

## INCODIO and SCALE-RT – new tools for automotive Software-in-the-Loop applications

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Wangen, April 9, 2009 - Software-in-the-Loop simulation provides advantages at an early test stage and for automated calibration of an ECU-software (e.g. engine and transmission control) in the laboratory. The original software of an ECU coupled with continuous models of the vehicle is then simulated by means of one or several PCs.

The original software of the ECU is designed for special microprocessors and includes C Files as well as Files for the description of the dynamic behavior of a vehicle function

(MSR, OSEK/VDX, AUTOSAR) and for measurement and calibration variables (ASAM-MCD-2MC).

Additional changes have to be implemented before realizing Software-in-the-Loop simulation of the original software, because of microprocessor specific commands and calibration data specific record layouts. Another challenge is to correctly validate the ECU software and the function of the original software.

The new tools INCODIO® by SYSTECS and SCALE-RT by COSATEQ perfectly support this application.

INCODIO® integrates the original ECU software and couples with simulation system SCALE-RT to perform any automotive SiL applications.

### About SYSTECS

SYSTECS is a leading company in providing innovative software technologies for tools and embedded software development. Our portfolio comprises Consulting in areas such as product line, architecture and model based software development and the product INCODIO® for automotive SiL-Application. Customers are considerable companies of the automotive and construction industries.

### About COSATEQ

COSATEQ is a leading company in the field of simulation and control engineering.

The company has attracted highly qualified engineers from areas such as computer science, IT, electrical and mechanical engineering. Its strong workforce are involved in developing innovative solutions for reputable companies operating in the aviation, automotive, engineering, and special solution industries. COSATEQ's development site is based in Wangen/Allgaeu (Germany).

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