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Title: Tool Support for Multi-core Software Development

Abstract: Multi-core processors are everywhere, and software must make use of multiple cores to fully leverage the performance of modern hardware. Unfortunately, multi-core software development remains challenging and error-prone. In this talk, I will present some of the challenges in developing multi-core software and then discuss my group's work in building tools to help software developers write correct multicore code. I will then briefly describe the range of ongoing projects in my group.