CS 3220-AM,BM,CM: Operating Systems

Quiz 3

Jun 24th, 2021

(**Total Score**: 4 points)

(**Questions**: 1)

(**Duration**: 5 minutes)

Instructions:

Please turn off all your phones and electronic devices and keep them inside. This is a Closed Book/ Closed Notes Quiz. Write your Name and Student ID on all Quiz sheets. Usage of Scientific Calculators is allowed. Labels of all figures and tables are mentioned below the figures and tables respectively. Show all your working where required. Provide all numerical results with two digits of precision only.

Q 1. How can it be determined if a Process is likely to be CPU-bound or I/O-bound by analyzing its source code? **(4 points)**

A 1. If the source code of the Process contains several or long computations (e.g. formulas), then the Process is likely to be CPU-bound. However, if it contains commands like *while (condition)*, *sleep*, *wakeup*, *down*, *up*, *read*, or *write*, then the Process is likely to be I/O-bound.