

Operating Systems

Lab. Class
Project #2-2

Project Plan

- 5 projects
 - Install xv6
 - System call
 - **Scheduling**
 - Static Priority-Based Scheduling
 - **Dynamic Priority-Based Scheduling**
 - Virtual memory
 - Concurrency
 - File system
- Individual projects

Project Assignment #2-2: Linux 2.4 Scheduler

- Implement **Linux 2.4 scheduler** on xv6
 - The highest goodness() weight process is selected for next running
 - **Tiebreak: Early created process**
- Entering scheduler when
 1. Exiting process
 2. Sleeping process
 3. Yielding CPU
 4. ~~Changing priority~~

Project Assignment #2-2 Template Code

- git clone <https://github.com/jinsoox/xv6-skku.git> -b pa2-2
- Modifications
 - halt system call
 - Halt xv6 program
 - make tarball
 - Compress your source codes into one .tar.gz file for submission
 - You should enter your ID & project no. on Makefile
 - CPUS=1
 - ~~– Ignore to yield CPU on clock tick~~
 - ~~– yield system call~~
 - ~~• Yield CPU~~

Project Submission Procedure

- <http://sys.skku.edu>
 - Submit a tarball file made from “**make tarball**”
- Due date
 - 2017-04-09 23:59
- Since ~~2nd~~6th submission, -5% penalty of the project score
 - Up to 5 submissions are free to accept
- Every one day delay, -25% penalty of the project score
 - You can use up to 5 *slip* days
 - If you use slip day(s), please let TA know by email