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Automatic Tuning of Scientiï¬c Applications
A Scalable Auto-tuning Framework for Compiler Optimization Ananta Tiwari1, Chun Chen2, Jacqueline Chame3, Mary Hall2 and Je rey K. Hollingsworth1 1University of Maryland 2University of Utah Department of Computer Science School of Computing College Park, MD 20740 Salt Lake City, UT 84112

A Scalable Auto-tuning Framework for Compiler Optimization

compiler auto-tuning problem using DSE techniques and an machine learning algorithm. The assessments demonstrate positive speedup on the performance metrics while classify-ing the e ective compiler options derived by the methodol-ogy in DSE approach and hitting in average 40-60% speedup with respect to GCC -O2 and -O3 on an ARM embedded-board.

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