**RESEARCH ON**

**THREADMENTOR: MULTI-THREAD PROCESSING**

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Thread Mentor is a multiplatform pedagogical tool designed to ease the difficulty in teaching and learning multithreaded programming. It consists of a C++ class library and a visualization system. The class library supports many thread management functions and synchronization primitives in an object-oriented way, and the visualization system is activated automatically by a user program and shows the inner working of every thread and every synchronization primitive on-the-fly. Events can also be saved for playback. In this way, students will be able to visualize the dynamic behavior of a threaded program and the interaction among threads and synchronization primitives.