Five-minute review

"Realizing Reconfigurable Mesh Algorithms on Softcore Arrays"
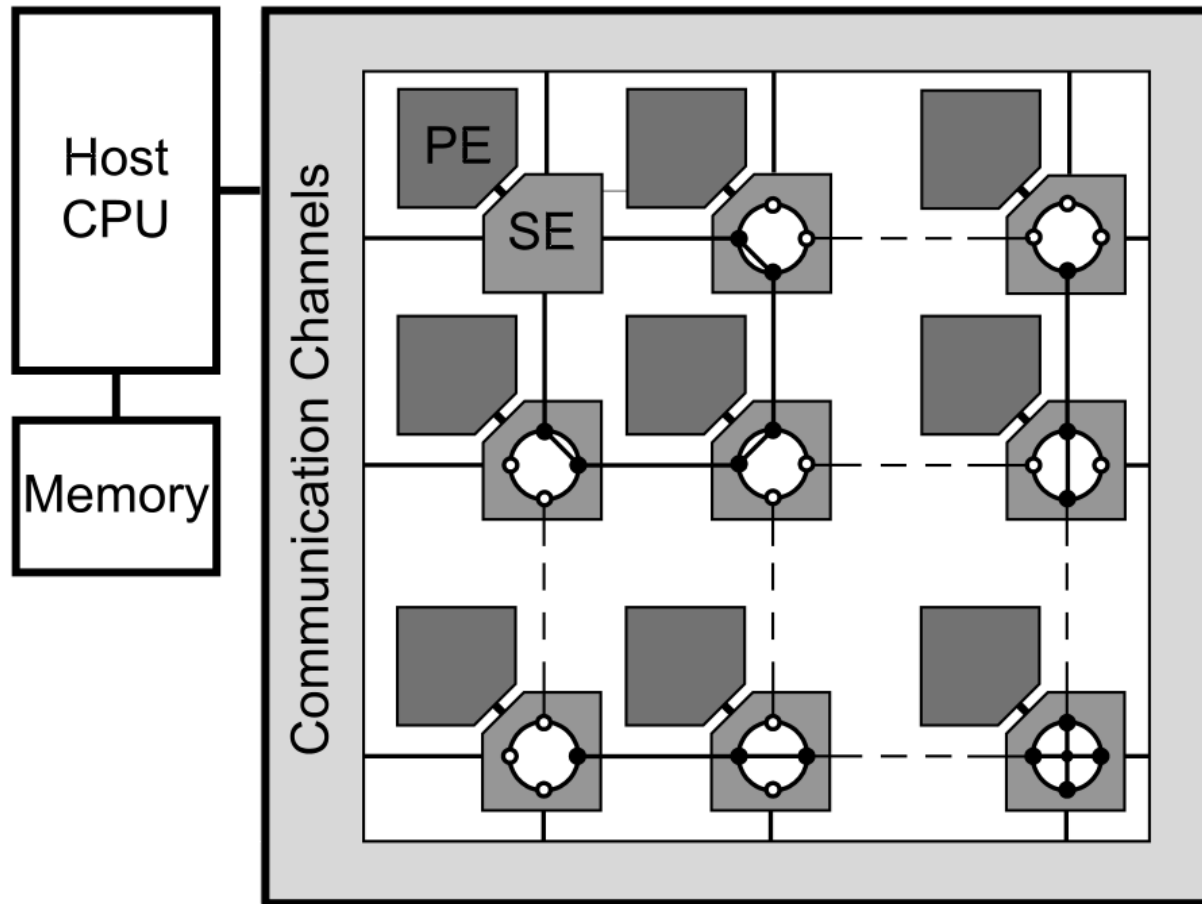
GIEFERS , Heiner (Universität Paderborn)
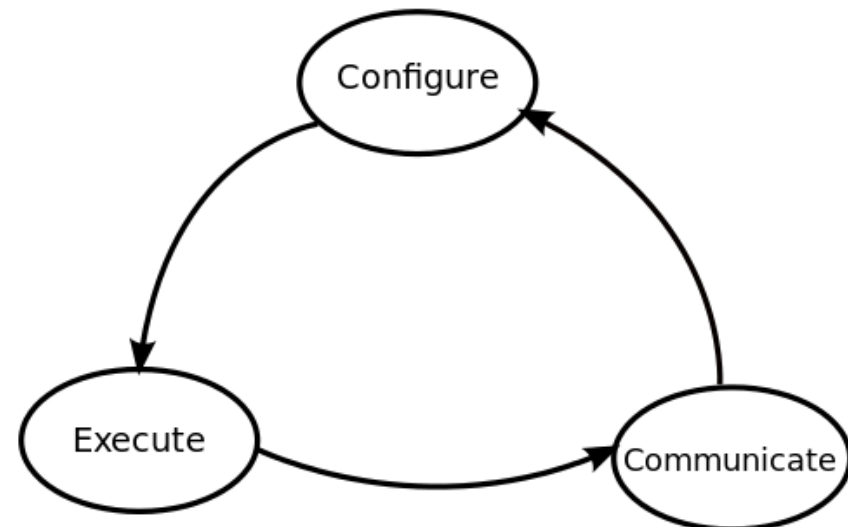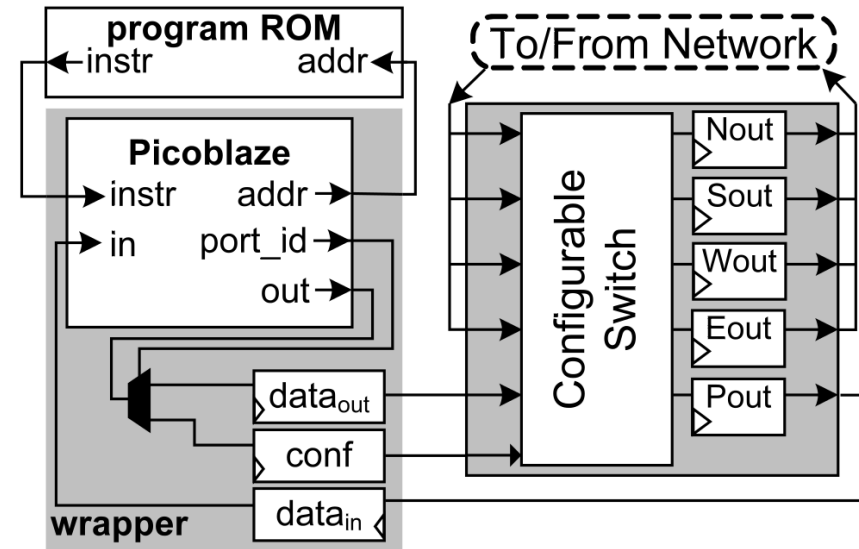PLATZNER, Marco (Universität Paderborn)

Motivation/Problem

- Reconfigurable Mesh (RMESH) seems a <u>very interesting</u> way to describe algorithms

  - Ex: Parallel sort with O(1) runtime complexity

- We need an easy-to-implement, robust and flexible platform to evaluate the RMESH model

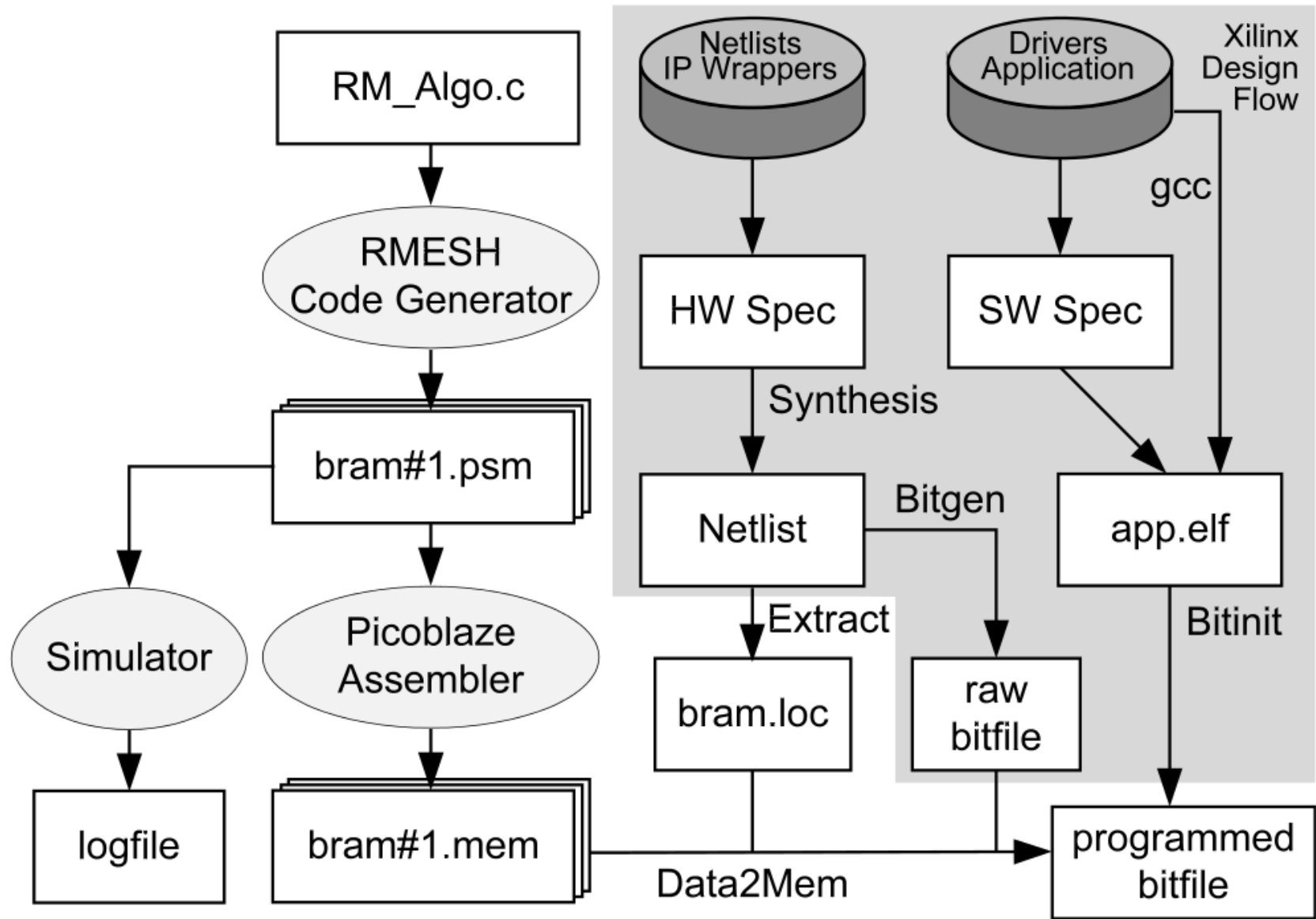 - We use an 2D-array of Picoblazes (very lightweight softcores from Xilinx)

How does it work?

System architecture

How does it work?

Code generation for each Picoblaze   HW synthesis & Host processor SW generation

Any questions?

- ## Full paper

  - Heiner Giefers, Marco Platzner, "Realizing Reconfigurable Mesh Algorthms on Softcore Arrays", Embedded Computer Systems: Architectures, Modelling and Simulation, International Conference on.

- Heiner Giefers' homepage @ Uni Paderborn

  - http://www.cs.uni-paderborn.de/fachgebiete/computer-engineering-grou