Thematic CERN School of Computing on Scientific Software for Heterogeneous Architectures

Contribution ID: 55 Type: Lecture

Practical vectorization

Thursday 9 October 2025 11:30 (1 hour)

Parallel and Optimised Scientific Software - lecture 4 $\,$

- Measuring vectorization level
- What to expect from vectorization
- Preparing code for vectorization
- Vectorizing techniques in C++: intrinsics, libraries, autovectorization

Summary

Presenter: PONCE, Sebastien (CERN)