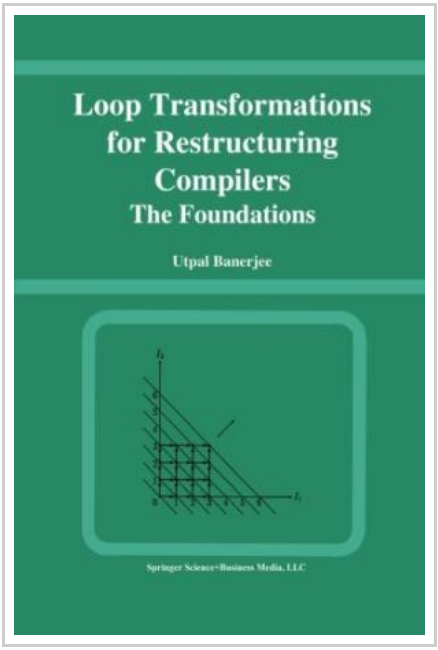


DOWNLOAD

Loop Transformations for Restructuring Compilers: The Foundations

By Utpal Banerjee

Springer-Verlag New York Inc., United States, 2013. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Automatic transformation of a sequential program into a parallel form is a subject that presents a great intellectual challenge and promises great practical rewards. There is a tremendous investment in existing sequential programs, and scientists and engineers continue to write their application programs in sequential languages (primarily in Fortran),but the demand for increasing speed is constant. The job of a restructuring compiler is to discover the dependence structure of a given program and transform the program in a way that is consistent with both that dependence structure and the characteristics of the given machine. Much attention in this field of research has been focused on the Fortran do loop. This is where one expects to find major chunks of computation that need to be performed repeatedly for different values of the index variable. Many loop transformations have been designed over the years, and several of them can be found in any parallelizing compiler currently in use in industry or at a university research facility. Loop Transformations for Restructuring Compilers: The Foundations provides a rigorous theory...

READ ONLINE
[7.77 MB]

Reviews

The publication is not difficult in go through better to comprehend. I could comprehended everything using this created e publication. Its been designed in an exceptionally easy way in fact it is merely soon after i finished reading through this ebook by which basically transformed me, modify the way i really believe.

-- ***Taylor Gleason***

This publication is definitely not effortless to get going on reading but very fun to learn. It really is writter in simple terms rather than difficult to understand. Its been printed in an extremely simple way and it is merely right after i finished reading through this pdf by which basically changed me, alter the way in my opinion.

-- ***Scotty Paucek***