CMB Modelbuilder Install Instructions for macOS

The CMB modelbuilder application can be used to create Truchas input files from data entered in form-style attribute panels.

Install

Note: As of July 2020, the modelbuilder-truchas-macOS-*.dmg package files are built with macOS 10.14 (Mojave) and will not run on older systems.

After opening the dmg, the macOS Finder should display a panel with 3 folders. Drag the "modelbuilder 6.x.x" and "Workflow" folders to the Desktop or some other location on your file system as preferred. After the folders are copied, you can close ("Eject") the dmg.

Run

From the macOS Finder, open the "modelbuilder 6.x.x" folder to show the "modelbuilder.app" application. Because the app is not signed, macOS might not give you permission to run the app by double-clicking "modelbuilder.app". If that occurs, right-click on "modelbuilder.app" and select the "Open" menu item. In response, macOS should display a pop-up window where you can chose to open the application. Once you do that, you can then double-click the application to start in the future.

On certain macOS machines, the very first time you run modelbuilder will will fail and instead display an error window. The underlying cause is not currently known, however, the application will start on a second try.

Plugin Setup

The first time you run modelbuilder, the plugins used for Truchas might not be loaded by default. Use these steps to update the application to auto-load two plugins: smtkProjectManagerPlugin and smtkTruchasPlugin.

- In the "Tools" menu, select "Manager Plugins...", which brings up a dialog with two panels labeled "Remote Plugins" (which should be empty) and "Local PLugins".
- In the "Local Plugins" panel, look in the list for "smtkProjectManagerPlugin" and expand it by clicking the arrow to its left. In the expanded section, check the box labeled "Auto Load".
- In the same way, look in the list for "smtkTruchasPlugin" and expand it by clicking the arrow to its left. In the expanded section, check the box labeled "Auto Load".
- Close the panel, then close the application and restart. On restart, the "Project" menu should now be visible.

Settings Setup

Before using modelbuilder to create and use Truchas projects, you also need to set one item in the application preferences that specifies the locations of the Workflows folders:

- From the application's "modelbuilder" menu, select the "Preferences..." item to open the "Settings" dialog.
- In the dialog, select the tab labeled "Sim Pre-processing".
- Near the bottom of the tab is an item labeled "Workflows Folder". Set this to the "Workflows/Truchas" folder that you copied onto your system from the dmg package.