

Knowledge Base

Information



Abaqus/CAE plug-in utility to change curve refinement setting for all parts in a model

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QUESTION

Is there any way in Abaqus/CAE to set a curve refinement setting to all the parts in the model?

ANSWER

(The following applies to Abaqus/CAE 6.7 and higher)

An Abaqus/CAE plug-in application for this purpose is attached below. The plug-in can be used to set the curve refinement setting of all the parts in the current model.

Installation

To install the plug-in, save the attached archive file to one of the following directories:

abaqus_dir\abaqus_plugins where *abaqus_dir* is the Abaqus parent directory

home_dir\abaqus_plugins where *home_dir* is your home directory

current_dir\abaqus_plugins where *current_dir* is the current directory

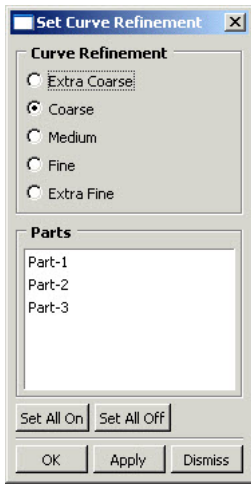
Note that if the abaqus_plugins directory does not exist in the desired path, it must be created. The *plugin_dir* directory can also be used, where *plugin_dir* is a directory specified in the abaqus_v6.env file by the environment variable **plugin_central_dir**. You can store plug-ins in a central location that can be accessed by all users at your site if the directory to which **plugin_central_dir** refers is mounted on a file system that all users can access. For example,

```
plugin_central_dir = r'\\fileServer\sharedDirectory'
```

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

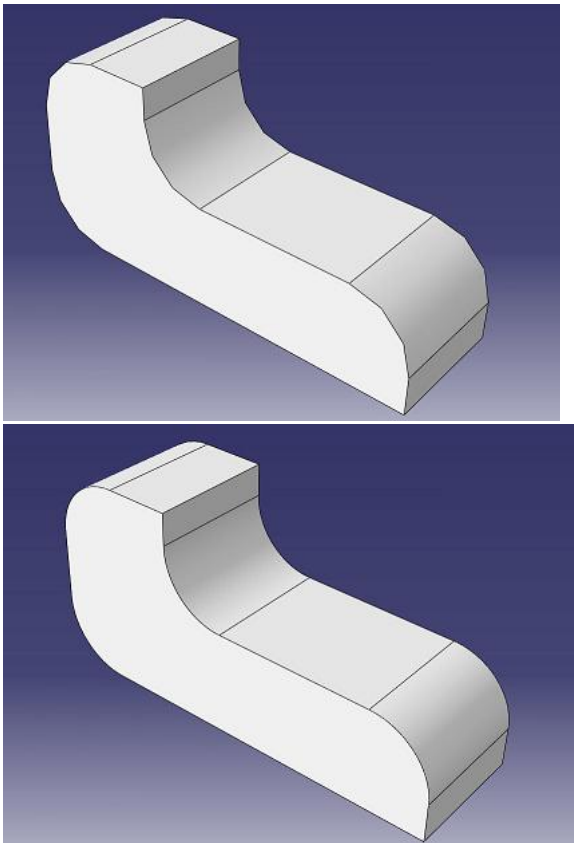
Usage

1. From the **Part** or **Assembly** modules, select **Plug-ins** → **Tools** → **Set Curve Refinement** to open the following dialog:



- The plug-in will automatically list all the parts in the current model.
2. Select the parts for which you wish to apply a particular curve refinement.
3. In the **Curve Refinement** panel, select the desired refinement setting.
4. Select **OK** or **Apply** to apply the curve refinement setting. The figure below shows the curve refinement for a particular part after being changed from "Extra Coarse" to "Extra Fine".

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5. The **Set All On** and **Set All Off** buttons can be used for selecting or deselecting all the listed parts.

Disclaimer

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

Revision History

12 Dec 09	Release 1.1-1
09 Mar 11	Release 1.1-2. Add assembly regeneration.

KEYWORDS **plug-in, plugin, 4338**

ATTACHMENT [answer_4338_fig2.jpg](#) [answer_4338_fig1.jpg](#) [answer_4338_fig3.jpg](#) [SetCurveRefinement.zip](#)

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