



## Automatic Exploitation of Concurrency in C: Is It Really So Hard? (Classic Reprint)

By Lori S Grab

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Automatic Exploitation of Concurrency in C: Is It Really So Hard? The vast majority of work being done today on the automatic exploitation of concurrency, for both multiprocessors and vector machines, is not being done for C. Yet there are many important applications, written in C, which would benefit immensely from the speedup produced by such techniques. Many more applications would be written in C were there optimizing, vectorizing and parallelizing compilers for the language. In this paper we consider whether it is possible to have compilers that will automatically exploit concurrency in C. We discuss the relationship between automatic exploitation of concurrency for the purposes of vectorizing and multiprocessing. We review the basic techniques and transformations used and examine the necessary conditions to perform these transformations, with examples in C. Several elements of the C language and programming style, such as pointers and recursion, make it difficult to do the necessary data flow analysis. There are two possible approaches to this problem: to bypass code or blocks of code that contain difficult features and...



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