SimBreakpoint Tool

This tool will be helpful for setting conditional break point in a given model for debugging purpose. model for debugging purpose.

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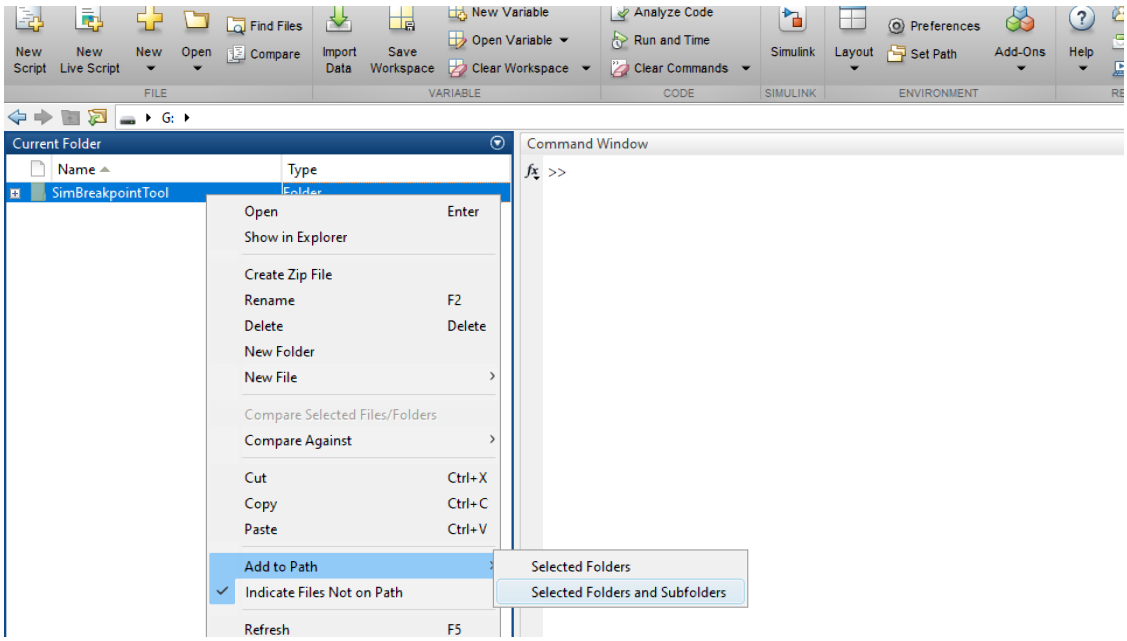
Version: 1.0 - Initial Version.

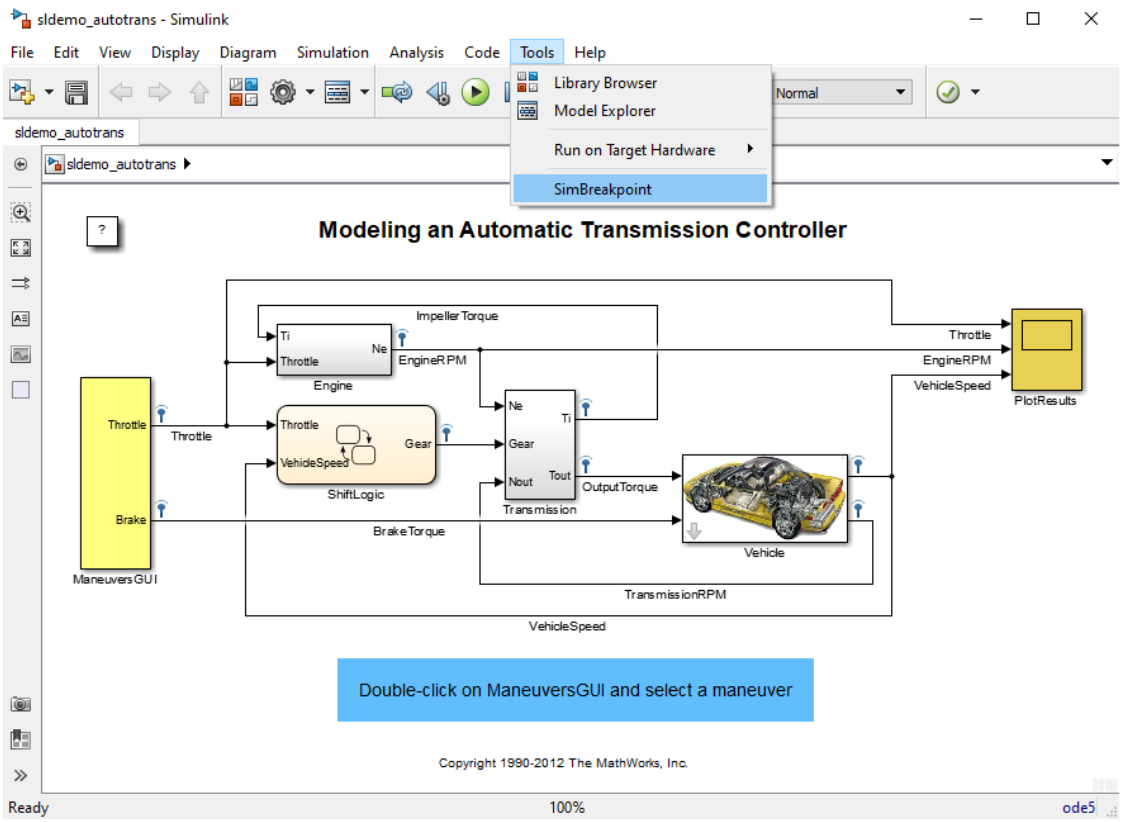
Steps to use this tool

- Download and move the files into the required path and add it to MATLAB path

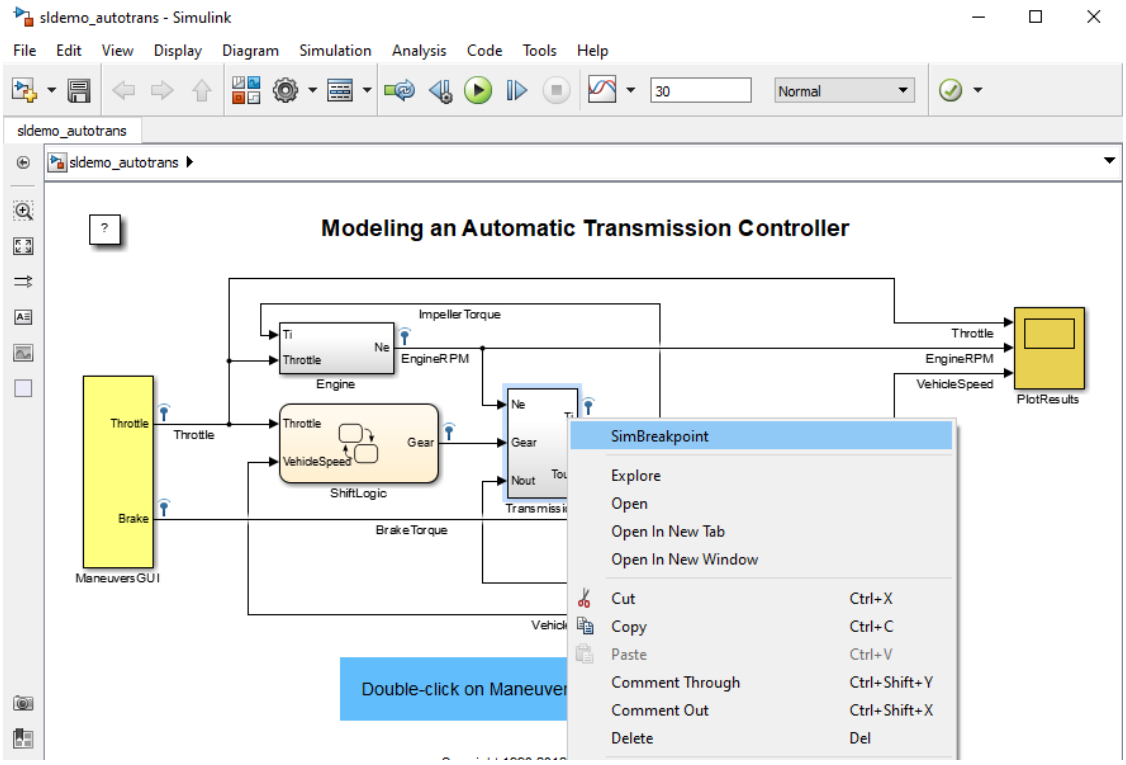


- Open the Simulink model that has to be debugged.

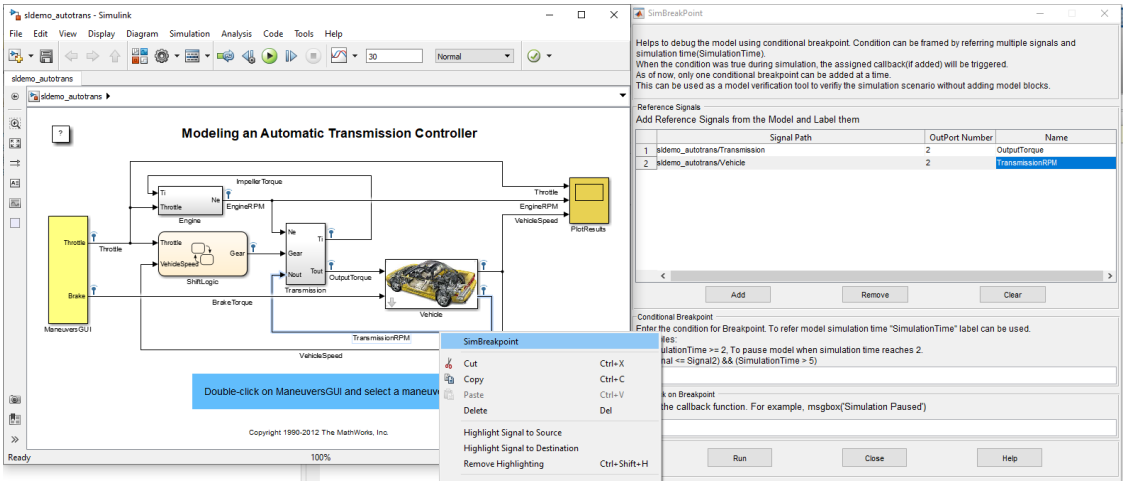
- Ensure that in Simulink Tools menu has a menu item 'SimBreakpoint' is present. If not, run the command ">> sl_refresh_customizations" in the MATLAB command window



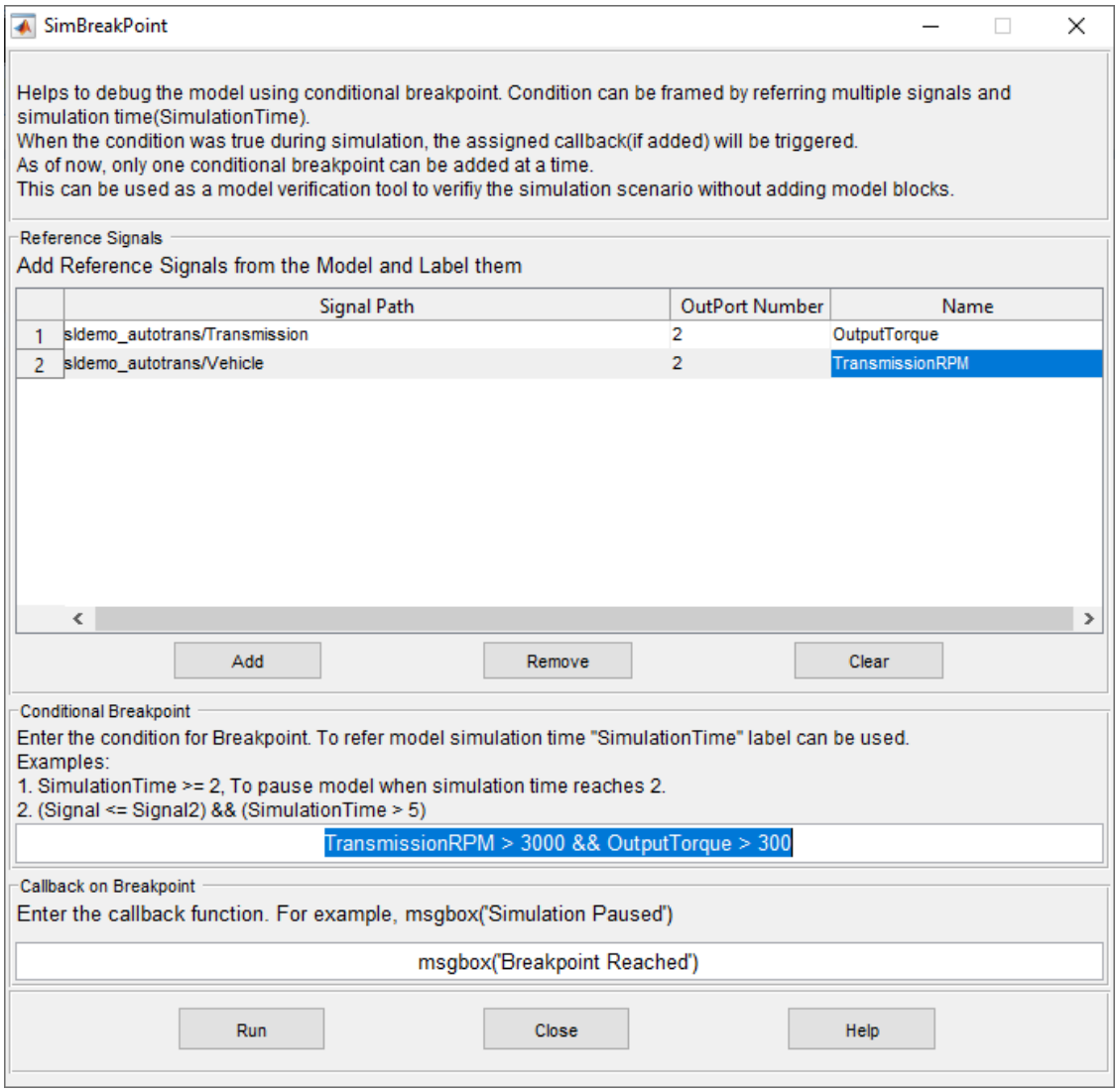
- SimBreakpoint tool can be launched from Tools/SimBreakpoint menu or from the model context menu.



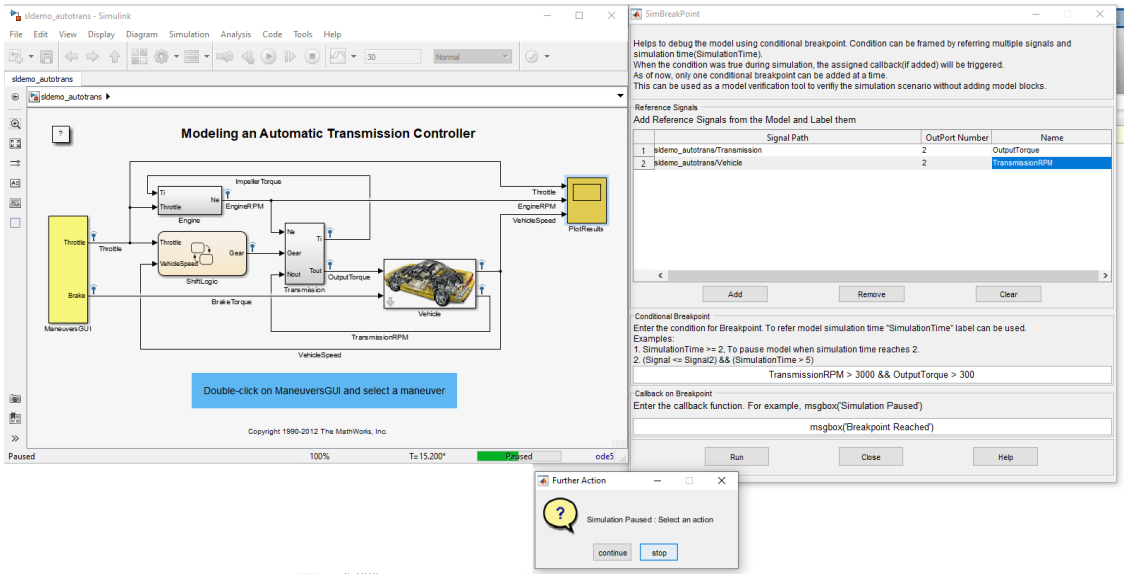
- Select the signal and add it to the GUI(Reference Signals Panel). User have to give a unique signal label for every entry.



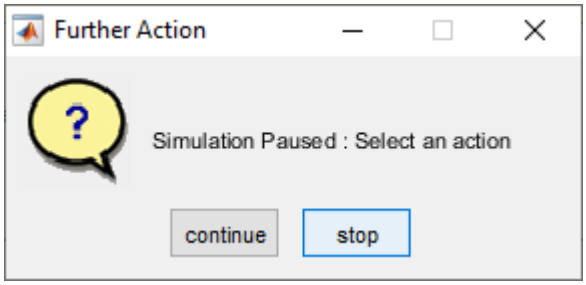
- Enter the breakpoint condition (Example : SimulationTime == 1 && signalA < signalB). signalA and signalB should present in the Reference Signals Panel. SimulationTime will refer the model simulation time.



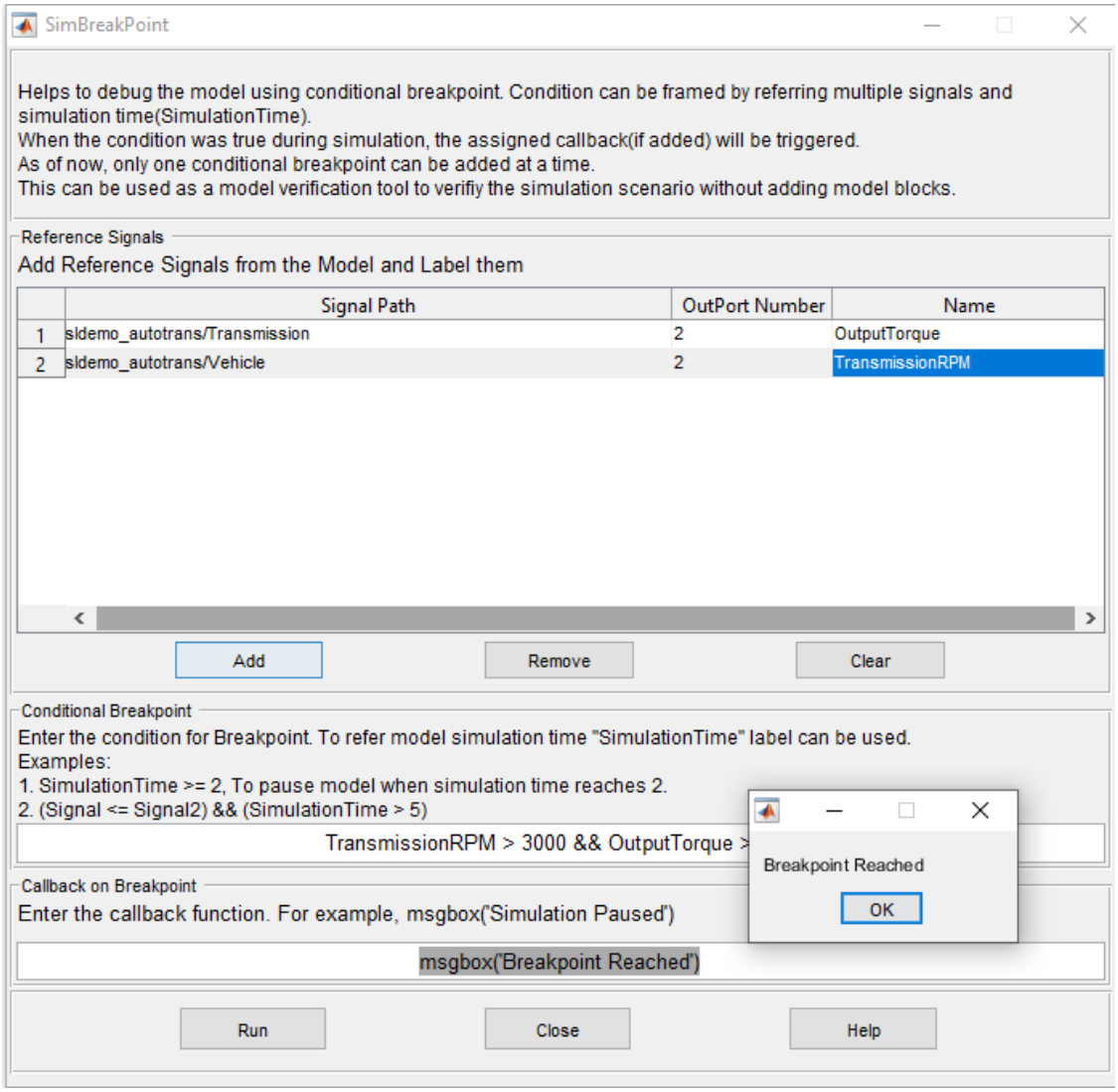
- Use "Run" button to initiate simulation in the custom debugging model.
- The breakpoint condition will be evaluated during every timestep. If it is true then the simulation will be paused for the user to explore the model.



- Either user can stop the simulation or continue the simulation with the breakpoint condition.



- Optional: User can add a callback function which will be evaluated when the breakpoint scenario happens.



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