Concept Chapter3 Chapter 3. Concept

From a high point of view, this work tries to weaken the harsh requirements on SCoPs in order to make Pollys loop analyses and optimizations applicable on a wider range of programs. We expect benefit not only from the polyhedral optimizations, but also through speculative parallelization. The polyhedral analyses are used twice since they reveal loop nests which may be optimized as well as speculatively parallelizeable loops. Apart from the implementation work, which will be described in the next chapter, immense effort has been made on the concepts and key ideas behind. We believe that these ideas and the knowledge gained during the work is very valuable not only for future work on SPolly or one of its bases but also for other approaches facing similar situations.

SPolly In A Nutshell

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