

emmtrix Parallel Studio - The complete solution for programming heterogeneous systems

Programming embedded systems is becoming more and more complex. Modern high performance systems employ multicore processors assisted by accelerators for special functions. These accelerators can be restricted to a fixed functionality or can be more flexible by using technologies like GPUs and FPGAs. However, this flexibility comes with a much higher development effort, as C dialects like OpenCL C and CUDA C or hardware description languages like VHDL and Verilog respectively need to be used.

Interactive Parallelization

emmtrix Parallel Studio (ePS), Version 2017.10.13 introduces a new way to program heterogeneous systems without the need for different languages. Starting from a single implementation of the program, either in model-based tools like MATLAB®/Simulink® or Scilab/Xcos or from plain C, developers can easily distribute the processing across all available execution units of the target system. With the help of our innovative GUI, users can interactively assign tasks to processing elements and directly get feedback about the expected performance. When desired, these decisions can be performed by automated algorithms, which also handle programming tasks that are prone to errors like synchronization of data or access to shared resources. At last, the easily adaptable code generator automatically generates the necessary code for the platform.



Contact:

emmtrix Technologies GmbH
Haid-und-Neu Straße 7
76131 Karlsruhe, Germany

Phone: +49 721 1803 2885
Fax: +49 721 1803 2889
Email: contact@emmtrix.com
Web: www.emmtrix.com