



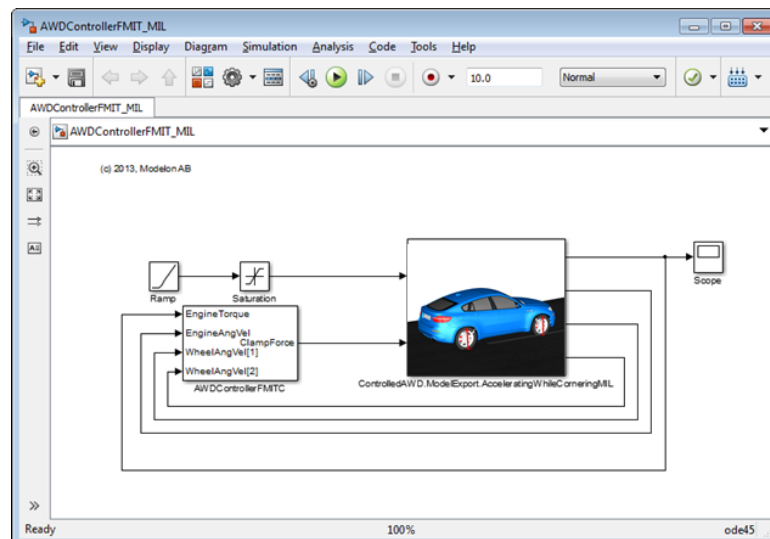
FMI SIMULATION IN DSPACE DS1006

With FMI Toolbox for MATLAB/Simulink



FMI TOOLBOX

for MATLAB®/Simulink



Key features

- Export and import of Model Exchange and Co-simulation FMUs
- Simulink blockset and MATLAB script interface
- Design of Experiments and design space exploration
- HIL simulation on dSPACE DS1006 systems

Roadmap

- FMI 2.0 support Q3-2014

INTRODUCING DS1006 SUPPORT IN FMIT

- FMU block provided by FMIT supports code generation with Simulink Coder
 - FMU export
 - HIL targets
- Support for source code FMUs 1.0 (ME and CS)
- Cross compile to DS1006
- Verified with FMUs generated by Dymola

Available in FMIT-1.8
March 2014



WORKFLOW

FMU
Simulation

Build model

FMU import

Run on dSPACE
DS1006 system

FMU

SUMMARY

- HIL support for FMI Toolbox for MATLAB/Simulink Coder Add-on
- Verified to work for dSPACE DS1006 with Dymola source code FMUs
- Available in FMIT-1.8, March 2014
- For more information: <http://www.modelon.com>