

# Knowledge Base

## Information



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

**Portfolio / Domain:** SIMULIA Abaqus Unified FEA / SIMULIA Abaqus Unified FEA  
**Product:** SIMULIA Abaqus/CAE

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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

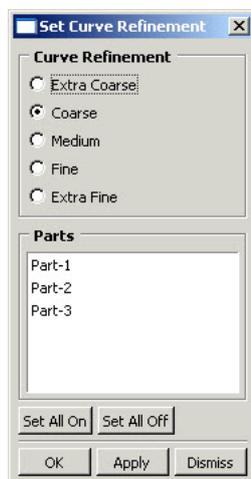
Note that if the abaqus\_plugins directory does not exist in the desired path, it must be created. The *plugin\_dir* directory can also be used, where *plugin\_dir* is a directory specified in the abaqus\_v6.env file by the environment variable **plugin\_central\_dir**. You can store plug-ins in a central 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'
```

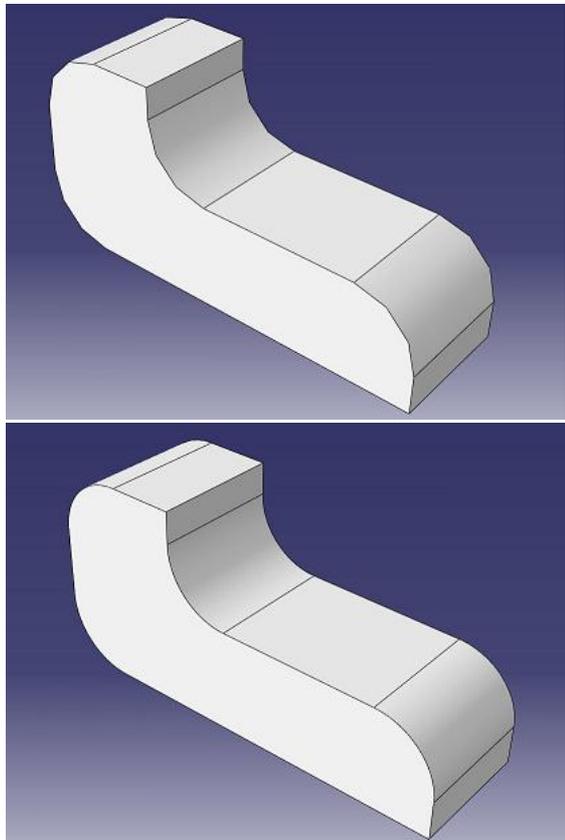
On Windows platforms, right click on the archive file and select **WinZip** → **Extract to here**. On Linux platforms, type **unzip SetCurveRefinement.zip** at the command prompt. A file named curveRefinement\_plugin.py and a folder named curveRefinement will be extracted. Note that the plug-in will 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:



2. The plug-in will automatically list all the parts in the current model.
3. Select the parts for which you wish to apply a particular curve refinement.
4. In the **Curve Refinement** panel, select the desired refinement setting.
5. 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".



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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