

The Interaction of Compilation Technology and Computer Architecture



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Reviews

This is basically the best publication i have got read through right up until now. Sure, it really is perform, still an amazing and interesting literature. Your life span will probably be convert once you full reading this article ebook.

(Dr. Irma Welch)

THE INTERACTION OF COMPILATION TECHNOLOGY AND COMPUTER ARCHITECTURE

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Springer Mai 1994, 1994. Buch. Book Condition: Neu. 235x155x22 mm. This item is printed on demand - Print on Demand Neuware - In brief summary, the following results were presented in this work: - A linear time approach was developed to find register requirements for any specified CS schedule or filled MRT. - An algorithm was developed for finding register requirements for any kernel that has a dependence graph that is acyclic and has no data reuse on machines with depth independent instruction templates. - We presented an efficient method of estimating register requirements as a function of pipeline depth. - We developed a technique for efficiently finding bounds on register requirements as a function of pipeline depth. - Presented experimental data to verify these new techniques. - discussed some interesting design points for register file size on a number of different architectures. REFERENCES [1] Robert P. Colwell, Robert P. Nix, John J O'Donnell, David B Papworth, and Paul K. Rodman. A VLIW Architecture for a Trace Scheduling Compiler. In Architectural Support for Programming Languages and Operating Systems, pages 180-192, 1982. [2] C. Eisenbeis, W. Jalby, and A. Lichnewsky. Compile-Time Optimization of Memory and Register Usage on the Cray-2. In Proceedings of the Second Workshop on Languages and Compilers, Urbana l/inois, August 1989. [3] C. Eisenbeis, William Jalby, and Alain Lichnewsky. Squeezing More CPU Performance Out of a Cray-2 by Vector Block Scheduling. In Proceedings of Supercomputing '88, pages 237-246, 1988. [4] Michael J. Flynn. Very High-Speed Computing Systems. Proceedings of the IEEE, 54:1901-1909, December 1966. 300 pp. Englisch.



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