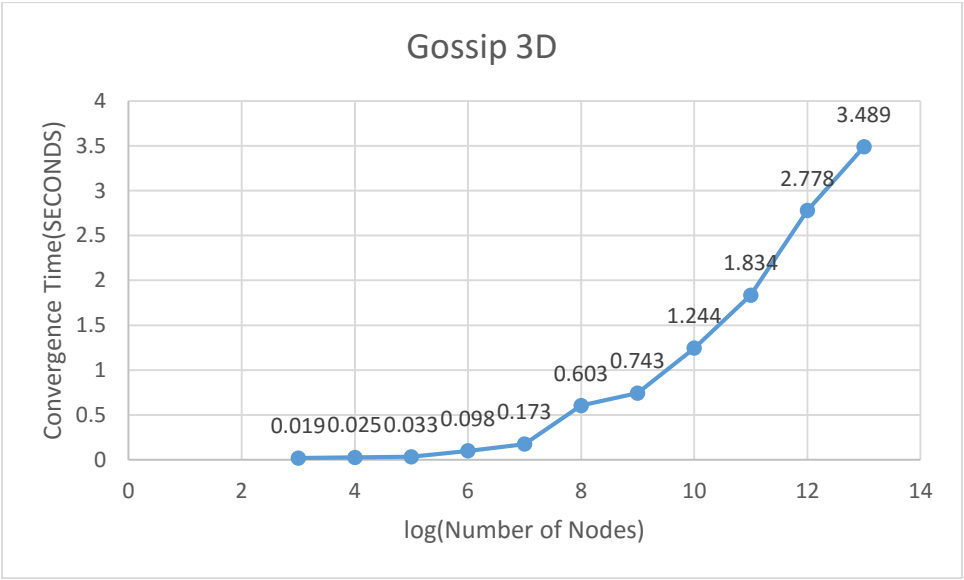
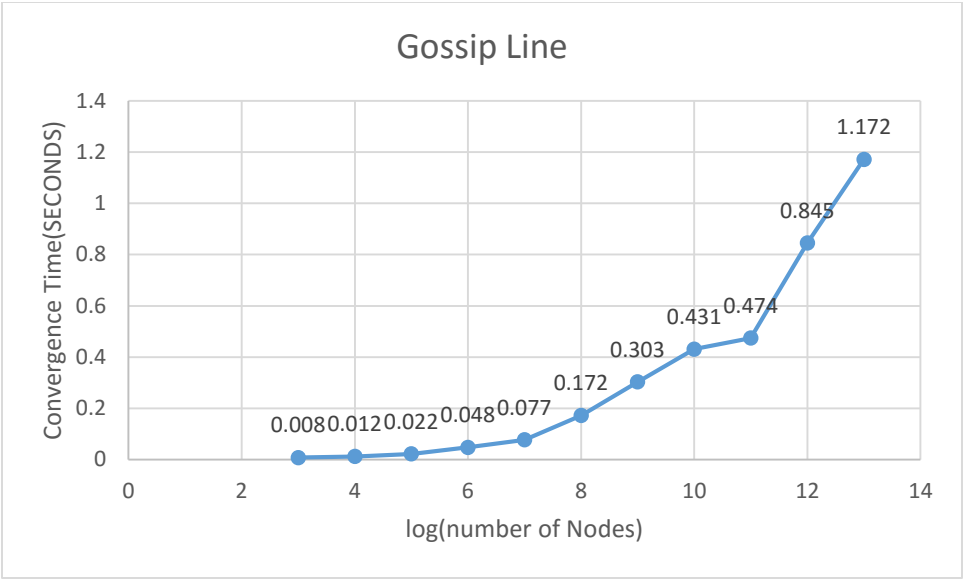
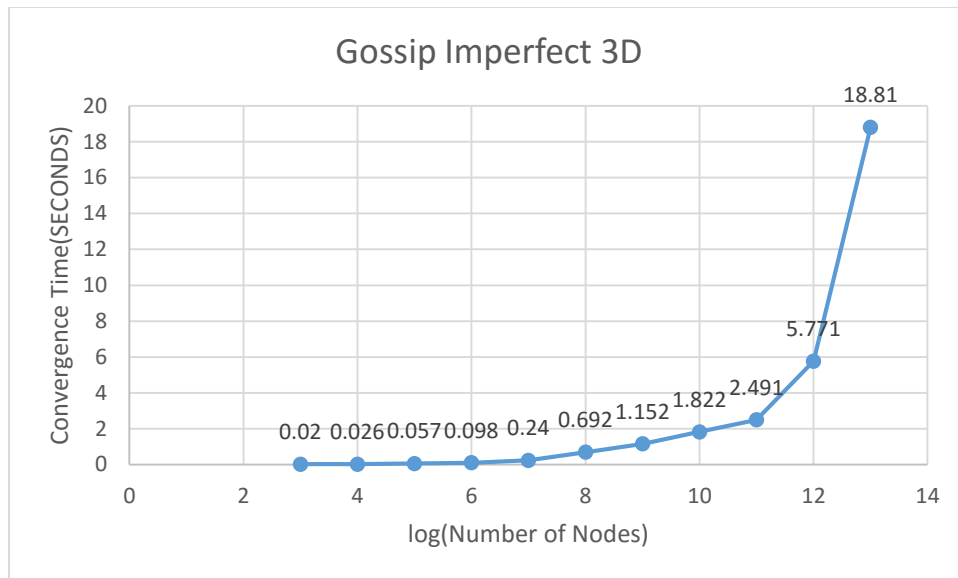


Gossip Implementation

| No: of Nodes | log n | Convergence Time Full(seconds) | Convergence Time Line(seconds) | Convergence Time 3D(seconds) | Convergence Time Imperfect 3D(seconds) |
|--------------|-------|--------------------------------------|--------------------------------------|------------------------------------|---|
| 8 | 3 | 0.007 | 0.008 | 0.019 | 0.02 |
| 16 | 4 | 0.018 | 0.012 | 0.025 | 0.026 |
| 32 | 5 | 0.109 | 0.022 | 0.033 | 0.057 |
| 64 | 6 | 0.127 | 0.048 | 0.098 | 0.098 |
| 128 | 7 | 0.156 | 0.077 | 0.173 | 0.24 |
| 256 | 8 | 0.275 | 0.172 | 0.603 | 0.692 |
| 512 | 9 | 0.297 | 0.303 | 0.743 | 1.152 |
| 1024 | 10 | 0.39 | 0.431 | 1.244 | 1.822 |
| 2048 | 11 | 0.511 | 0.474 | 1.834 | 2.491 |
| 4096 | 12 | 0.812 | 0.845 | 2.778 | 5.771 |
| 8192 | 13 | 1.177 | 1.172 | 3.489 | 18.81 |







Push-Sum Implementation

| No: of Nodes | log(Number of Nodes) | Convergence Time Full(seconds) | Convergence Time Line(seconds) | Convergence Time 3D(seconds) | Convergence Time Imperfect 3D(seconds) |
|--------------|----------------------|--------------------------------|--------------------------------|------------------------------|--|
| 8 | 3 | 0.024 | 0.065 | 0.102 | 0.099 |
| 16 | 4 | 0.044 | 0.297 | 0.271 | 0.205 |
| 32 | 5 | 0.072 | 0.998 | 0.298 | 0.038 |
| 64 | 6 | 0.101 | 1.727 | 0.856 | 0.521 |
| 128 | 7 | 0.243 | 2.413 | 1.375 | 0.837 |
| 256 | 8 | 0.252 | 4.157 | 0.217 | 1.312 |
| 512 | 9 | 0.048 | 14.881 | 4.616 | 2.356 |
| 1024 | 10 | 0.661 | 84.001 | 1.499 | 3.408 |
| 2048 | 11 | 0.687 | 43.613 | 35.671 | 6.867 |
| 4096 | 12 | 0.121 | 106.992 | 119.892 | 18.675 |
| 8192 | 13 | 1.603 | 184.102 | 380.697 | 5.482 |

NOTE: THE Y AXIS is Convergence Time(SECONDS)

X Axis is the log(Number of Nodes)

