

Participation in the evolution of the standardization for embedded software for automotive industry

➤ Motivation

- ▶ Include Czech Republic in active participation in the European software technology process for standardization of automotive software.

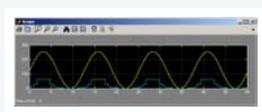
➤ Project Goals

- ▶ Active participation in the European standardization process in open consortiums (AUTOSAR), led by such industry leaders as Daimler-Chrysler, Porsche, VW, Audi, Motorola, etc.
- ▶ Development of matching development tools to standardize requirements
 - ▶ development of software technologies and tools
 - ▶ integration of new technologies with existing tools in automotive toolchain
 - ▶ development of formal processes and methodologies according standardization requirements
 - ▶ certification, validation

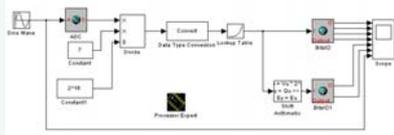
➤ Results (first 9 months)

- ▶ Membership in AUTOSAR consortium
- ▶ Processor Expert Blockset – simulation software (MATLAB/Simulink) and rapid application development (Processor Expert) integration
 - ▶ simulation hardware components
 - ▶ architecture independent code generating (Embedded RTW)
 - ▶ AUTOSAR standard support

2. verify (simulate) model



1. create model



3. generate code (PE + RTW)



4. use in HW



UTIA, Dept. of Signal Processing
Pod Vodárenskou věží 4
182 08 Praha 8, CZE
<http://www.utia.cas.cz/ZS>



Czech Technical University in Prague
Faculty of Electrical Engineering
Technická 2, 166 27 Praha 6, CZ
<http://dce.felk.cvut.cz>



UNIS, spol. s r.o.
Jundrovská 33
624 00 Brno, CZE
<http://www.unis.cz>