



MNEMEE



Memory management technology for adaptive and efficient design of embedded systems

Scope :

- Efficient data access and storage of both dynamically and statically allocated data
- Assignment of data to the memory hierarchy

Challenges:

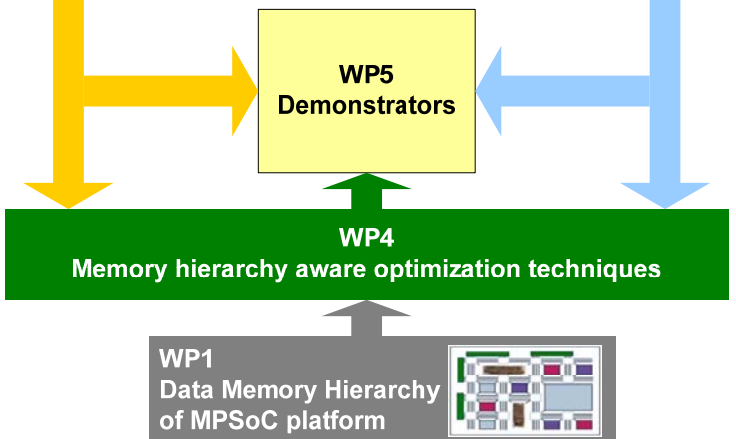
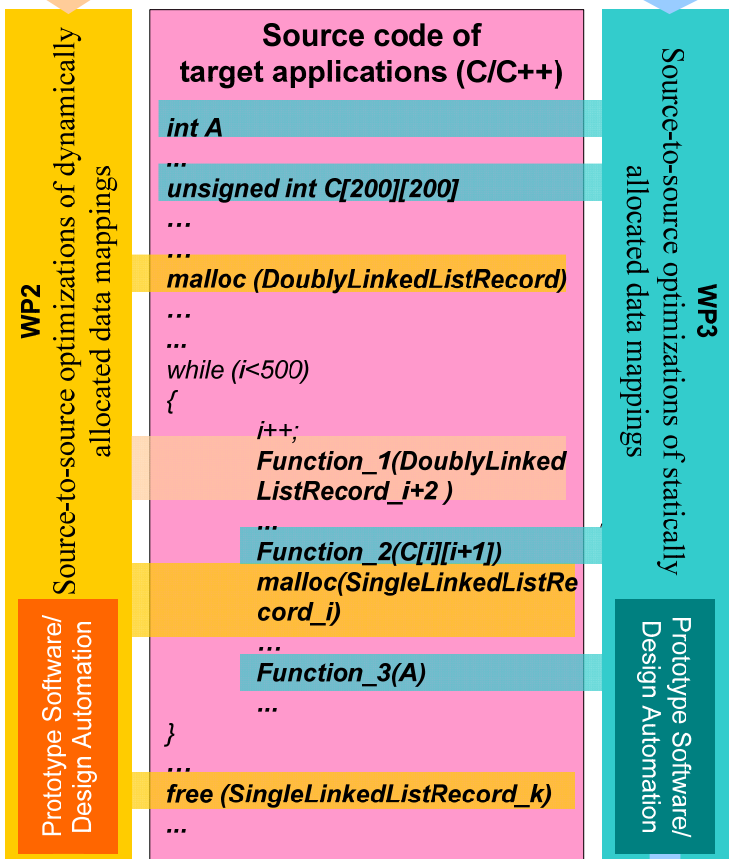
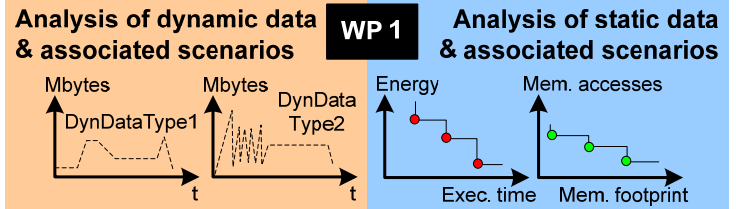
- Complex, dynamic source code in embedded software
- Optimizations for efficient memory mapping are required
- Short time-to-market

Proposed solution:

- Multi-objective exploration that enable trade-offs
- Combination of design-time and run-time optimization methodologies
- Automation tools will support the methodologies

Expected Results:

- 50% reduction in design time
- 30% reduction in memory footprint and bandwidth requirements
- 50% improved energy and power efficiency



PROJECT FACTS

European Community funded, 7th FP – IST-216224
Website : www.mneme.org

Industry : Thales (France), Intracom (Greece) ICD (Germany)

University : TUEindhoven (NL), ICCS (Greece)
Research Centre : IMEC (Belgium)

Duration : 36 Months
Effort : 424 person-months
Start date : 1st January 2008

