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. We need to motivate the solution of using CE and SA. Why both? Mention that the problem is even for homogeneous case NP-hard.

In this paper we might be able to even do tiling and finer grained allocation using split par actors. We might be able to mention something about the poluhedral model and how we are better than them. I can produce graphs with separate par actors and see how they perform with CE.

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).

We need to give the background about CE and SA (all the math or no math behind it).

4 Modeling heterogeneity of the application graphs and the execution platforms

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. How we do it in the CE and SA methods. Look at other people and refer them (describe how we differ compared to them). Maybe the comparison should be put in a different section altogether.

This is the main part of the paper: Describe how the platform is modeled. Here as well.

5 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. We also need synthetic graphs.

6 Related work

7 Conclusions and future work

We have none