

High performance parallel systems

Lecture 1 - Introduction

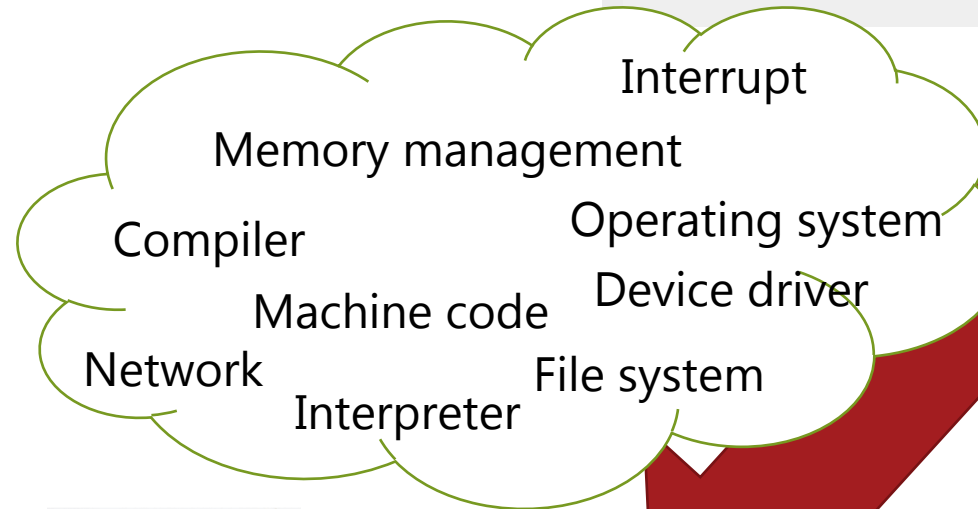
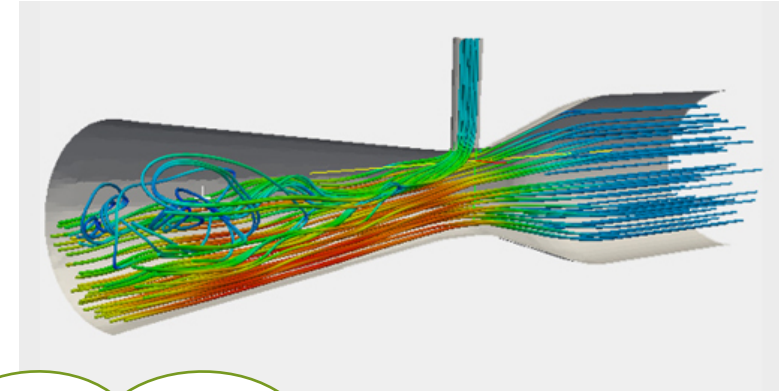
Kenneth Skovhede & Troels Henriksen

UNIVERSITY OF COPENHAGEN



Image from: <https://www.simscale.com/product/cfd/>

Brief course introduction



People teaching the course

Lecturers

- Kenneth Skovhede, NBI
- Troels Henriksen, DIKU

Teaching Assistants

- Georgios Garidis
- Laurent Lindpointner
- Albert Alonso de la Fuente
- Tor Skovsgaard

Flipped classroom

We use pre-recorded videos instead of lectures

- We use the allocated timeslots for lab sessions
- The labs will be used to try practical things with assistance
- We will discuss solutions and problems

Teaching materials

Course outline

- Overview of all activities

Course website

- <https://github.com/diku-dk/hpps-e2020-pub>

Books

- Computer Systems – A Programmers Perspective (3rd intl. edition)
- Modern C (2nd edition, 2. rev)

In stock from Nov. 19th

Free PDF

Other materials (look at website)

- Lecture notes
- Exercises
- General stuff

Absalon

- Used for assignment uploads

Communication

Absalon discussion forum

Discord

<https://github.com/diku-dk/hpps-e2020-pub#discord>

Types of activities

Reading

- You can choose to read before or after watching the videos
- Provides in-depth information about the topic

Videos

- Should be watched before attending the labs
- Provides high-level explanations and elaboration of focus topics

Labs

- Practical hand-on experience with the material from reading and video
- Feel free to use this to ask questions!
- Helps with assignments and exam

Exercises

- Theoretical exercises (da: regneopgaver)
- Experience with exam-like questions

When, what, where?

Labs

- Tuesday – online only
- Thursday – Lille UP1 + online



Zoom link: <https://ucph-ku.zoom.us/j/63242906073>

Exercises

- Thursday
 - Group 1 – DatØK: **1-0-14**
 - Group 2 – DatØK: **1-0-34**
 - Group 3 – ML: **A111**
 - Group 4 – ML: **1-0-30**

Study group

- Fridays

For today only: second hour is a lab-session!

Assignments

- **4 assignments**
 - appx 1.5 week pr. Assignment
 - Hand-in via Absalon
- **Graded 0-4 points**
 - No re-submissions
- **Need 8 points to qualify for exam**

Exam

Exam is a 4-hour written exam

- All aids allowed (no internet...)
- Focus on theoretical questions
- Tests skills from assignments and exercises

Lab session for today

For the following lab sessions, look at the website

<https://github.com/diku-dk/hpps-e2020-pub>

Today, we will focus on getting things set up, testing the compiler etc.