

# Programming OpenMP

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# Agenda (in total 4 parts)

## ■ Part 0: Introduction to Parallel Programming

### ■ Part 1: OpenMP Introduction

### ■ Part 2: Tasking

### ■ Part 3: Optimization for NUMA and SIMD

### ■ Part 4: Introduction to Offloading with OpenMP



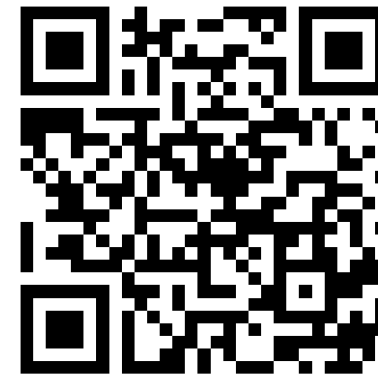
<https://t1p.de/2024-ppces-openmp>

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## ■ Part 0: Introduction to Parallel Programming

## ■ Part 1: OpenMP Introduction

- Welcome
- OpenMP Overview
- Parallel Region
- Worksharing
- Scoping
- Executing OpenMP programs
- Overview: Exercises



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## ■ Part 2: Tasking

## ■ Part 3: Optimization for NUMA and SIMD

## ■ Part 4: Introduction to Offloading with OpenMP