UNIVERSITÉ LIBRE DE BRUXELLES

DÉPARTMENT D'INFORMATIQUE



INFO-?-??? PREP. WORK FOR MASTER THESIS

Thesis - draft #1

Author: Hakim BOULAHYA

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1 Introduction

2 Motivation and objective

For the moment, the implementation to represent the data strutures in Acacia+ is specifically designed for a specific set. The idea is to propose a new library implementation to provide an API that will implement important data structures that are used in syntesis algorithms.

The objective of the thesis is to provide an efficient library to represent antichain data structures and implement different operation. An final goal is to be able to use this library within Aaron/Acacia.

2.1 Related Work

2.1.1 Acacia+

2.1.2 AaPAL

3 Notions

3.1 Model checking and synthesis

Model checking is the process to verify a software model with specifications. Synthesis is the process to derive the system from specifications.

3.2 Data structures

Binary Decision Diagram

Antichain BDD vs antichain Antichain vs pseudo-antichain

4 Questions

* Maastricht library? * How to references?

References