SSE3052: Embedded Systems Practice

Jinkyu Jeong
jinkyu@skku.edu
Computer Systems Laboratory
Sungkyunkwan University
http://csl.skku.edu

Exercise - mmap

- Download the mini_calc_mmap.c in iCampus
 - Try compile & run it in your android device without modify
- Modify mini_calc_mmap.c for mini calculator
 - ./a.out [int] => print [int] on segment
 - ./a.out [int] [+|-|x|/] [int] => print result on segment
 - ./a.out [+|-|x|/] [int] => read segment and print result

Exercise - ioctl

- Make your own led_ioctl() and user code for test
 - Command list for your led_ioctl(),
 - LED_ON_[x:0~6]: turn on xth LED
 - LED_ON_ALL: turn on all LEDs
 - LED_OFF_[x:0~6]: turn off xth LED
 - LED_OFF_ALL: turn off all LEDs
 - LED_[x:0~6]_[y:gray, white, red, yellow, green, sky, purple]
 - Change color of xth LED to y
 - LED_ALL_[y:gray, white, red, yellow, green, sky, purple]
 - Change color of ALL LEDs to y
 - Return 0 for success, -1 for failure
 - Do not use 0x2 as command number

Submission

- Format: YourStudentID_lab4.pdf
- Upload it on iCampus
- Due: 3/22 (Mon.) 23:59