Abstract

This paper describes a general transformation theory in transforming a sequential C application to Kahn Process Network. It briefly describes in detail the two major transformation steps namely task partitioning and channel generation. We also discuss the previous approaches which automate the transformation from sequential model to parallel model and compare these with our approach.

References

- In IEEE international SOC conference (Sept 9-11 2009).

**Index Terms**

Computer Science  
Signal Processing

**Keywords**

Kahn Process Network  
Matlab  
Partition Analysis  
Channel Placement Analysis
Optimizations

loop parallelization

loop outlining

Unparsing