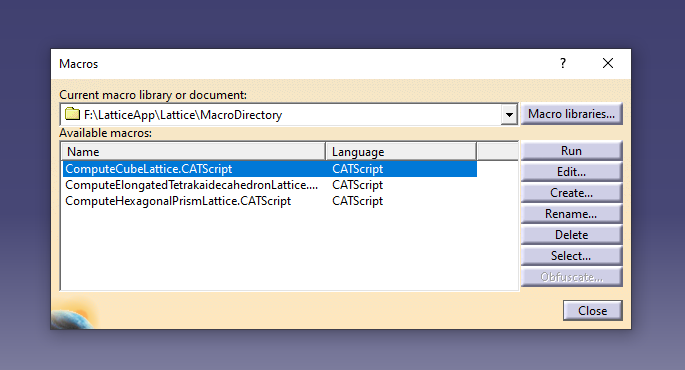
**File Setup (MATLAB 2020b and CATIA V5-6R2017**

The following instructions detail the process to be carried out when transferring the lattice structure modelling files to a new location.

1. Open CATIA.
2. From the menu bar, go to *Tools* 🡪 *Macro* 🡪 *Macros…* 🡪 *Macro libraries…* 🡪 *Add existing library…(Select Library Type Directories in drop down)*
3. Go to Folder *Lattice* and select *Macro Directory.*
4. Close *Macro libraries.*
5. You will now see three CATScript files within the new location’s macro directory.



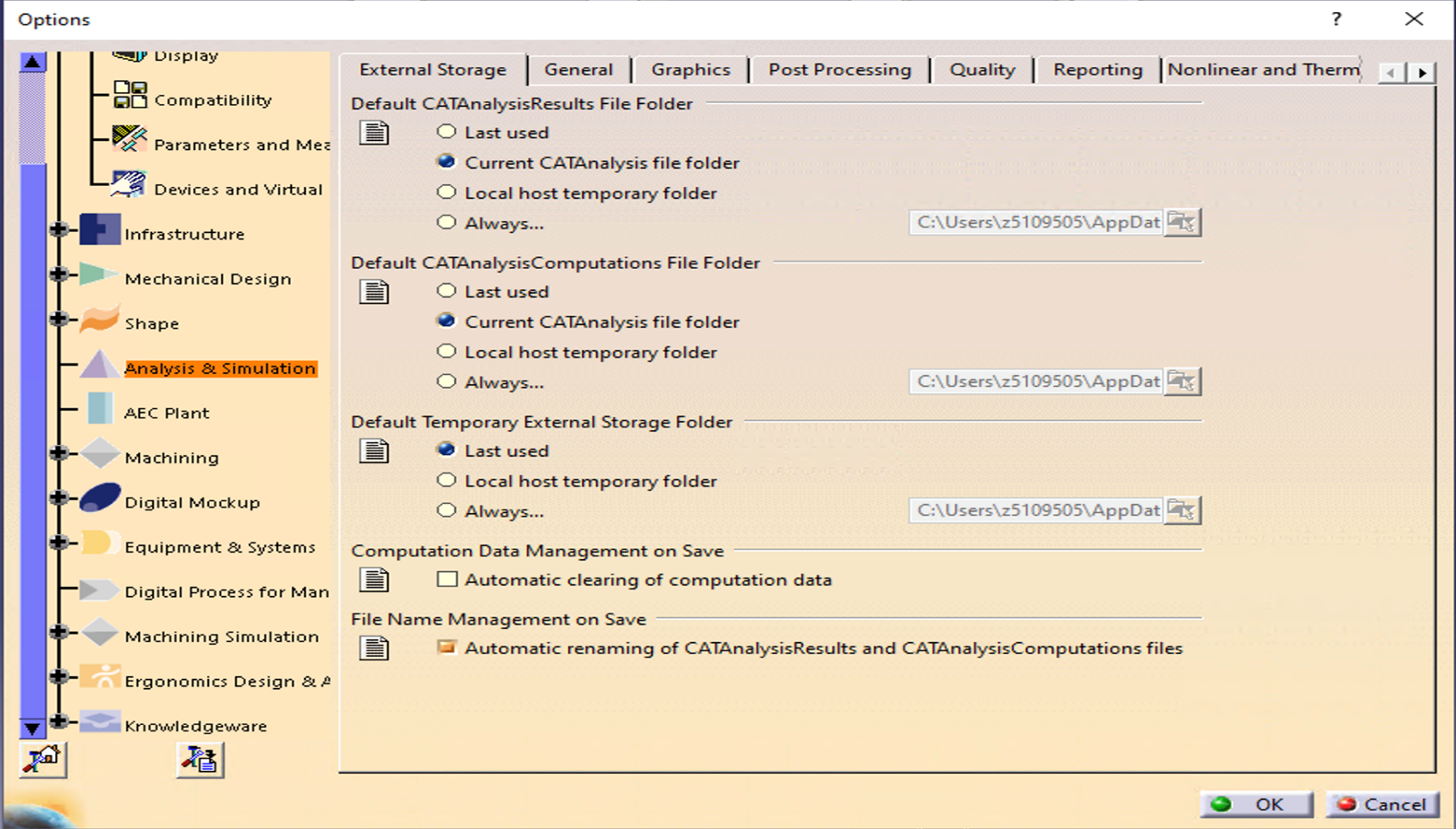
1. Two file paths in each of these scripts will need to be changed. Double click on a script to edit it. Before editing (using the cube concept as an example), the file paths will appear in the following lines of code:

*Set analysisDocument1 = documents1.Open("E:\LatticeApp\Lattice\Cube Lattice Analysis.CATAnalysis")*

*Set folder1 = fileSystem1.GetFolder("E:\LatticeApp \Lattice")*

Only the highlighted parts in the example shown above are required to be changed to reflect the new save location. Do not edit any other part of the scripts. Close the *Macros* interface.

1. From the menu bar, go to *Tools* 🡪 *Options* 🡪 *Analysis & Simulation,* and ensure the following settings are selected:

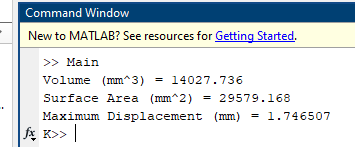


1. Close CATIA and you should be ready to run the script

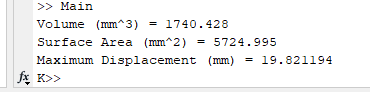
**Running to ensure the setup is correct.**

1. Run Main.m

If concept is set to 3, Line(13 in Main.m, you should get the following if you leave all other lister parameters unchanged in Main.m



If concept is 1, you should get the following



If concept is 2, you would get

