

**Klaus Jansen**

***Exploiting the structure of conflict graphs in high level synthesis***

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**Abstract:** In this paper we analyze the computational complexity of a processor optimization problem. Given operations with interval times in a branching flow graph, the problem is to find an assignment of the operations to a minimum number of processors. We analyze the complexity of this assignment problem for flow graphs with a constant number of program traces and a constant number of processors.

**Keywords:** independent set, chromatic number, high level synthesis

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