Timing-Architects Embedded Systems GmbH

Model-based simulation and optimization tools for embedded multicore system design and development

Dr.-Ing. Michael Deubzer, Dr.-Ing. Martin Hobelsberger
Complexity of Embedded Systems
Multiplication of computing power

Enormous energy savings

Next State-of-the-art
3 x more developers
4.5 x higher costs for development
25% longer time of development
Challenge Adapted to Practical Automotive Systems

1,000,000 lines of code
5,000 functions
20,000 signals
50,000 dependencies

→ Manual solutions are not sufficient for the multicore challenge!
Necessity of Realtime-Analysis

Example: Airbag
Verification Analogy - Emission Check
Model-based simulation and optimization tools for embedded system design and development. Analysis and Optimization of the realtime behavior, the ressource efficiency and the robustness of embedded realtime multi- and manycore systems.
Analysis and Optimization of the realtime behavior, the resource efficiency and the robustness of embedded realtime multi- and manycore systems.
Analysis and Optimization of the realtime behavior, the ressource efficiency and the robustness of embedded realtime multi- and manycore systems.
High-Performance Computing in the Cloud
Portfolio

Products
- Software Partitioning
- Timing Evaluation
- Software Allocation

Services
- Customization Services
- Evaluation and Optimization Services
- Trainings and Workshops

www.timing-architects.com
Because we like challenges