

Project Title Visualization of multithreading software based on slow intelligent system

Project Description In a multithreading software, multiple threads need to concurrently execute and share the CPU resource (assuming the number of threads is larger than the number of cores). Therefore, there must be a scheduling algorithm that schedules the allocation of CPU resource to each thread. This scheduling is invisible to either programmers or end users. For this project, I propose to apply some software visualization algorithms to dynamically display the concurrent execution of multiple threads. I also propose to use the SIS testbed to enumerate the algorithms for the user as well as record the user's choice for further use.

Deliverables

- By MS2, I will choose two software visualization algorithms and implement them.
- By demo, I will complete the whole system described above.
- Plan B: I will implement one visualization algorithm to show the concurrent execution of multiple threads.