

Parallelism Analysis And Extraction Of Digital Signal Processing Algorithms

Elleithy, K.M. Amin, A.A.M.;Dept. of Comput. Eng., King Fahd Univ. of Pet.Miner., Dhahran;

Signals, Systems and Computers, 1994. 1994 Conference Record of the Twenty-Eighth Asilomar conference;Publication Date: 31 Oct-2 Nov 1994;Vol: 2,On page(s):

1041-1045 vol.2;ISBN: 0-8186-6405-3

King Fahd University of Petroleum & Minerals

<http://www.kfupm.edu.sa>

Summary

A new approach for parallelism analysis and extraction of digital signal processing algorithms is introduced. The high level description of the input is given in CIRCAL. A dependency graph of the problem is constructed to check existence of cycles. Loops in the dependency graph are parallelized. The approach is illustrated by an example

For pre-prints please write to:abstracts@kfupm.edu.sa