AURIX 2G Tools
Brief Overview and Roadmap

IFCN ATV SMD GC SAE MC

Tooling landscape overview

SW drivers, libraries

SW modules that will be utilized in the application (Low Level driver for peripherals (incl AUTSAR), Math /–Crypto Libs, Communication driver (CAN, TCPIP,…)

Software Verification

Programming services

Flash tools

HW Devices to program the embedded Flash

Operating system

Control SW that will be linked with the application. Main Functions: Task Mgmt, Interrupt Mgmt, Memory Mgmt

Compiler IDE

Integrated **D**evelopment **E**nvironment consisting of: Editor, C and C++ Cross Compiler, Assembler, Linker, Locator and partly including OS, Instruction Set Simulator and Source-Level Debugger.

The output is a native code that runs on the microcontroller

C-Model based simulation

SW Models (C model) of the Microcontroller integrated in a simulation frameworks to test applications SW without HW

Timing/ scheduling

Code generation and configuration tools

Tool that generate application SW based on higher abstraction layers (i.e. graphical GUI)

Calibration

Optimization of parameters (tables) of the app. SW

Starter kits / application kits

Evaluation boards including ready to run demonstration software

Debugger

Consist of a SW/HW system designed to help locate and correct bugs within a target application. Instead, the debugger can be connected to a simulation engine

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AURIX™ and AURIX TC3xx tool partners [short list]

Embedded Software	ARC CORE	elektrobit	Embedded brains	Etas	KPIT	Vector
Simulation/ Virtual Prototyping	Synopsys	ASTC				
Integrated Compiler Environments	Altium TASKING	Hightec	WindRiver			
Auto Code Generation Tools	dSPACE	Etas				
Timing/ Scheduling Analysis	AbsInt	GLIWA	Luxoft	Timing Architects		
Operating Systems	easycore	elektrobit	Etas	Vector		
Debugger and Test Tools	iSYSTEM	Lauterbach	PLS	Jandtech		
Data Measurement Calibration & Rapid Prototyping	ATI	dSPACE	Etas	Vector		
Programmer /Flash Tools	Data IO	PLS	ProMik	SMH		
Software Verification and Testing	AbsInt	GAIO	iSYSTEM			
Training /Services	Göpel	Hitex	HTV	MicroConsult		

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