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Observations on optimizing scientific computing applications, or What to do if there is no bigger hammer ?

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Tuesday May 14, 16:00, Room MXC 315

Abstract: Computational tools are becoming increasingly common in many areas of research and at the same time researchers are working on increasingly complex problems, which require using high-performance computing resources and optimized and parallelized applications.

However, making an application for a given problem run faster may not always be straightforward. This talk will discuss some example cases that highlight the different possible approaches ranging from post-compilation optimizations to performing a complete rewrite from scratch.