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Nota di contenuto	Experiences in Using Cetus for Source-to-Source Transformations -- The LLVM Compiler Framework and Infrastructure Tutorial -- An Overview of the Open Research Compiler -- Trimaran: An Infrastructure for Research in Instruction-Level Parallelism -- Phase-Based Miss Rate Prediction Across Program Inputs -- Speculative Subword Register Allocation in Embedded Processors -- Empirical Performance-Model

Driven Data Layout Optimization -- Implementation of Parallel Numerical Algorithms Using Hierarchically Tiled Arrays -- A Geometric Approach for Partitioning N-Dimensional Non-rectangular Iteration Spaces -- JuliusC: A Practical Approach for the Analysis of Divide-and-Conquer Algorithms -- Exploiting Parallelism in Memory Operations for Code Optimization -- An ILP-Based Approach to Locality Optimization -- A Code Isolator: Isolating Code Fragments from Large Programs -- The Use of Traces for Inlining in Java Programs -- A Practical MHP Information Analysis for Concurrent Java Programs -- Efficient Computation of Communicator Variables for Programs with Unstructured Parallelism -- Compiling High-Level Languages for Vector Architectures -- HiLO: High Level Optimization of FFTs -- Applying Loop Optimizations to Object-Oriented Abstractions Through General Classification of Array Semantics -- MSA: Multiphase Specifically Shared Arrays -- Supporting SQL-3 Aggregations on Grid-Based Data Repositories -- Supporting XML Based High-Level Abstractions on HDF5 Datasets: A Case Study in Automatic Data Virtualization -- Performance of OSCAR Multigrain Parallelizing Compiler on SMP Servers -- Experiences with Co-array Fortran on Hardware Shared Memory Platforms -- Experiments with Auto-Parallelizing SPEC2000FP Benchmarks -- An Offline Approach for Whole-Program Paths Analysis Using Suffix Arrays -- Automatic Parallelization Using the Value Evolution Graph -- A New Dependence Test Based on Shape Analysis for Pointer-Based Codes -- Partial Value Number Redundancy Elimination -- Overflow Controlled SIMD Arithmetic -- Branch Strategies to Optimize Decision Trees for Wide-Issue Architectures -- Extending the Applicability of Scalar Replacement to Multiple Induction Variables -- Power-Aware Scheduling for Parallel Security Processors with Analytical Models.