

Knowledge Base

Information



Abaqus/CAE plug-in to save curve refinement settings

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QUESTION

I have used the part display options to modify the curve refinement of my parts. Is there an option in Abaqus/CAE to save the settings so they can be loaded in the next session of Abaqus/CAE?

ANSWER

(The following applies to Version 6.7 and higher)

An Abaqus/CAE plug-in application for this purpose is attached below. The plug-in saves the current curve refinement settings of the model to XML format and allows you to import this XML object in a later session.

Installation

Important: The latest XML core module must be installed before this plug-in can be used. Please refer to Answer [Abaqus/CAE plug-in for XML-based save and import of session-specific settings](#) for details about obtaining and installing the XML core module.

When the XML core module is installed, one of the following directories is created:

`abaqus_dir\abaqus_plugins\caeXML` where `abaqus_dir` is the Abaqus parent directory

`home_dir\abaqus_plugins\caeXML` where `home_dir` is your home directory

`current_dir\abaqus_plugins\caeXML` where `current_dir` is the current directory

Save the attached archive file in the `caeXML` directory where the XML core files have been saved.

On Windows platforms, right click on the archive file and select **WinZip** → **Extract to here**. On Linux platforms, type **unzip curveRefinement.zip** at the command prompt. A folder named `curveRefinement` containing three files will be extracted. Note that the plug-in will not function properly if this procedure is not followed.

Usage

1. In the Abaqus/CAE **Part** module select **View** → **Part Display options...** to receive the following dialog:

Curve refinement can be set to 5 different levels: **Extra Coarse**, **Coarse**, **Medium**, **Fine** and **Extra Fine**. Set the desired refinement level for each part.

2. From the **Part** module, select **Plug-ins** → **Tools** → **Export/Import Manager...** to receive the following dialog:

3. In the **File name:** field enter the name of the file where the settings will be exported. If the file does not exist, it will be created in the directory from which you launched Abaqus/CAE. If you wish to save the settings in the current model database then select the **MDB** radio button. Or if you wish to save the settings in any currently open output database then select the **ODB** option and choose appropriate ODB from the combo box.

4. Select **Export** to receive the following dialog:

5. Enter a name for this record in the **Record name:** field. For details on records, please see Answer [Abaqus/CAE plug-in for XML-based save and import of session-specific settings](#).

6. Press **OK** to export. The curve refinement settings for each part in each of the models found in the database will be exported.

7. To load previous settings, first open the model database or the output database for which the settings were created if the information was saved to an **MDB** or **ODB** database, respectively.

If settings were previously saved to an XML file, load the appropriate XML file. Then select a record that has been previously created by the **Curve Refinement** plug-in, as shown in following dialog:

8. Select **Import**. Note that while importing settings in Abaqus/CAE, the plug-in will overwrite all existing settings for any model/part combination found in the current session that has the same name as in the XML file.

Notes

The XML schema used when storing object information may change in future releases of Abaqus/CAE. Thus, future versions of this plug-in may not be able to import XML files created from previous versions.

Disclaimer

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

KEYWORDS

save, view, plug-in, persistent, load, import, export, display, xml, curve, refinement, part, settin

ATTACHMENT

[answer_3662_fig1.png](#)

[curverefinement.zip](#)

[answer_3662_fig1.png](#)

[answer_3662_fig4.png](#)

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