

Dymola 2018

Overview of new features

2 June 2017

Executive Summary

Modeling and simulation

- Support for creating template models from existing models. Such refactoring of models is facilitated by Dymola suggesting suitable base classes and replaceable components.
- Enhancement to analyze the interaction between models and the numeric integration, helping the user to improve models for more efficient simulation and to tune the numeric integration.
- To improve simulation performance, support for sparse numeric solvers has been extended. Inline implicit solvers have been implemented for predictable real-time behavior of embedded code.

New Modelica libraries

- Thermal Systems Library
- Vehicle Systems Modeling and Analysis (VeSyMA) Library
- Vehicle Systems Modeling and Analysis (VeSyMA) Powertrain Library
- Vehicle Systems Modeling and Analysis (VeSyMA) Suspensions Library

2

Iref: 3DS Document 2015

Several The 3DEXPERIENCE Company























