Simulation Environment for Thermal-aware Real Time Scheduling

This project is the result of a joint effort involving the GaZ group at the University of Zaragoza, Spain and the CINVESTAV - IPN Unidad Guadalajara, Mexico. The peer website of this page at the CINVESTAV can be reached at this link

TCPN-ThermalSim

TCPN-ThermalSim is a simulation environment for designing and testing Real Time multiprocessor schedulers subject to thermal constraints. It consists of four modules. The first module allows defining the system (processors, tasks) and their parameters. The second module automatically builds a TCPN model, generating the state and thermal equations. The third module is for selecting, modifying or adding and parameterizing the scheduling algorithm. The fourth module allows the user to perform simulations and collect, process and plot results. The parameters of the tasks can be defined either manually or automatically (by means of the integrated UUnifast algorithm).


Papers related to TCPN-ThermalSim: