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Data Structures and Algorithms II

Project 2

Users Manual

Setup and Compilation

1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.
2. The submission includes:
   - main.c
   - functions.c
   - functions.h
   - FunctionalDecomposition.txt
   - makefile
   - UsersManual.docx (this document)
3. Environment: This program was designed and tested on Eclipse. It has also been tested in in the Linux lab and does work as expected.
4. This program includes a Makefile. At the command line in Linux, type make. The program produces an executable entitled Project2.

Running the program

Make sure all files included in the downloaded zip file are in the same directory. While in the Linux Lab, navigate to the folder containing all of the files associated with Project2 and issue the command "./Project2". Command line input is required.

User input: The user will be asked to input the values for the number of arrivals to simulate (n), the average arrivals in a time period (lambda), the average number served in a time period (mu), and the number of service channels (M).

Output: All output goes to the console. Output will be similar to this:

Analytical Model Results
Po = 0.50
L = 0.75
W = 0.38
Lq = 0.08
Wq = 0.04

Simulation Results
Po = 0.80
W = 0.39
Wq = 0.01
Rho = 0.83