CSGE602055 Operating Systems CSF2600505 Sistem Operasi

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The Lecturer

- UILA: since 1984.
- GNU/Linux user: since 1994.
- VauLSMorg (vlsm.org): since 1996.
- Blog: rahmatm.samik-ibrahim.vlsm.org/
 - Blog: 2016/08/panggil-saya-rahmat.html
 - Blog: 2013/10/kumpulan-hal.html
- Twitter: @rms46
- Facebook Page: facebook.com/RMS46F/
- Contact: via SCELE Operating Systems REG/MTX/INT/EXT https://scele.cs.ui.ac.id/course/view.php?id=124

Terms of Conditions

- My name is Rahmat. There shall no other name then Rahmat!
- Thou shall not be late for the lecture!
- Thou shall not swear and not be noisy in the classroom!
- Remember the Operating System time slot. Prepare for a quiz!
- Honour thy lecturer's privacy. No Puss in Boots, please!
- Thou shall not play games in the classroom!
- Thou shall not net chatting in the classroom!
- Thou shall not borrow from your neighbour during a quiz or examination!
- Thou shall not wrongly answer the quiz or examination!
- Thou shall not covet your neighbour's quiz or examination sheet!

Honour thy lecturer's privacy.



Figure : No Puss in Boot, please!1.

¹This is a fair use of a DreamWorks/Paramount Picture character.

Goal

Coverage

This is an introduction to a modern operating systems course. It will cover general overview, computer architecture review, operating system overview, software licenses, GNU/Linux CLI, versioning, scripting, C language overview, protection, security, gnupg, processes and threads, addressing and pointers, memory management, virtual memory, synchronization, mutual exclusion, deadlock, CPU scheduling algorithms, file systems.

Student-Centered

This course is student-centered where responsibility is in the hands of the students. Students are expected to be prepared for the class meeting.

GNU/Linux

Students will have a thorough understanding of how ${\sf GNU/Linux}$ provides services by using a Command Line Interface.

ETC

- SCELE: https://scele.cs.ui.ac.id/course/view.php?id=124
 - Enrollment key: "01101010"1.
 - Check the "Announcement" regularly.
 - Topic of the week will be in the weeks section.
- ARCHIVE:

https://scele.cs.ui.ac.id/course/view.php?id=126

- Enrollment key: "11001100"1.
- Check it out!
- There will be No Lab. Assistant.
- There will be No Teaching Assistant.
- There will be Grader only.
- Go to SEKRE (B Building 2nd floor) for any administrative issues!

¹For a limited time only!

Resources

- Any recent Operating System text book published say less than 10 years ago.
- OLD (ARSIP)(017_BAHAN-AJAR-LAMA) Previous Slides.
- OSC2E (ARSIP)(050_OSC-Silberschatz) OSC2E
- UCB (ARSIP)(070_KULIAH-INTERNASIONAL) UC Berkeley
- UDA (ARSIP)(070_KULIAH-INTERNASIONAL) UDACITY
- ETC (ARSIP)(075_ETC-Video) ETC

Schedule

- Week00 Intro (OSCE2e ch1/2)(UCB 01)(UDA P1L1/2) (OLD 00)
- Week01 IPR, CLI, GIT, Scripting (ETC 000 001 002) (OLD 02-HKI 02-scripting) + Any Shell Scripting Git AWK SED REGEX Tutorial.
- Week03 Processes & Threads (OSCE2e ch3/4) (UCB 02 03) (UDA P2L1/2/3)
- Week04 Addressing & Pointer (Any C Language Tutorial)
- Week05 Memory (OSCE2e ch7/8) (UCB 11 12 13) (UDA P3L2)
- UTS 00 01 02 03 04 05
- Week06 Synchronization (OSCE2e ch5) (UCB 7/8) (UDA P3L3/4)
- ullet Week07 Schedulling (OSCE2e ch6) (UCB 9/10) (UDA P3L1)
- Week08 File System (OSCE2e ch10/11) (UCB 18/19) (UDA P4L2)
- Week09 Storage System (OSCE2e ch9) (UCB 17A (UDA P4L4))
- Week10 Cloud System & Virtualization (UCB 24)
- UAS 06 07 08 09 10
 Rahmat M. Samik-Ibrahim (UILA)

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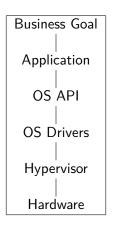
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Assesment

- Midterm: 6 problem sets @ 6 points (=36).
- Final: 5 problem sets @ 6 points (=30).
- Pre-midterm assignments: 6 sets @ 3 points (=18).
- Post-midterm assignments: 5 sets @ 3 points (=15).
- Extra: 1 point¹.
- C-2C: upto 5 points¹.
- Midterm remedy/replacement: upto 3 points¹.
- Final remedy/replacement: upto 3 points¹.
- You are allowed to bring a cheat-sheet (A4 size) to the exam room¹.

¹Terms and conditions apply

General View



- Account: Google, Github, SSO
- Scele
- Report/Wait
- Cek Home

Arithmetic

- Base 2: 110010101010₂
- Base 8: $01234567_8 = 000\ 001\ 010\ 011\ 100\ 101\ 110\ 111_2$
- Base 10: 012 345 679
- Base 16: $9AB \ CDEF_{16} = 1001 \ 1010 \ 1011 \ 1100 \ 1101 \ 1110 \ 1111_2$

The End

• This is the end of the presentation.