

SERVER PROGRAMMING

Jo, Heeseung

Class Materials

<https://cslab.cbnu.ac.kr>

- <http://software.cbnu.ac.kr> > 학과소개 > 교수진소개 > 조회승
- Check "Notice" and "Schedule" before every class
 - Everything will be posted
- Class materials will be updated frequently
 - After class it might be finalized

Instructor

- Jo, Heeseung (heesn@cbnu.ac.kr)
- <https://cslab.cbnu.ac.kr>
- Room#327, S4-1 Bldg.
- Tel: 043-261-3757
- The best way to contact me is via email

Course Description

This course aims to provide students with a comprehensive understanding of server programming, from basic concepts to practical skills applicable in real-world scenarios.

This course covers various topics related to the design and implementation of server programs based on [Linux](#) systems and the [C programming language](#), and includes hands-on practice through actual projects.

Topics & Materials

Course overview (Syllabus)

Operating system review

Unix introduction

Linux install

Basic commands

Development environment 1

Development environment 2

File I/O

File system

Process 1

Process 2

Thread

Socket programming 1

Socket programming 2

Utilizing open-source software

Understanding web server

Prerequisites

Prerequisites

- C language

You should be familiar with the followings:

- Linux system
- System software (Recommended)
- Computer architecture (Recommended)
- Operating systems (Recommended)

- C programming skills
- C programming skills
- C programming skills
- ...

Time Table

| 교시 50 | 일 | 화 | 수(50) | 목 | 금(50) |
|-----------------------------|--|--|--|---|-------|
| 0교시 08:00 ~ 08:50 | | | | | |
| 1교시 09:00 ~ 09:50 | | | | | |
| 2교시 10:00 ~ 10:50 | | | | | |
| 3교시 11:00 ~ 11:50 | | | | | |
| 4교시 12:00 ~ 12:50 | | | | | |
| 5교시 13:00 ~ 13:50 | | 시스템소프트웨어 5118015-02 조희승 S4-1-106(21-106) 5교시 | 서버프로그래밍 5120017-01 조희승 S4-1-201(21-201) 5교시 | | |
| 6교시 14:00 ~ 14:50 | | 시스템소프트웨어 5118015-02 조희승 S4-1-106(21-106) 6교시 | 서버프로그래밍 5120017-01 조희승 S4-1-201(21-201) 6교시 | | |
| 7교시 15:00 ~ 15:50 | 시스템소프트웨어 5118015-01 조희승 S4-1-104(21-104) 7교시 | 시스템소프트웨어 5118015-01 조희승 S4-1-104(21-104) 7교시 | | | |
| 8교시 16:00 ~ 16:50 | 시스템소프트웨어 5118015-01 조희승 S4-1-104(21-104) 8교시 | | | 서버프로그래밍 5120017-01 조희승 S4-1-201(21-201) 8교시 | |
| 9교시 17:00 ~ 17:50 | | | 시스템소프트웨어 5118015-02 조희승 S4-1-106(21-106) 9교시 | 서버프로그래밍 5120017-01 조희승 S4-1-201(21-201) 9교시 | |
| 10교시 18:00 ~ 18:50 | | | | | |

Textbook

Most class materials will be provided

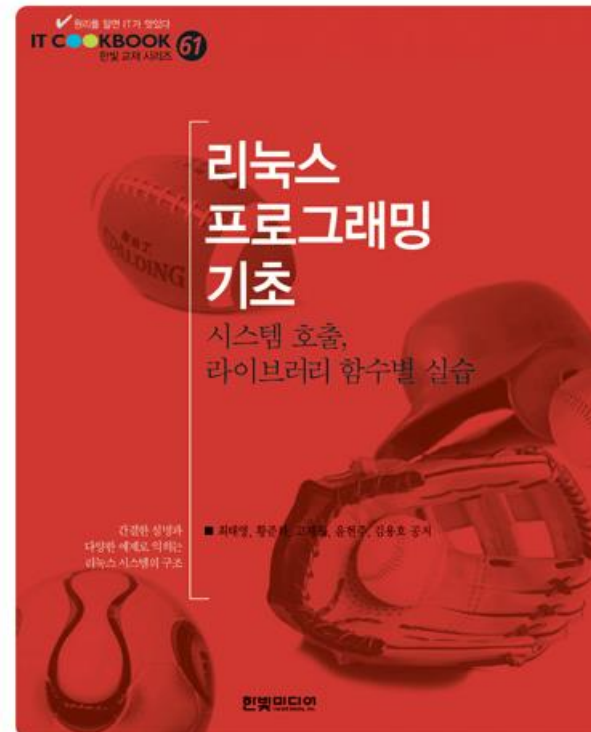
유닉스 시스템 프로그래밍

- 이종원, 한빛미디어



리눅스 프로그래밍 기초

- 최태영 외, 한빛미디어



Class server

swist1 swist2

- Class server machine will be provided for a semester
- Support a user account, no container or VM
- No backup
- We are not and will not guarantee your data safety

Grading

Grading ratio (subject to change)

- Exams: 50-70% (two exams)
- Project: 20-40%
- Etc: 10%

No cheating

- Sharing or copying of solutions is not allowed
- Of course, cooperation on exams is not allowed
- Definitely F + alpha

Attendance Policy

Do not be late!

- You should be present when I take class attendance

You can miss the class up to "three" times without any penalty

- More than 3 times, then D

Reserved Seat in Class

- We will use reserved seat in this class for this semester
- Your seat will be reserved at the next class

TA

TA

- TBA

TA class

- Ask helps anything !
- Homework submission
- Solving homework
- Questions about the class

Before Start

Linux/Unix ??

- How does it work?

How can we build a program on a server machine?

How does a C program run on a machine?

How can we make server programs?