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The program context is a symbolic representation of variable values or behaviors arising at run-time of the program. Therfore, symbolic analysis can be seen as a compiler that translates a program into a different language. As a target language we employ symbolic expressions and symbolic recurrences.

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de ne the task of the compiler. It is useful to examine the mac hine co de pro duced b y existing compilers while studying this material. The remainder of Chapter 1 and all of Chapter 4 giv e an o v erview of the organization of a compiler and the prop erties of its ma jor data structures, while Chapter 14 sho ws ho w three pro duction ...

COMPILER CONSTR UCTION
The most powerful method known is the symbolic differencing method as demonstrated by the Parafrase-2 compiler on parallelizing the Perfect Benchmarks (R). However, symbolic differencing is inherently unsafe and a compiler that uses this method may produce incorrectly transformed programs without issuing a warning.

Efficient Symbolic Analysis for Optimizing Compilers ...
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