

# Programming Parallel Computers

## Lectures

### Week 2

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 2A: Multicore parallelism · OpenMP (13 min)

- [Lecture on YouTube](#)
- [Lecture on Panopto](#)
- [Slides](#)

Part 2B: Vector operations (10 min)

- [Lecture on YouTube](#)
- [Lecture on Panopto](#)
- [Slides](#)

Part 2C: How to benefit from vector operations? (10 min)

- [Lecture on YouTube](#)
- [Lecture on Panopto](#)
- [Slides](#)

### Topics covered

- [Chapter 2, OpenMP: multicore parallelism](#)
- [Chapter 2, V3: vector instructions](#)

### Additional recommended reading

- [Chapter 3: Multithreading with OpenMP](#)

