emmtrix Code Generator
- Efficient
- Portable
- Readable C/C++ code

emmtrix Parallel Studio
Parallel C code for multicores and accelerators

emmtrix Services

- Tool Customization
- Workflow Integration
- Technical Consulting
- User Trainings

emmtrix Technologies – Your Tool Provider for Embedded Software Development

Some Supported Platforms:

infineon	arm	RENESAS
AURIX	CORTEX	R-CAR

NVIDIA	PowerPC	TEXAS INSTRUMENTS
JETSON	Power PC	DSP

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Partners:

infineon   TASKING.   esi   E4Y   HIGHTEC   KIT

emmtrix Technologies

Multicore Programming Made Easy

emmtrix Code Generator

Next Level of Multicore Programming.
Efficient. Simple. Effective.

Efficient and readable embedded sequential C code generation from MATLAB®, Simulink®, Scilab or Xcos optimized for parallelization

- ISO C90, C++98 and C++11 compliant code generation
- Performance & Memory analysis
- Highly comprehensive target-optimized C/C++ code
- User-controlled cache and memory optimization
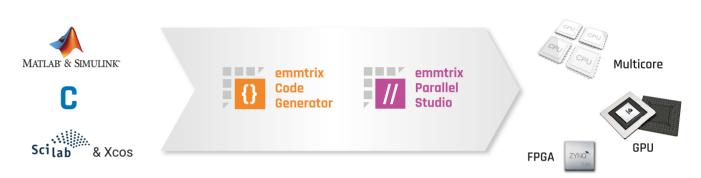- Bidirectional traceability via code generation reports

MATLAB® & SIMULINK®

C

Scilab & Xcos

emmtrix Code Generator

emmtrix Parallel Studio

Multicore

FPGA   GPU

emmtrix Parallel Studio

User-configurable automated development of parallel C code for embedded multicore systems, GPUs and FPGAs

- Automated generation of parallel C code
- Interactive optimization with user-friendly Eclipse-based GUI
- Performance prediction
- Rapid prototyping
- Support for common parallel programming interfaces (MPI, OpenMP, OpenCL, PThreads, Cuda, etc.)

Development	Code Generation	Parallelization	Deployment
Input languages: MATLAB®/Simulink® or Scilab/Xcos or C	Output Code Generator: Sequential C code	Output Parallel Studio: Parallel C code for the target platform	Target platforms: Multicore CPUs, Systems on Chip (FPGA, GPU)

More Speed

- Improve your application response time and processing throughput
- Performance prediction early on in the development process
- Speed up your applications with the use of powerful and complex hardware

More Quality

- Correct-by-design approach
- Integrated functional tests for sequential and parallel code
- Develop safety-critical applications (e.g. ISO 26262 and DO178C)

More Done

- Automate and stay in control
- Model-based software development for multicore targets
- Simple workflow integration