CSCE604227 System Programming CSCE604227 Pemrograman Sistem Week 04: Project FUSE 1

C. BinKadal

Sendirian Berhad

https://docOS.vlsm.org/SPSlides/sp00.pdf Always check for the latest revision!

REV025: Wed 24 Jul 2024 19:00

SP241¹): System Progamming

Week	Торіс
Week 00	Overview
Week 01	Linux Kernel and Programming Interface
Week 02	Revisit Linux From Scratch
Week 03	FUSE: Filesystem in Userspace
Week 04	GetOpt
Week 05	Autoconf and Automake
Week 06	Boxing/Unboxing
Week 07	Sync, SETUID, and MMAP
Week 08	Kernel Modules I
Week 09	Kernel Modules II
Week 10	Kernel Modules III

¹⁾ This information will be on **EVERY** page two (2) of this course material.

STARTING POINT — https://sp.vlsm.org/

```
Text Book — The Linux Programming Interface, 2010, No Starch Press, ISBN
978-1-59327-220-3 — https://man7.org/tlpi/.
Resources
  □ SCELE — https://scele.cs.ui.ac.id/course/view.php?id=3742.
    The enrollment key is XXX.
  □ Download Slides and Demos from GitHub.com
    https://github.com/os2xx/doc0S/:
    sp00.pdf (W00), sp01.pdf (W01), sp02.pdf (W02), sp03.pdf (W03),
    sp04.pdf (W04), sp05.pdf (W05), sp06.pdf (W06), sp07.pdf (W07),
    sp08.pdf (W08), sp09.pdf (W09), sp10.pdf (W10).
  □ LFS — http://www.linuxfromscratch.org/lfs/view/stable/
  □ OSP4DISS — https://osp4diss.vlsm.org/
    This is How Me DO IT! — https://doit.vlsm.org/
      ☐ PS: "Me" rhymes better than "I" duh!
```

Agenda

- Start
- Schedule
- 3 Agenda
- 4 Project FUSE 1

Project FUSE 1

- The Linux Programming Interface
 - https://man7.org/tlpi/
- Source Code for The Linux Programming Interface
 - https://man7.org/tlpi/code/
- Ch. 2.5: File I/O Model
 - System Calls: open(), read(), write(), close(), and so on file descriptor.
 - stdio library: fopen(), fclose(), scanf(), printf(), fgets(), fputs()
- Ch. 4: File I/O: The Universal I/O Model
- Ch. 5: File I/O: Further Details
- Always update your kernel
 - https://doit.vlsm.org/007.html