Implementation of Operating Systems

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Procedure

- We will have weekly meetings on Thursday 12-14 (likely until week 9).
- We will write a small but working OS (mostly) from scratch.
- We discuss the concepts and then write the code.
- There will be homework assignments, often consisting of finishing the code. No hand-ins. We will discuss them in the following session.
- Attendance is mandatory.

Homework

Homework assignments are not mandatory, but I strongly suggest to do them!
AI Usage:

- you *can* use AI as a helper to understand concepts, but don't rely on it
- do the homework assignments yourself
  $\rightarrow$ if you use AI to generate code, make sure that you fully understand it

Registration

Register with me via email! Please send an email (to mari.mueller@uni-tuebingen.de) with the following information

- student ID (Matrikelnummer)
- name
- degree program (Studienfach) + desired degree (Abschluss)
- semester of study (Fachsemester)
- student email address
- GitHub handle

Practical Details

- Practical Course, 6 ECTS
- Grading components: depending on the number of participants
  - project
  - EITHER presentation of project & discussion afterwards
  - OR exam

Project

In the second half of the semester, every participant will do a project.
Each project consists of adding a feature to the OS or to improve one of its aspects.
At the end of the semester, you hand in the project and present your code.
The project should

- have a short documentation explaining design decisions, limitations, and where you have changed/added what and why
- exhibit well-structured and understandable code
- be reasonably tested
- be sent to mari.mueller@uni-tuebingen.de
  (git bundle or tar/zip archive or commit hash in private repo with read access)

In the presentation you should

- explain the basic concpets and your code in an understandable way
- demo that your code works
- be able to answer questions about your code

Project

AI Usage:

- you *can* use AI to understand the task of the project better, but write the code yourself
- you *can* use AI to help with the writing of the documentation, but write the contents yourself

The deadline for handing in, the date for the presentations, and the exact modalities of the presentations, will be announced later.