

Learning Module

Co-simulation with Abaqus and Dymola

Abaqus-Dymola co-simulation is useful when logical modeling needs to be included in a physical system simulation; for example, it can be used to couple Antilock Braking System (ABS) logic modeled in Dymola with an Abaqus rolling tire and brake simulation.

Objectives

Upon completion of this course you will be able to:

- Set up an Abaqus model for Abaqus-Dymola cosimulation.
- Create a simple control system in Dymola.
- Run a co-simulation.

Knowledge Prerequisites

None

Language(s) for selected release

English

Brands

Simulia

Available Releases

SIMULIA 2021, SIMULIA 2020, SIMULIA 2019, SIMULIA 2018, SIMULIA 2017, SIMULIA 2016, SIMULIA V6.14, SIMULIA V6.13, SIMULIA V6.12

Duration

4 hours

Discipline

Advanced Abaqus

Contents

Overview - Co-simulation with Abaqus and Dymola

1 - Abaqus-Dymola co-simulation

2 - Introduction to Dymola

3 - Co-simulation features in Abaqus and execution

4 - Interpretation of results