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presented because
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programming can be
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Parallel Programming (ISBN 978-0-124-15993-8) by Michael McCool, Arch D. Robison, and James Reinders, is now available from Morgan Kaufmann. This book fills a need for learning and teaching parallel programming, using an approach based on structured patterns which should make the subject accessible to

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viewed as a structured
approach to computer
programming

intermediate between

the levels of a

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and a concrete

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“cookbook” that will guide the programmers systematically to achieve peak parallel performance. –

(decomposition, algorithm, program structure, programming environment, optimizations) •

Provide common vocabulary to the programming community. • Software

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and advocates a
structured approach to
parallel programming.
This approach is based
on a core set of common
and composable
patterns of parallel
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management with an emphasis on determinism and scalability. By using these patterns and also paying attention to a small number of factors in algorithm design ...

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Programming with
Deterministic Patterns
The use of patterns in
parallel programming

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bears a strong
resemblance to the use
of structured control
flow in serial
programming. Both for
reasons of analogy and
because serial
computation is an
important sub-
component of parallel
computation, some
basic patterns for
supporting serial
computation will be

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presented and discussed, along with some serial programming models based on universal subsets of these patterns.

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