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BDD Variable Ordering Techniques

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Abstract

With Reduced Ordered Binary Decision Diagrams (BDD), many boolean functions can be represented in a very efficient way, not only by considering the space and time to generate it but also to apply some further manipulation on them. In most of the cases, the effectiveness of this representation havily depends on the order of the boolean variables. To avoid exponential growth of the BDD, we can choose an optimal ordering however, it is an NP-hard problem to specify one.

In this paper we make an attempt to summarize the already available oredering and reordering techniques and we also show some application area.

Keywords: binary decision diagram, variable ordering

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