<<Languages and Compil>>

图书基本信息

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内容概要

Book DescriptionThis book constitutes the thoroughly refereed post-proceedings of the 15th International Workshop on Languages and Compilers for Parallel Processing, LCPC 2002, held in College Park, MD, USA in July 2002. The 26 revised full papers presented were carefully selected during two rounds of reviewing and improvement from 32 submissions. All current issues in parallel processing are addressed, in particular memory-constrained computation, compiler optimization, performance studies, high-level languages, programming language consistency models, dynamic parallelization, parallelization of data mining algorithms, parallelizing compilers, garbage collection algorithms, and evaluation of iterative compilation.

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书籍目录

Memory-Constrained Communication Minimization for a Class of Array Computations **Forward** Communication Only Placements and Their Use for Parallel Program Construction Hierarchical Parallelism Control for Multigrain Parallel Processing Compiler Analysis and Supports for Leakage Power Reduction on Microprocessor Automatic Detection of Saturation and Clipping Idioms Compiler Optimizations with DSP-Specific Semantic Descriptions Combining Performance Aspects of Irregular Gauss-Seidel Via Sparse Tiling A Hybrid Strategy Based on Data Distribution and Migration for Optimizing Memory Locality Compiler Optimizations Using Data Compression to Decrease Address Reference Entropy Towards Compiler Optimization of Codes Based on Arrays of Pointers An Empirical Study on the Granularity of Pointer Analysis in C Programs Automatic Implementation of Programming Language Consistency Models Parallel Reductions: An Application of Adaptive Algorithm Selection Adaptively Increasing Performance and Scalability of Automatically Parallelized Programs Selector: A Language Construct for Developing Dynamic Applications Optimizing the Java Piped I/O Stream Library for Performance A Comparative Study of Stampede Garbage Collection Algorithms Compiler and Runtime Support for Shared Memory Parallelization of Data Mining Algorithms Performance Analysis of Symbolic Analysis Techniques for Parallelizing Compilers Efficient Manipulation of Disequalities During Dependence Analysis Removing Impediments to Loop Fusion Through Code Transformations Near-Optimal Padding for Removing Conflict Misses......Author Index

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