

Project 2

README

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Algorithms and Topologies included:

Gossip:

1. Line
2. Full Network
3. Grid
4. Imperfect Grid

Push-sum:

1. Line
2. Full Network
3. Grid
4. Imperfect Grid

The executable included in the project can be run as follows:

project2 numNodes topology algorithm

:: ./gossip numNodes line|full|grid|i_grid gossip|pushsum

Failure models were also implemented in this project and can be run as follows:

project2 numNodes topology algorithm percentage

where our parameter for analyzing failure of nodes is percentage of total failed nodes in network (1-50%)

:: ./gossip numNodes line|full|grid|i_grid gossip|pushsum percentage(1..50)

Networks dealt with, for the following topology and algorithm

<u>Gossip</u>	<u>Push-sum</u>
1. Line - 512	1. Line - 256
2. Full Network - 100000	2. Full Network -1024
3. Grid - 100000	3. Grid - 4096
4. Imperfect Grid - 100000	4. Imperfect Grid – 4096