Global constraints for nogood propagation

Project Description

In this project we intend to develop a technique to compactly represent the set of nogoods learned during search. We propose to study representations such as automata and binary decision diagrams for this purpose. Based on such compact representation, we propose to develop efficient algorithms to propagate the consequences of the nogoods represented in the representations in order to improve the efficiency of search. The resultant combination of compact representation of nogoods and efficient propagation algorithms will provide us with a new class of global constraint that can be used in a generic constraint satisfaction context.

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