

Lecture 21: OpenMP SIMD

CMSE 822: Parallel Computing
Prof. Sean M. Couch



Today's Plan

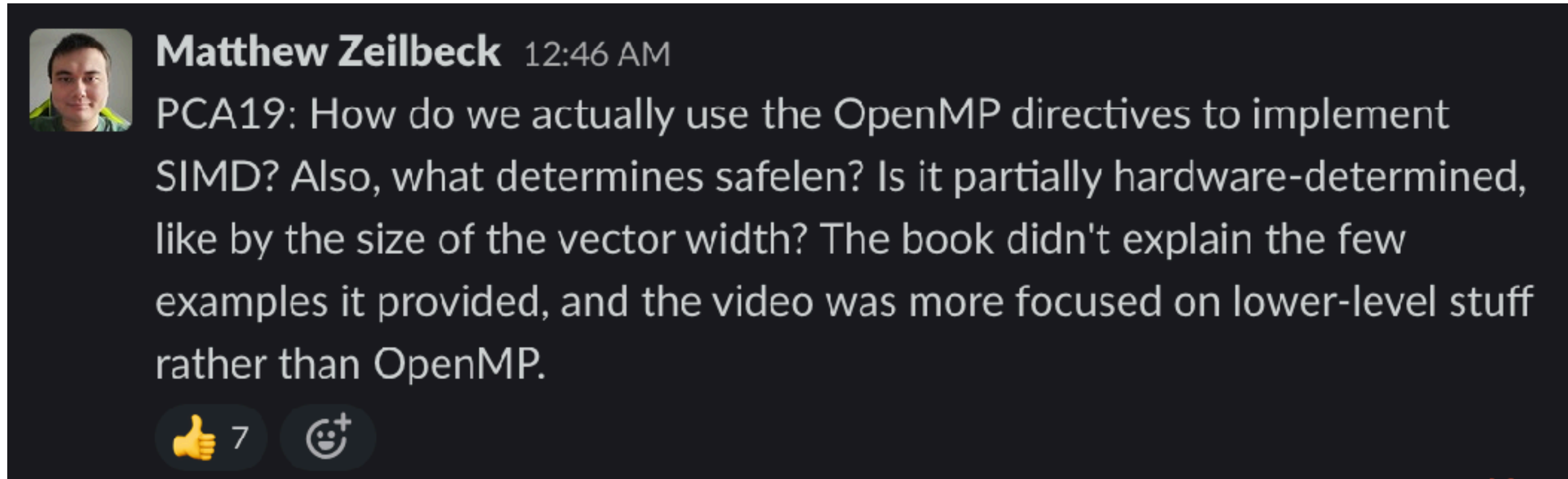
- If you haven't already, **join the Slack group for your chosen project type.**
- In-class work on OpenMP SIMD.

Puppy time!





PCA Questions



The `safelen` clause specifies that no two concurrent iterations within a SIMD chunk can have a distance in the logical iteration space that is greater than or equal to the value given in the clause. The parameter of the `safelen` clause must be a constant positive integer expression. The `simdlen` clause specifies the preferred number of iterations to be executed concurrently unless an `if` clause is present and evaluates to *false*, in which case the preferred number of iterations to be executed concurrently is one. The parameter of the `simdlen` clause must be a constant positive integer expression.



PCA Questions



Daniel Jacob Griffin 10:17 AM

PCA19: In the book it says, "If your SIMD loop includes a function call, you can declare that the function can be turned into vector instructions with declare simd." Can you explain this a little more?