

1 Abstract

2 Introduction and problem description

This section should motivate the problem that we are facing or will face with advancement of computing technology.

3 Background

This should give the theoretical background of the whole process. For example, describe the application graphs formally. Introduce the mathematical notation behind the cost functions and the graph theory. Introduce what we mean by throughput (formally).

4 Modeling heterogeneity of the application graphs

Describe the kind of heterogeneity that exists in the application graph. Nodes requiring vector instructions. Nodes that are stores. How the communication is modeled, etc.

5 Modeling heterogeneity of the execution platform

This is the main part of the paper: Describe how the platform is modeled. Why a dendrogram? What is the intuition behind partitioning in steps rather than partitioning in say one go? Need to describe the discussions we had on board before (why go bottom up for platform graph, but go top-down for application graph).

6 Experimental results

We divide this into multiple sub-sections: (1) Give a brief background of the experimental setup. This should include the description of cross entropy. (2) The other sections should be partitioned into different parts within the table.

7 Conclusions and future work

We have none