

Roelofs, J. (2009). **Tiling Visualizer: A tool for visual demonstration of 2D loop tilings.**
Front Range Architecture Compilers Tools And Languages Workshop, Spring 2009

Abstract

Tiling Visualizer is a tool written in Java which helps to visualize rectangular tilings of 2-dimensional loops bounded by polyhedra. Tiling is a loop transformation that modifies the loops schedule for improved data locality and to expose large-grained parallelism. Previously visualizations of loop tilings were static illustrations drawn by hand, and every time an adjustment was needed, the image had to be redrawn laboriously. With this tool, there is now an automated process for creating pdf images for talks and papers used to illustrate tiling in a classroom setting. In this talk we lead the audience through a brief tutorial on the use of the Tiling Visualizer.