

Example of automatically exporting Scenes and Plots to a PowerPoint PPT presentation

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Attachments:  [car_test.sim](#) (4 MB)  [JarFilesPOI3.15ForBasicPPT.zip](#) (3 MB)  [ScenesAndPlotsToPPT.java](#) (7 KB)

This is something that can be done using a Java macro, calling the APACHE POI libraries for handling the input/output towards Microsoft Documents (<https://poi.apache.org/index.html>). There is no need to have a licensed installation of Microsoft Office to use the libraries.

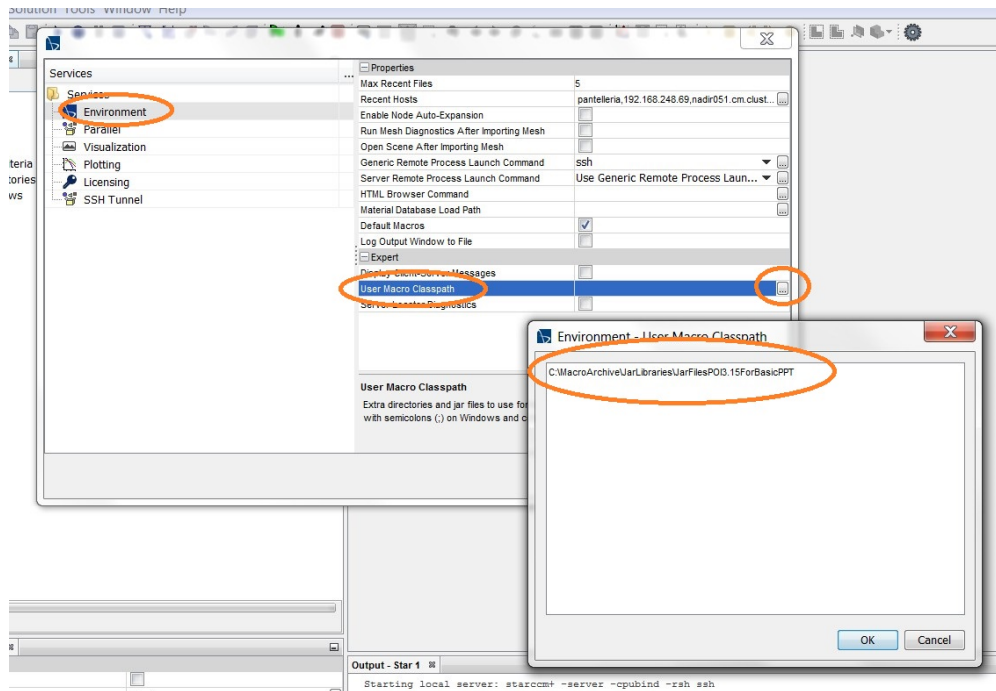
Attached to this article, is an example of a STAR-CCM+ macro that automatically creates a presentation called "slideshow.ppt" containing a title slide with the Simulation name, and one slide per each Scene and Plot of the current Simulation. By acting on the basic parameters that are defined in the first lines of the macro class, it is possible to customize the output file name, the choice of whether to include all Scenes and Plots or only the scenes and plot containing a particular filter text, plus a number of other customizations for the heights and widths of the presentation page and hardcopied images.

In order for the macro to work, the APACHE POI libraries must be properly linked to STAR-CCM+ using the. User Classpath. The following procedure illustrates how to set up STAR-CCM+ and test the macro functionality:

- Download the attached archive "JarFilesPOI3.15ForBasicPPT.zip", and extract it on a safe folder for storage in your hard drive. It contains two .jar files with the required libraries. For example, those two files could be located in the following PATH:

C:\MarcoArchive\JarLibraries\JarFilesPOI3.15ForBasicPPT

- Download the attached sim file "car_test.sim" and the macro "ScenesAndPlotsToPPT.java", and place both of them in a temporary test folder.
- In the top menu of STAR-CCM+, select Tools > Options.
- Click on the Service "Environment" in the left, then edit the "User Macro ClassPath" Expert property on the right, clicking on the right button with the three dots.



- Enter the absolute path of the folder containing the two unzipped jar files, for example:
- C:\MacroArchive\JarLibraries\JarFilesPOI3.15ForBasicPPT
In case you need more than one path, consider that the separator is ";" in Windows and ":" in Linux.
- Click OK and Close.
- Now open the attached example file "car_test.sim" and play the macro "ScenesAndPlotsToPPT.java". A new ppt file called "slideshow.ppt" is generated, in the same folder (as the java macro).

The example sim file attached is a demonstration and not an endorsement of a best practice. It is provided to showcase the use of simulation features in a given application. Open the file in a software version equal to or newer than the one specified in the Version Applicable field.

See also

[Example of automatically exporting the current Scene into a specific PPTx Master Layout](#)

[How do I add the STAR-CCM+ API and JavaDoc to a Java Class Library in NetBeans?](#)

[What is a Deprecated class or method?](#)

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