

Knowledge Base

Information



Abaqus/CAE Plug-in for Logical-Physical Modeling with Dymola

Portfolio / Domain: SIMULIA Abaqus Unified FEA / n/a
Product: n/a

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QUESTION

I am using SIMULIA's multiphysics capability to perform logical-physical modeling simulations with Abaqus and Dymola. Does Abaqus/CAE provide any support for this type of simulations?

ANSWER

(The following applies to Abaqus 6.9 and higher.)

An easy-to-use Logical-Physical plug-in has been created that offers a unique interactive approach to managing the entire logical modeling workflow within the Abaqus/CAE environment. This plug-in is available for download with this Answer. The installation instructions are available in the attached User's Guide, Abaqus_Dymola_PluginGuide.pdf.

The module supports Dymola. In order for the plug-in to function properly, your logical code must be configured to run on the machine that will be used to run Abaqus/CAE. The attached User's Guide provides detailed information on the installation, set-up and usage of the plug-in. Also attached are the input files for the example problem described in the User's Guide.

Revision History

05 Jan 10	Release of Version 1.1-1
14 Feb 11	Release of Version 1.2-1 for Abaqus/CAE 6.10 and higher
19 May 14	Release of Version 1.3-1 for Abaqus/CAE 6.14 and higher

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The attachments on this article are subject to certain usage conditions. Please [click here](#) for details.

KEYWORDS

Dymola, logical, plug, plug-in, customization, script, sensor, mo, actuator, cosimulation, co-simula

ATTACHMENT

- dymola_example_inputfiles.zip
- Abaqus_Dymola_PluginGuide.pdf
- dymola_plugin_614.zip
- dymola_plugin_613_earlier.zip
- dymola_example_inputfiles6.14nLater.zip

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