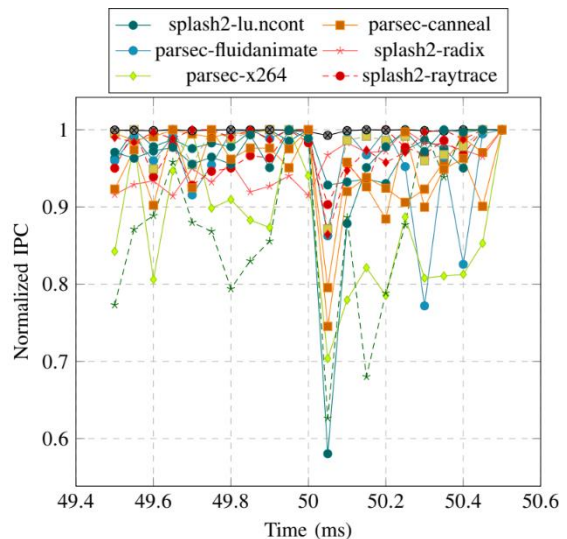


## Bachelor/Master's Thesis Implementation of Scheduling Algorithms in the HotSniper Simulator

HotSniper is a toolchain for interval thermal simulations of 2D multi-/many-cores in an open system. Using Sniper as a base subsystem, HotSniper allows the simulation and evaluation of different benchmark **multithreaded applications**. In previous works, HotSniper has been used as the main evaluation tool for several **resource management techniques** such as task migration, application mapping and Dynamic Voltage and Frequency Scaling (DVFS) for different system configurations and environments. In this thesis topic, we will evaluate a set of **scheduling algorithms** to analyze their impact on the performance, power, and thermal response of the system.

### Main tasks for this thesis

- Implement a set of scheduling algorithms inside of the default simulator scheduler
- Characterize the execution of different benchmark applications under each scheduling algorithm and system configuration.



### Skills required for the thesis

- Programming skills (C++, Python)
- Knowledge on resource management is beneficial but not required

### Skills acquired within the thesis

- Apply your programming experience to state-of-the-art research
- Work in a research environment.

### Contact

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