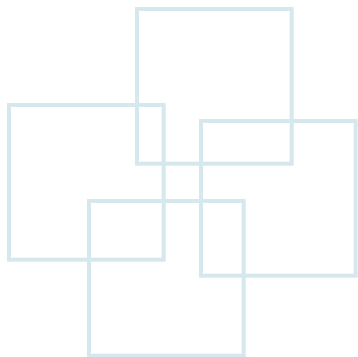
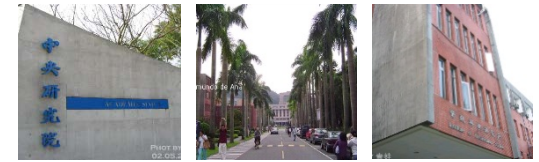


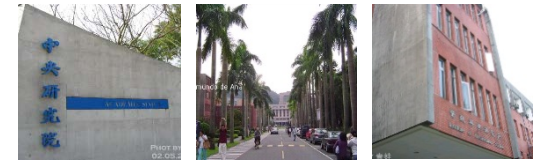
Project 2





Requirement

- Create a kernel module
- In this module, create five kernel threads in the *init* function of the module for two testing cases:
 - 1. Each thread runs in a for loop for 1,000,000,000 iterations.
 - 2. Each thread runs in loop infinitely.
- In every 100,000,000 iterations, each kernel thread will print its name “kthread \underline{x} ” on screen or in a file, where $x=\{1, 2, 3, 4, 5\}$.
- Use `kthread_bind()` to bind all the kernel threads on the same CPU core.
- Compare the results when the kernel threads are all run with the FIFO or Round-Robin scheduling algorithm.
 - FIFO (SCHED_FIFO)
 - RR(SCHED_RR)



Submission

- Each person in one group.
- Write down a brief report within 4 pages to describe how you do and what you do and learn, including:
 - 1. The developing environment, Linux kernel version, and Linux distribution.
 - 2. The main procedure that you build the Linux kernel and use it to boot your system.
 - 3. What you learned and what are the main problems that you encounter.
- The file of your report should be named with **AOS-P2-FullStudentID(YourName)**
- Email you project to TA bearman.sky@gmail.com with the email title: **AOS Project 2, FullStudentID(YourName)**
 - Write emails to ask TA (曹哲維) if you have any question.
- For the delayed submission, deduct two points for each day.
- The deadline is three weeks later (**2013/12/30 24:00**).