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Parallel Performance Analysis and Score-P Basics

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To effectively harness the computing capabilities of today's and future supercomputing systems, performance analysis and optimization should be a regular activity during scientific software development. Instead of using do-it-yourself solutions usually based on coarse-grained timers (e.g., time per timestep or solver iteration), developers of scientific code bases can resort to a variety of specialized tools that have been specifically developed to assist them with this task. In this part of the workshop, we will introduce the open-source tools Score-P and Cube, and explore their usage and capabilities with a number of hands-on exercises.

Presenter: GEIMER, Markus