

## Stat Container

public fn. to add Computers to list  
 fn for adding messages  
 Display fn.

priv.  
 List of computers to report  
 List of messages to report.

## To add to Computer Class:

Total ServiceTime  $\rightarrow$  time var that is sum of service times  
 int numServed  $\rightarrow$  total messages served.

void fn to add ptr to stat container.

fn to return Utilization =  $\text{totalServiceTime} / \text{SimTime}$

fn to return avgServiceTime =  $\text{totalServiceTime} / \text{numServed}$ .

added to StartServiceEm, if at final destination,  
 set message end time to SimTime  
 add to Statcontainer.

## To add to message class

vars for creation time, end time, total wait time, enter @T, exit @T,  
 avg wait time

Continued to page

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PROPRIETARY INFORMATION

Fifo gets function for message queues.

When it receives a message, it sets enterQT to current sim time.

When a message is retrieved, it returns current sim time

total wait time increases by ~~exitQT - enterQT~~ ~~num served~~  

$$\underbrace{(\text{exitQT} - \text{enterQT})}_{\text{Time in Queue}}$$

Fifo has fn, returns max size.

fn returns avg size  $\left( \frac{\text{total of all sizes summed}}{\text{num messages}} \right)$

Gets avg time in Q  $\left( \frac{\text{total of wait times}}{\text{num messages}} \right)$

Stat holder output

{ iterate thru PC and output PC & fifo stats  
 { iterate through msg stats & output.

Output average stats

make optional?

Continued to page

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