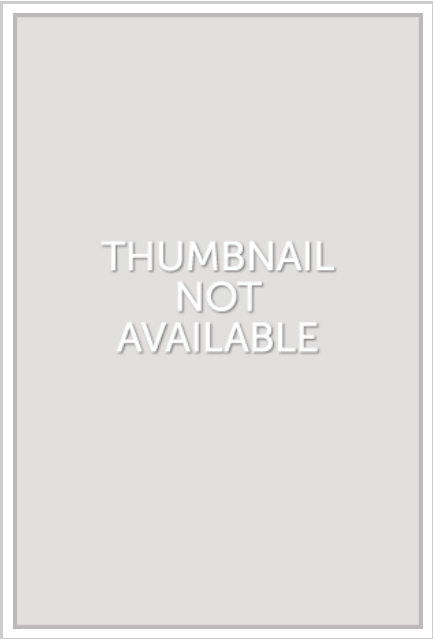




# Scheduling and Automatic Parallelization (Hardback)

By Alain Darte, Yves Robert, Frederic Vivien

BIRKHAUSER BOSTON INC, United States, 2000. Hardback. Book Condition: New. 2000 ed.. 261 x 183 mm. Language: English . Brand New Book ***** Print on Demand *****.Readership This book is devoted to the study of compiler transformations that are needed to expose the parallelism hiddenin a program. This book is notan introductory book to parallel processing, nor is it an introductory book to parallelizing compilers. Weassume thatreaders are familiar withthebooks High Performance Compilers for Parallel Computingby Wolfe [121] and Super-compilers for Parallel and Vector Computers by Zima and Chapman [125], and that they want to know more about scheduling transformations. In this book we describe both task graph scheduling and loop nest scheduling. Taskgraphschedulingaims atexecuting tasks linked by prece-dence constraints; it is a run-time activity. Loop nest scheduling aims at ex- ecutingstatementinstances linked bydata dependences;it is a compile-time activity. We are mostly interested in loop nestscheduling,butwe also deal with task graph scheduling for two main reasons: (i) Beautiful algorithms and heuristics have been reported in the literature recently; and (ii) Several graphscheduling, like list scheduling, are the basis techniques used in task ofthe loop transformations implemented in loop nest scheduling. As for loop nest scheduling our goal is...



### Reviews

*This publication is fantastic. It really is full of knowledge and wisdom You are going to like just how the author write this publication.*

-- ***Harmon Watsica II***

*A top quality ebook and the font used was fascinating to read through. It is writter in easy terms and not confusing. Its been written in an remarkably easy way in fact it is simply after i finished reading through this publication through which actually altered me, alter the way i believe.*

-- ***Roberto Block***