Lab Introduction

2018 Fall
Joonwon Lee
Introduction

▪ Schedule
  • 12:00 – 13:15 (Wed.)
  • Workstation room: #400202, Semiconductor Bldg.

▪ Course Homepage
  • [http://csl.skku.edu/GEDB029F18-41/Overview](http://csl.skku.edu/GEDB029F18-41/Overview)
  • Lecture slides, announcements, exam scores, etc.
  • Check the website regularly.
  • i-Campus will only be used for submitting assignments.
Introduction

- **TA**
  - Junho Lee, Semiconductor Systems Engineering
  - crow6316@gmail.com
  - #85465, Corporate Collaboration Center
  - Please contact me first by email.
Introduction

▪ C Programming
  • Most important programming language
  • Used on every major OS
    – Windows, Mac, Linux, ...
  • Basis of other languages
    – Objective-C, C++, C#, ...
  • We will learn C syntax and basic programming skills.

▪ Environment
  • OS: Linux (Ubuntu)
Introduction

▪ Grading Policy

• Attendance: 5%
• Lab Exercise: 10%
• Individual Programming Assignments: 30%
• Team Programming Assignments: 15%
• Final Exam: 40%

• It is subject to change.
Introduction

- **Weekly Exercises**
  - 1~3 problems per week
  - Due: 1:30 PM

- **Assignments**
  - 4~5 assignments per semester
  - Due: After 1 week
  - It is subject to change.
Basic Shell Commands

- **Overview**
  - `pwd` – print working directory
  - `ls` – list
  - `cd` – change working directory
  - `mkdir` – make new directory
  - `rm` – remove
Basic Shell Commands

- **Change Working Directory (cd)**
  - `cd ..`
    - Go to upper directory
  - `cd [directory name]`
    - ex) `cd workspace/week13`
  - `cd`
    - Go to previous working directory

- **mkdir & rm**
  - `mkdir [directory name]`
  - `rm [file name]`
  - `rm -r [directory name]`
Basic Shell Commands

- **Vim Editor**
  - `vim [file_name]`
    - ex) `vim main.c`
    - Either creates a new file name
    - Or open existing file
  - `sudo apt-get install vim`
    - If Vim is not installed

- **Command Mode ↔ Insert Mode**
  - "i"
    - Command → Insert
  - Esc
    - Insert → Command
Basic Shell Commands

- **In Command Mode**

  - `:w`
    - Save file
  - `:wq`
    - Save and quit
  - `:q`
    - Quit
  - `:q!`
    - Quit without saving
Basic Shell Commands

- **Compile**
  - gcc [source file]
    - ex) gcc main.c
    - Output file: a.out
  - gcc [source file] -o [output file]
    - ex) gcc main.c -o my_program
    - Output file: my_program

- **Run Program**
  - ./[output file]
    - ex) ./a.out
    - ex) ./my_program
Basic Shell Commands

- Hello World!

```c
#include <stdio.h>

int main(void)
{
    printf("Hello World!\n");

    return 0;
}
```