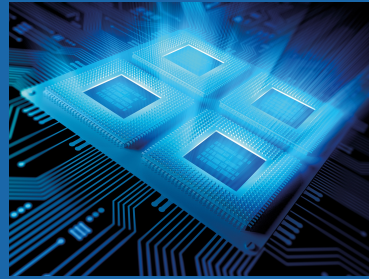**emmtrix**
Technologies

Get Your Code Better with New emmtrix Tools

emmtrix Newsletter, October 2023

{{ contact.ANREDE }},

This edition of our newsletter will focus on our **new analysis tools** *emmtrix Performance Estimator (ePE)* and *emmtrix Dependency Analyzer (eDA)*, but first we want to point to our latest trade show appearance at ELIV 2023. We also have a nifty new tool overview for you at the end of this newsletter.

EUROPE ELIV

October 18 & 19 | Bonn, Germany
ELIV 2023
Booth 209
Presentation - October 18, 17:00hrs, start-up area

Take the opportunity to meet our team members Rainer Heim and Michael Rückauer at ELIV 2023 and experience first-hand how our advanced analysis tools can significantly improve the efficiency and add to the relability and safety of your applications.

Why You Should Visit Our Booth 209
*See your data dependencies within your C code and verify your AUTOSAR specification
*Learn how to effectively estimate program runtimes
*For all programming geeks: discover our *C++ to C Compiler* with a complex example / ORB-SLAM
*See live demonstrations of how our tools can optimize your development processes

Join Our Short Presentation
Additionally, come to our presentation in the start-up area, where we will discuss the *Use of static source code analysis in software development for the automotive industry*.

Let's Meet in Bonn
To pre-arrange a one-to-one meeting, please feel free to contact Rainer Heim directly at +49 170 447 2986 or via email at rainer.heim@emmtrix.com.

[Make an appointment]

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Performance Estimator

emmtrix Performance Estimator (ePE) is our new tool to estimate the runtime of your applications on different embedded processors. Using static source code analysis of the C code or the assembly output of your favourite compiler, an estimation of task runtimes can be made starting very early in the development without the need of the actual target platform.

The results can be automatically generated in CI flows where they are written into interactive, sortable and searchable HTML reports. Alternatively, the results of the performance estimation can be visualized using our interactive and zoomable hierarchical program view.

ePE can be used to increase the timing awareness throughout the software development, from function developers to the software architects. With the support for different popular processors (Infineon AURIX, ARM Cortex, PowerPC...), **ePE** can also be used to explore the best fitting architectures for your project.

Interested in our tool **emmtrix Performance Estimator**? Request a demo here:

Request a demo

emmtrix Dependency Analyzer

emmtrix Dependency Analyzer (eDA) is our new tool to assist you with the safety analysis of your applications. Results from a data dependency analysis of the source code can be used to:
*Verify freedom from interference
*Propagate different safety levels of variables
*Detect mixed criticality dependencies (variables with different safety levels)
*Verify event chains between input and output signals of the system

A further use case is the optimization of your testing strategies by identifying which subsystems are affected by a change in the source code and, more importantly, which subsystems are not and therefore do not have to be tested again.

The tool can easily be integrated into CI flows offering automation, versioning and logging.

Interested in our tool **emmtrix Dependency Analyzer**? Request a demo here::

Request a demo

We've redesigned our tool portfolio to enable customers to pick the functionality they require.

Your Benefits
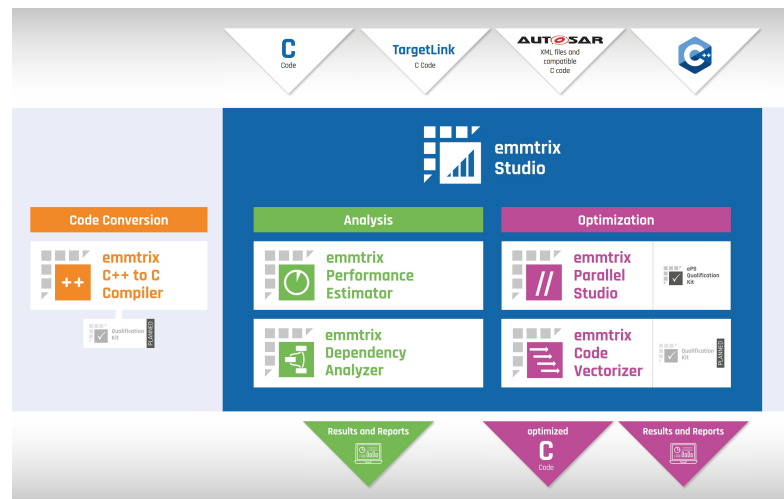***Greater clarity:** Easily identify the tool / tool combination that works best for you
*Individual packages for the most common use cases
*One graphical user interface for all products facilitates the combined use

Upcoming Features
CI Workflow Integration of emmtrix Tools (**ePE** and **eDA**). Both of these tools offer an additional CI integration to provide automated results, reporting and logging / versioning.

emmtrix Tool Overview

Request a demo

Best regards

Your emmtrix team

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