COEN 12 Lab

Introduction & Lab 1

TA

Jinhao Wang	jwang11@scu.edu	Thursday, 12:30pm-1:30pm	zoom
Fangfang Lin	flin2@scu.edu	Wednesday, 12pm-2pm	zoom
Sarah Anjum	sanjum2@scu.edu	Tuesday, 10:30am-11:30am	zoom
Tianxin Zhou	tzhou@scu.edu	Thursday, 12pm-1pm	Heafey 203
Yangzhang Zhou	yzhou5@scu.edu	Friday, 1pm-2pm	zoom
Yuanzhi Li	yli16@scu.edu	Tuesday, 1pm-2pm	zoom

Labs

- Lab1: week 1, 10%
- Lab2: week 2 & 3, 20%
- Lab3: week 4 & 5, 20%
- Lab4: week 6 & 7, 20%
- Lab5: week 8 & 9,20%
- Lab6: week 10, 10%
- Instructions & required tar file will be uploaded Sunday night or Monday morning before each lab. Please go over the instructions and try to start working on it before the lab.

Term Project

- Grade goes to the lecture, not the lab.
- Starting in 5th week.
- Show us your design in 8th week (30% grade).
- Submit your code by Sunday midnight in 10th week.

ECC Linux workstations

- All submissions need to be executable on our lab workstations.
- Windows User: make sure you have PUTTY installed.
- MacOS User: Terminal
- ECC Remote: SSH or PUTTY
- Linux Tutorial: command line, directory, vi text editor…
- A self test for your C programming skills

Submission

- Deadline
  - Sunday midnight (1st, 3rd, 5th, 7th, 9th, 10th).
  - Late penalty: TBD.
- Demo
  - Before the end of the lab AFTER the submission due date.
  - You can demo during TA's office hours too.
- Submission
  - Tar file except the first lab
  - Download your submission after uploading to the camino. Double check if you submitted the correct file!

Grading

- Correctness 60%
  - Compilable & executable on ECC workstation (Demo - 30)
  - No redundant code (ex. Pointless if…else…)
  - No memory leak (deallocate memory allocated by you)
- Clarity 20%
  - Naming convention
  - Indentation
- Commenting & style 20%
  - Commenting block at the top: file name, author, date, description
  - Don’t comment every line of the code
  - Comment each logic block (functions)
  - Big-O for each function (except lab 1)

Lab 1: Counting the Number of Words

- Create count.c with your code to count the words of a text file
  - Recommend using "fscanf": no need to consider special characters
- Compile and run
  - gcc count.c
  - ./a.out /scratch/coen12/Macbeth.txt
- Output
  - 18464 total words
- Your program should be able to count the number of words of all the text files under /scratch/coen12
- Submit count.c