Material Exercises

Programming Parallel Computers

Intro Chapter 1 Chapter 2 Chapter 3 Chapter 4 Lectures Links About Index

Lectures

Week 1 Week 2 Week 3 Week 4 Week 5 Week 6

Week 3

The lecture videos are available both on YouTube and on Panopto, in up to 4K resolution, with English subtitles. The slides are also available in the PDF format.

Lectures

YouTube playlist with all parts of the lecture.

Part 3A: All three forms of parallelism in action (10 min)

- Lecture on YouTube
- Lecture on Panopto
- Slides

Part 3B: Reusing data in registers (15 min)

- Lecture on YouTube
- Lecture on Panopto
- Slides

Part 3C: Reusing data in cache (11 min)

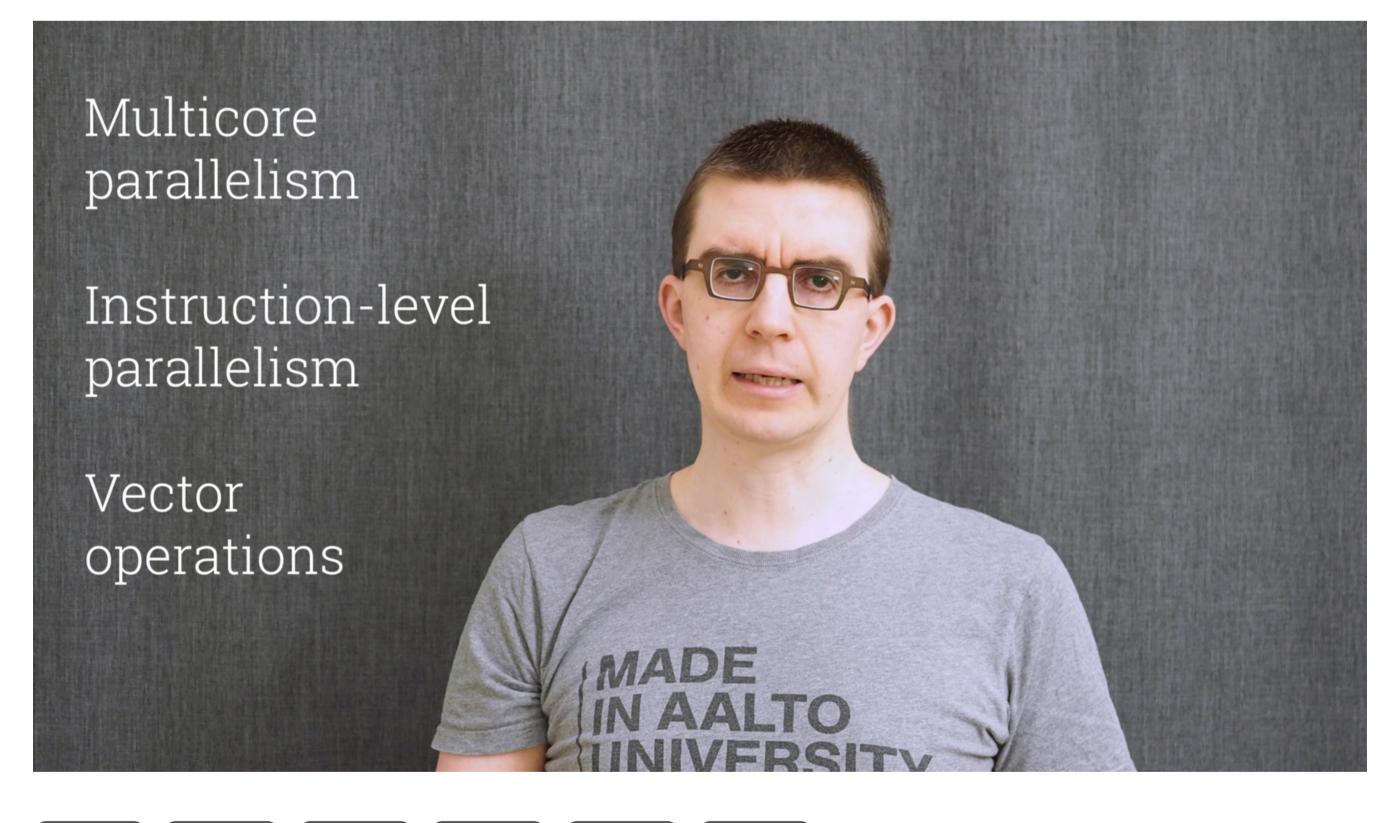
- Lecture on YouTube
- Lecture on Panopto
- Slides

Topics covered

- Chapter 2, V4: reuse data in registers
- Chapter 2, V5: more register reuse
- Chapter 2, V7: better use of cache memory

Additional material

- Two animations on memory access patterns: basics · advanced
- Chapter 2, V6: prefetching [advanced]



Week 1 Week 2 Week 3 Week 4 Week 5 Week 6