

Knowledge Base

Information

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Abaqus/CAE plug-in to save X-Y data

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

QUESTION

I have created a number of X-Y data sets in the current Abaqus/Viewer session. Is there an option to save them so they can be loaded in the next session of Abaqus/Viewer?

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 saves X-Y data information into XML format and then allows you to import it back 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 files 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 xyData.zip** at the command prompt. A folder, named *xyData*, and sub-folders will be extracted. Note that the plug-in will not function properly if this procedure is not followed.

Usage

1. In the Visualization module of Abaqus/CAE or in Abaqus/Viewer, create your X-Y data as desired.
2. From any module, select **Plug-ins** → **Export/Import XML...** to receive the following dialog:



3.

In the **File name:** field enter the name of the file where the definitions 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 definitions in the current model database then select the **MDB** radio button. Or if you wish to save the definitions 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:



The dialog lists all currently defined X-Y data. Select the X-Y data that you want to export or select **Set All On** if you want all of them to be exported. You can filter out the X-Y data that you do not wish to export by entering a regular expression string in the **Filter** field.

5.

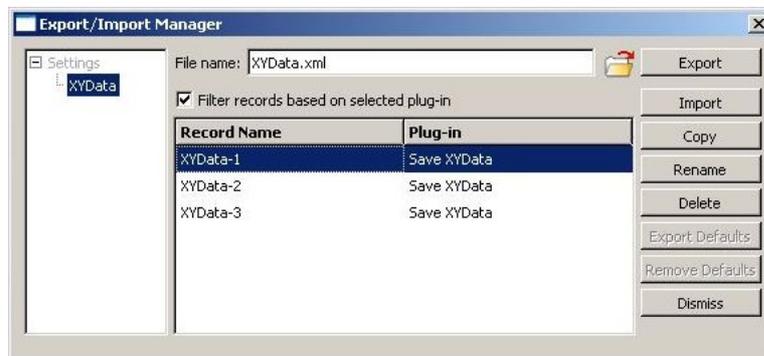
In the above dialog, you may change the record names for the X-Y data that you want to export. For details on records and record names, please see Answer [Abaqus/CAE plug-in for XML-based save and import of session-specific settings](#).

6.

Press **Export** to export.

7.

To load previously saved X-Y data, 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. Then, from any module other than **Sketch**, select **Plug-ins** → **Export/Import Manager...** to receive the following dialog:



8.

Select the appropriate XML file and then select the record(s) that have been previously created by the X-Y data plug-in. Select **Import**. This will invoke the following dialog:



9.

You can change the X-Y data names as appropriate and then press the **Import** button. Note that while importing in Abaqus/CAE, the plug-in may prompt you to overwrite existing X-Y data definitions if the same X-Y data name is found in the current session.

Disclaimer

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

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.

KEYWORDS

save, XYData, plug-in, persistent, load, import, export, display, xml, file, translate,, 3835

ATTACHMENT

Answer_3835_Fig3.jpg	Answer_3835_Fig2.jpg	Answer_3835_Fig1.jpg	xyData.zip
Answer_3835_Fig4.jpg			

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