

عنوان مقاله:

An Energy-Aware Methodology for Mapping and Scheduling of Concurrent Applications in MPSoC Architectures

محل انتشار:

نوزدهمین کنفرانس مهندسی برق ایران (سال: 1390)

تعداد صفحات اصل مقاله: 6

نویسندگان:

Ramin Rajaei - *Department of Electrical Engineering, Sharif University of Technology*

Shaahin Hessabi - *Department of Computer Engineering, Sharif University of Technology*

Bijan Vosoughi Vahdat - *Department of Electrical Engineering, Sharif University of Technology*

خلاصه مقاله:

Mapping and Scheduling are two central and critical steps in design flow of the Networks on Chips (NoCs). They deal with implementation of the applications on NoCs. In this paper a novel energy aware algorithm, called EAMS, for mapping and scheduling of concurrent applications to NoC platforms is developed. It is considered that, the NoC architecture consists of a set of heterogeneous IP cores. The introduced algorithm finds a mapping of the tasks of the application to available IP cores so that the overall energy consumption, meeting task deadlines, is minimized.

کلمات کلیدی:

Mapping, Scheduling, Network on Chip, Multi-Processor System on Chip

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