CS370 – Assignment 4, TP-D3 and TP-D4 Help Session
Spring 2016
Assignment 4 Review

• Objective
  – FCFS
  – SJF Non-Preemptive
  – SJF Preemptive
  – Priority Scheduling
  – Lottery Scheduling

• Calculate
  – Turnaround time per process
  – Average Turnaround time
  – Average Waiting time
  – Throughput

• Check in single zip or tar file with
  – All .c and .h files related to assignment
  – Makefile (having targets all and clean) and README
Assignment 4 Review

• Reading given input file for Process Id, Arrival Time, Burst Time, Priority and Range of tickets.
  – Sample line from input file
    1,39,50,27,9959 – 10000
  – Parameters from input file
    • Process id : [1-1000] and [1-1500]
    • Arrival time : [1-100]
    • Burst time: [1-50]
    • Priority: [1-50] (Smaller number with higher priority)
    • Range of tickets: [0-100000]

• Output should be reporting turnaround time, average turnaround time, average waiting time and throughput

• Optional : Try to print Gantt chart
TP-D3 Review

- TP-D3
  - Enabling SSH for remote access
    - Terminal access, Not full GUI access
    - Need to install VNC for full GUI access (not the part of the TP-D3)
  - Configuration
    - Connect Raspberry Pi to network using Ethernet
    - Run `sudo raspi-config`, navigate to SSH, select Enable/Disable SSH Server.
  - Either use home network or NetSec Lab (CS 315)
    - Home Users: Find IP address of Raspberry Pi by accessing router or by command `arp -a`
    - NetSec Lab (CS 315) users should get static IP address from Tas.
TP-D3 Review

• Things to submit
  – Submit microSD card with necessary info
    • Login credentials for user pi
    • Mention name of deliverables e.g. TP-D3
    • You can submit both deliverable together like TP-D3 and TP-D4, but before the deadline of TP-D3.
  – Submit screenshot
    • You are at terminal of your machine
    • SSH to Raspberry Pi ssh <username>@<hostname>
    • Content of interfaces file
cat /etc/network/interfaces
TP-D4 Review

- TP-D4
  - Enabling WiFi using terminal
    - Recommended to SSH and edit file to enable WiFi
  - Configuration
    - Connect WiFi adapter to USB port of Raspberry Pi
    - Edit `wpa_supplicant.conf` to add SSID and password.
    - Use csu-guest network to connect to WiFi, no password is needed.
  - Things to submits
    - microSD card with necessary info on it
    - Again, don’t use your ePassword anywhere.
References

- http://wiki.osdev.org/Scheduling_Algorithms
- http://www.tutorialspoint.com/operating_system/os_process_scheduling_algorithms.htm
- http://www.modmypi.com