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that coefficients of
program expressions,
such as array
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techniques assume
that coefficients of
program expressions,
such as array
subscripts and loop

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constants. Advanced
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these techniques
amenable to real
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a symbolic
representation of
variable values or
behaviors arising at
run-time of the
program. Therefore,
symbolic analysis can
be seen as a compiler

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program into a
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a target language we
employ symbolic
expressions and
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incorporated advanced
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techniques in order to
effectively detect
privatizable arrays, to
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trip loop for induction
variable substitution,
and to solve data
dependence problems
that involve symbolic
loop bounds and

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define the task of the
compiler. It is useful to
examine the machine
code produced by
existing compilers
while studying this

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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
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The most powerful
method known is the
symbolic differencing
method as

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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.

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In computing, an optimizing compiler is a compiler that tries to minimize or maximize some attributes of an executable computer program. Common requirements are to minimize a program's execution time, memory requirement, and power consumption (the last two being popular for portable computers).. Compiler optimization is generally

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