

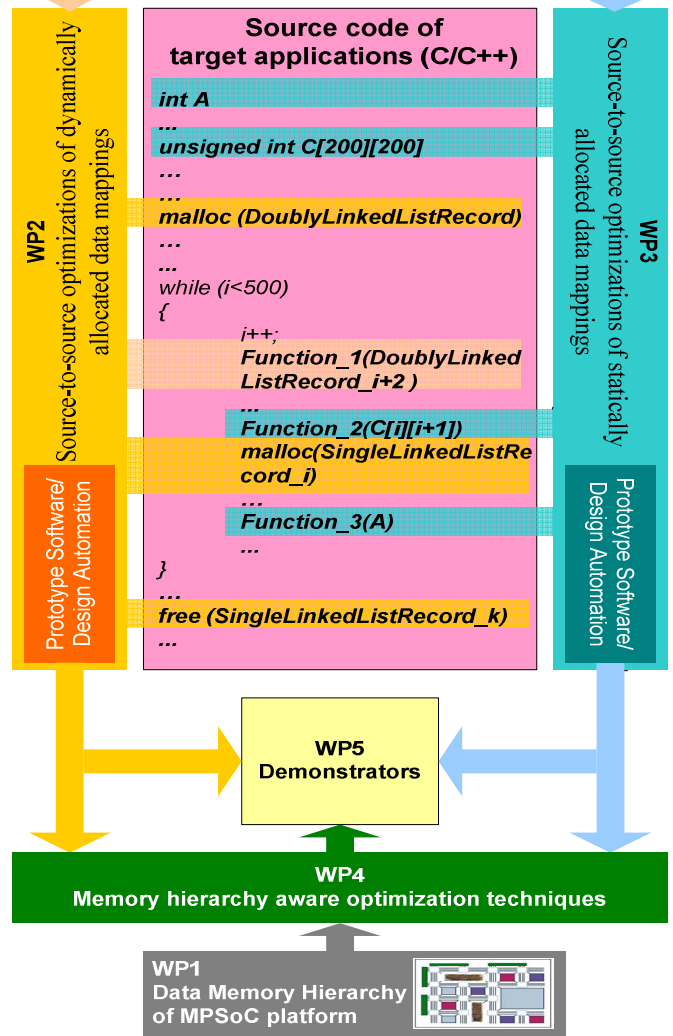
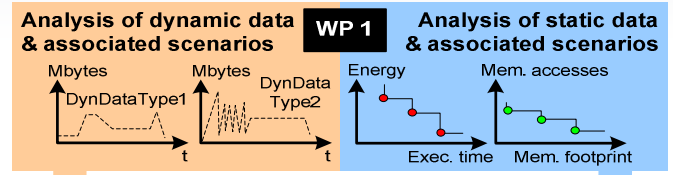
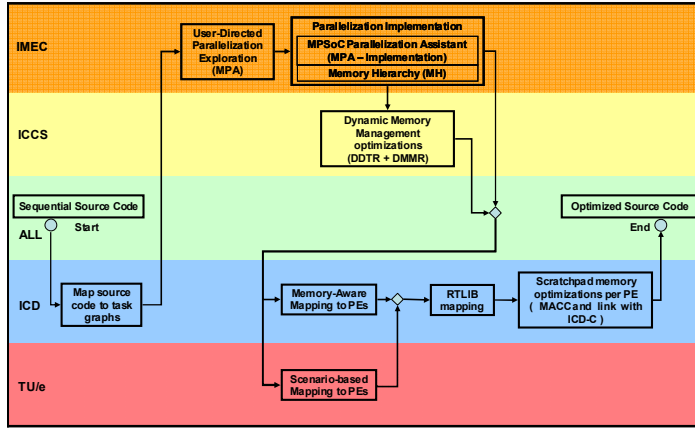


MNEMEE

Memory management technology for adaptive and efficient design of embedded systems



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Motivation:

- Complex and dynamic embedded applications with huge resource requirements and real time constraints
- Inefficient memory management in MPSoC embedded platform
- Short time-to-market – need for automatic tool to serve design time and runtime needs

Proposed solution:

- Introduction of a novel source-to-source optimization design layer for data management in MPSoC embedded systems
- Develop a set of prototype tools for the Multi-objective exploration that enable trade-offs during source-to-source optimization process.
- Provide data memory-hierarchy aware assignment and scheduling methodologies

Current Status of Results:

- Stand-alone prototype tools available from partners
- Industrial partners using tools for application
 - IEEE 802.16e (mobile WiMAX)
 - H.264 AVC for DVD and digital TV.
- Tools have been confirmed to support Industrial platform
- Planned integration by end of 2009

PROJECT FACTS

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 7th FP – IST-216224
 Website: www.mneme.org
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 University: TUEindhoven (NL), ICCS (Greece)
 Duration: 36 Months; Effort: 424 person-months;
 Start date: 1st January 2008

