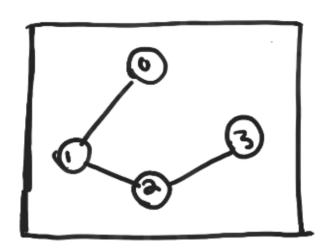
SSD Final Project Design



Network Sim:

-graph data structure -node/edge info gets populated from parsed text file (example):

Line 1: # of total nodes

Line a: Node ID

Line 3: Service time (tria)

Line 4: message gen rate (expo)
Line 5:# of edges

Line biedge connections

- Routes messages by getting shortest path from algorithm data
- collect stats on performance

- Linned 11st implementation - adjacency List classes: · represented by nodes

· unique ID

· processes messages

· FIFO/SSSO queuing model · reports its own statistics

Network

· handles message routing · 3 routing methods :

- shortest path : gets sh est path from source to all other nodes

-all edge weights equal
-modified shortest path: recomputes
shortest path at each node
-edge weights=queue size
-dynamic

-"actual" reuter: method that takes the returned path vector from the Static /dunamic alporithms

to get the valid path -populates graph data structure from parsed file

FIFO Queue

- statistics reporting: -max q size, ang size, ang wait

Wessage

- statistics reporting:

- aug wait time, aug comms time

- heeps trach of source, dest nodes

and creation, dest, wait times

- once mso, openwated, router called

to get where its going