Semesterarbeit/Masterarbeit
Explicit Vectorization of a scientific computing C++ Library

Objects of Interest:
Vectorization the computing intensive functions in the scientific computing library SPHinXsys using Single Instruction/Multiple Data (SIMD) technique.

Main Question: How can we accelerate a scalar code using SIMD? Is the explicit vectorization library Xsimd and operator overloading good for it?

What subjects you should have passed: C++ programming, parallel computing, vectorization.

Where is the fun? On hands work, enjoying the feeling of ultimate acceleration!

Begin: ASAP
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