

Introduction

This first lecture introduces the course (*Course information*) and gets you started on the first 1 topic namely OSs (*Intro to OSs*). What to read and relevant questions for each part can be found in the following sections.

Content and reflection

SW3ISU Introduction

Themes

- Course information[sw3isupres][sw3isuguide]
Overview, material and expectations
- Studying[3]
Reading and understanding large texts

Questions

- What is required in terms of exercises - labs and reviews
- When writing a review, which elements have to be present and to what extend
- Where do I get a *Raspberry Pi Zero Wifi* and where do I get information about it
- Where do I find the material for this course
- How do I study efficiently (not covered in the lecture per se - but considered a must!)

Intro to OSs

Themes

- OS[2, chap. 1-4.4][1]
Covers
 - What is an OS
 - Kernel (and types)
 - Processes
 - Memory
 - I/O
 - Real-Time OS

Note: [2] - is a relative short text on the subject. Which is why it has been chosen!

Questions

- Grasp the different major concepts that make up an OS
- Which different OS categories do you believe exists
- What is a process and from where does it come from

- What is *protection* or *sandbox* in relation to a process
- What happens in Userspace and/or in Kernelpspace
- Can a process have multiple threads?

Linux Terminal Introduction

Themes

- Getting to know the Linux Terminal[4][5]
Video material

Questions

- Whats do you think a terminal is for
- Which commands were shown in the videos
- What's a folder
- How do you create and delete a folder
- How do you create and delete a file
- How do you edit file

Material

Slides

- [1] S. Hansen, *Intro to oss*, Slides - see course repos.

Local repository

- [2] R. B. Muhammed, *Introduction to operating systems*, TFJ composed a pdf based on the text from: <http://www.personal.kent.edu/%7ermuhamma/OpSystems/os.html>.

Online

- [3] Studiemetro. (2013). "Aktiv akademisk læsning." Danish, [Online]. Available: <https://www.youtube.com/watch?v=WTu2-HSw50w>.
- [4] D. Rumbaugh. (Aug. 2012). "Linux terminal tutorial episode 1," [Online]. Available: <https://www.youtube.com/watch?v=2FiQSLdnBqA>.
- [5] —, (Aug. 2012). "Linux terminal tutorial episode 2," [Online]. Available: https://www.youtube.com/watch?v=_JWj6u8mI7k.