CSGE602055 Operating Systems
CSF2600505 Sistem Operasi
Week 10: I/O Programming & Network Sockets Programming

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`http://rms46.vlsm.org/2/207.html`
Always check for the latest revision!

REV119 20-FEB-2018

Operating Systems 2018-1 (Room 3114 Tue/Thu)
Class: A (10:00-12:00) | B (13:00-15:00) | C (16:00-18:00)

Week	Schedule	Topic	OSC9
Week 00	06 Feb - 12 Feb 2018	Intro & Review1	Ch. 1, 16
Week 01	13 Feb - 19 Feb 2018	Review2 & Scripting	Ch. 1, 2
Week 02	20 Feb - 26 Feb 2018	Protection, Security, Privacy,	Ch. 14, 15
		& C-language	
Week 03	27 Feb - 05 Mar 2018	I/O, BIOS, Loader, & Systemd	Ch. 13
Week 04	06 Mar - 12 Mar 2018	Addressing, Shared Lib, & Pointer	Ch. 8
Week 05	13 Mar - 19 Mar 2018	Virtual Memory	Ch. 9
Reserved	20 Mar - 24 Mar 2018		
Mid-Term	26 Mar - 03 Apr 2018	(UTS)	
Week 06	05 Apr - 11 Apr 2018	Concurrency: Processes & Threads	Ch. 3, 4
Week 07	12 Apr - 18 Apr 2018	Synchronization	Ch. 5, 7
Week 08	19 Apr - 25 Apr 2018	Scheduling	Ch. 6
Week 09	26 Apr - 05 May 2018	File System & Persistent Storage	Ch. 10, 11, 12
Week 10	07 May - 16 May 2018	I/O Programming	
		& Network Sockets Programming	
Reserved	17 May - 22 May 2018		
Final	23 May - 26 May 2018	(UAS)	
Deadline	07 Jun 2018 16:00	Extra assignment **deadline**	

- Operating Systems Check List
  - ☐ Trace this document from `http://rms46.vlsm.org/2/207.html`
  - ☐ Have a decent OS Book and map it to **OSC9**.
  - ☐ Create **public** project "os181" on your `github.com` account.
    - ☐ Write in "`README.md`" file:
      Special for Week 00: "**ZCZC Sistem Operasi 2018 Awal (1)**".
      Add line on Week01: "**ZCZC W01 . . .**".
      On Week02: "**ZCZC W02 . . .**".
      On WeekXX: "**ZCZC WXX . . .**".
  - ☐ Encode your **QRC** with image size of approximately 250x250 pixels:
    "OS181 CLASS ID GITHUB-ACCOUNT SSO-ACCOUNT SIAK-Full-Name"
    Special for Week 00: Mail your **embedded** QRC to: `os181@vlsm.org`
    with Subject: [W00] CLASS ID SIAK-NAME.
  - ☐ Write your Memo (with QRC) **every week**.
  - ☐ Using your **SSO** account, login to `badak.cs.ui.ac.id` via
    `kawung.cs.ui.ac.id`.
    - ☐ Check folder `badak:///extra/Week00/`
    - ☐ Week00: Copy the folder to your home directory:
      `cp -r /extra/Week00/W00-demos/ W00-demos/`
    - ☐ For WeekXX: Copy the folder to your home directory:
      `cp -r /extra/WeekXX/WXX-demos/ WXX-demos/` (XX=01, 02,... 10).
  - ☐ **How to improve this document?**

Agenda

- Reference: (demo-w10)

Body Knowledge

- 18 Knowledge Area (IEEE/ACM 2013)

AL - Algorithms and Complexity	AR - Architecture and Organization
CN - Computational Science	DS - Discrete Structures
GV - Graphics and Visualization	HCI - Human-Computer Interaction
IAS - Information Assurance and Security	IM - Information Management
IS - Intelligent Systems	NC - Networking and Communications
OS - Operating Systems	PBD - Platform-based Development
PD - Parallel and Distributed Computing	PL - Programming Languages
SDF - Software Development Fundamentals	SE - Software Engineering
SF - Systems Fundamentals	SP - Social Issues and Professional Practice

- OS - Operating Systems (IEEE/ACM 2013)
  - OS/Overview of Operating Systems (T1:2)
  - OS/Operating System Principles (T1:2)
  - OS/Concurrency (T2:3)
  - OS/Scheduling and Dispatch (T2:3)
  - OS/Memory Management (T2:3)
  - OS/Security and Protection (T2:2)
  - OS(Electives): Virtual Machines, Device Management, File Systems, Real Time and Embedded Systems, Fault Tolerance, System Performance Evaluation.

Issues

- General View (IEEE/ACM 2013)
- The Amnesia and Tabula Rasa Problem
- MEMOS: QRC
- EXAM: Open/Close/Memo
- LABS?
- The "Monkey Book"
- Weeks 0-9
- Week10?
- Week11 Extra

The End

- ☐ This is the end of the presentation.
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