

Symbolic Model checking*Lecturer: Dr. Sharon Shoham**Names: Omri Lifshitz, Idan Berkovits***1 Abstract****2 Introduction****3 CTL and LTL Model Checking****4 Symbolic Model Checking - BDDs****5 Algorithm****5.1 Finding Maximal SCC**

As taught in class, in order to assert that there is a fair path in the product structure, we need to find a strongly connected component (SCC) that is reachable from the initial state and that intersects with each one of the fairness constraints.

In this section we will present the algorithm use to find the SCCs in a given model using BDDs. Our algorithm is based the algorithm explained in [1].

6 Implementation**7 Experiments and Results****8 Further Work**

References

- [1] Aiguo. Xie and P. A. Beerel. Implicit enumeration of strongly connected components. pages 37–40, Nov 1999.