

Simulink® Compiler™ Release Notes



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R2020a

Version: 1.0

New Features

Introducing Simulink Compiler

Simulink® Compiler™ enables you to share Simulink simulations as standalone executables. You can build the executables by packaging the compiled Simulink model and the MATLAB® code used to set up, run, and analyze a simulation. Standalone executables can be complete simulation apps that use MATLAB graphics and UIs designed with MATLAB App Designer. To cosimulate with an external simulation environment, you can generate standalone Functional Mockup Unit (FMU) binaries that adhere to the Functional Mockup Interface (FMI) standard.

To provide browser-based access to your deployed simulation, you can create a web app and host it with MATLAB Web App Server™. Simulink simulations can be packaged into software components for integration with other programming languages (with MATLAB Compiler SDK™). Large-scale deployment to enterprise systems is supported through MATLAB Production Server™.

Supports sim Command API

Simulink Compiler only supports `sim` function syntax that takes `Simulink.SimulationInput` object and returns `Simulink.SimulationOutput` object.

Any APIs making a structural change to the model, such as `add_block`, `set_param` are not supported.

Export Models to FMU

As a part of Simulink Compiler now you can export models to Functional Mock-up Unit (FMU) that supports Co-Simulation in FMI version 2.0.