COEN 12 Lab

Introduction & Lab 1

TA Office Hours

Nolan Anderson	nranderson@scu.edu	Mon, 1-2pm	Heafey 224
Akaash Meghraj Trivedi	atrivedi2@scu.edu	Tues, 1-2pm	Heafey 203
Rani Rajurkar	rrajurkar@scu.edu	Tues, 4-5pm	Heafey 203
Tianxin Zhou	tzhou@scu.edu	Wed, 1-2pm	Heafey 224
Aristos Xanthus	axanthus@scu.edu	Thurs, 1- 2pm	Heafey 215

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 & needed source files will be uploaded at 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 the 5th week.
- Show us your design in 8th week (30% grade).
- Submit your code by Friday 5pm 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, Graphical interface
- 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. (We had seen too many empty tar files uploaded.)

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 with file name, author, date, and a program 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
  - ("/scratch/coen12/" is a public directory that all student's accounts have access to)
- 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