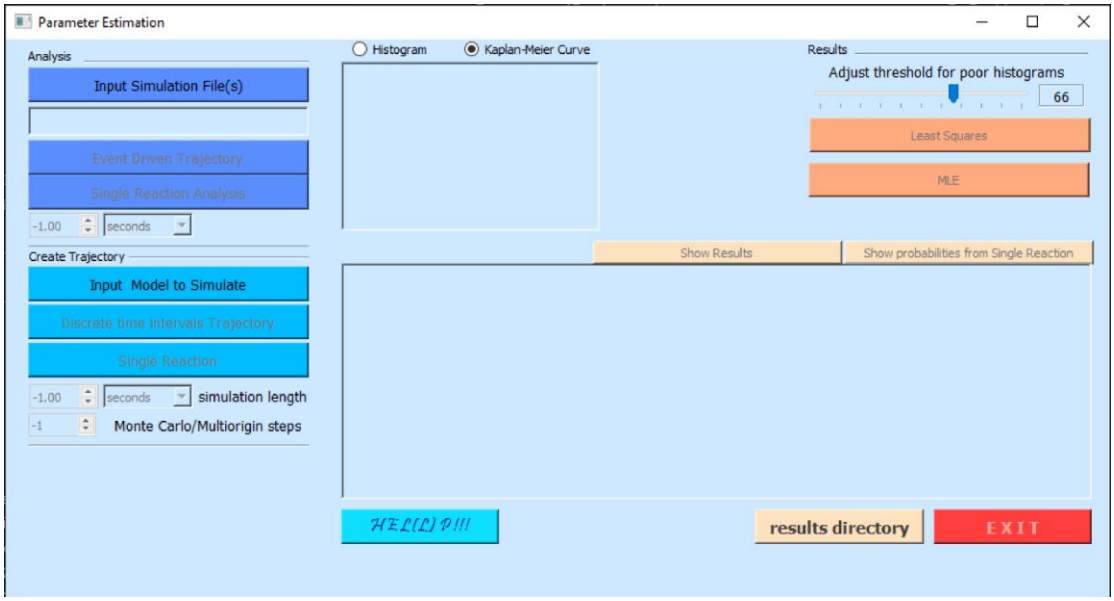


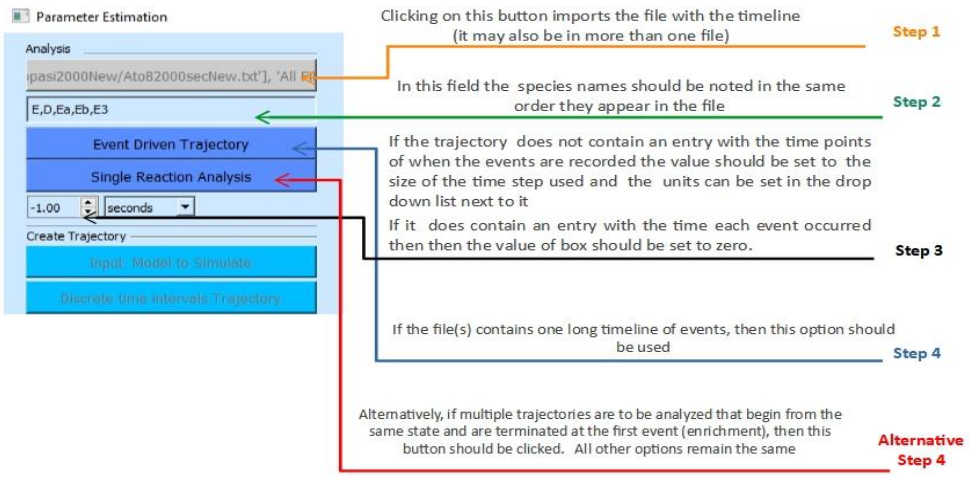
The tool Interface consists of three areas:

- On the left is the area with the blue buttons that analyze a timeline of events created using other external tools and underneath are
- The cyan buttons that are used to create a timeline of events using Tellurium by just uploading the reacting system written in the scripting language Antimony and then analyzing it.
- The remaining area is for visualizing the results.

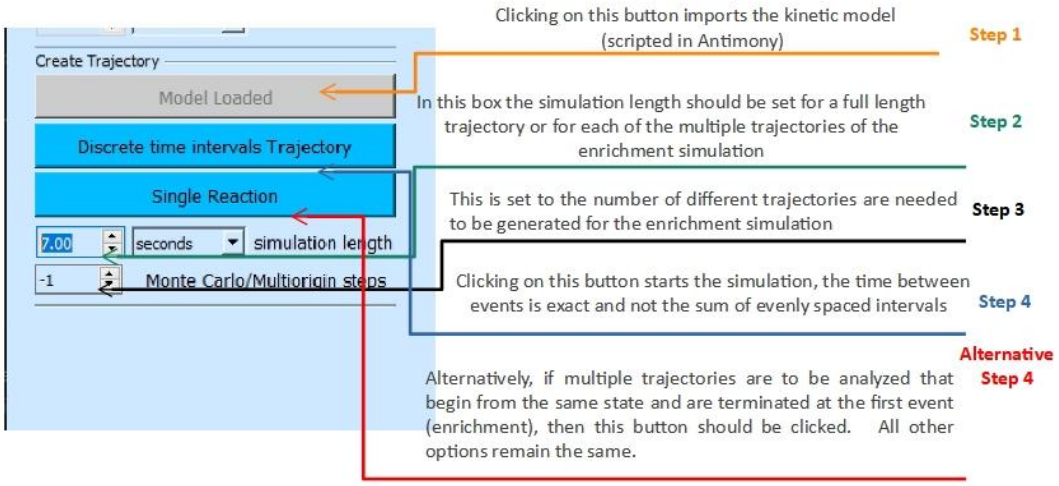
By placing the mouse over a button without clicking, a tip for the button's function appears.

To begin analyzing a timeline created externally it should be in the following format, each line should contain the number of each species as it was recorded at that time point separated by a comma, a tab or a semicolon. It could also contain, but not necessarily, the time points the events occurred as the first entry of each line.

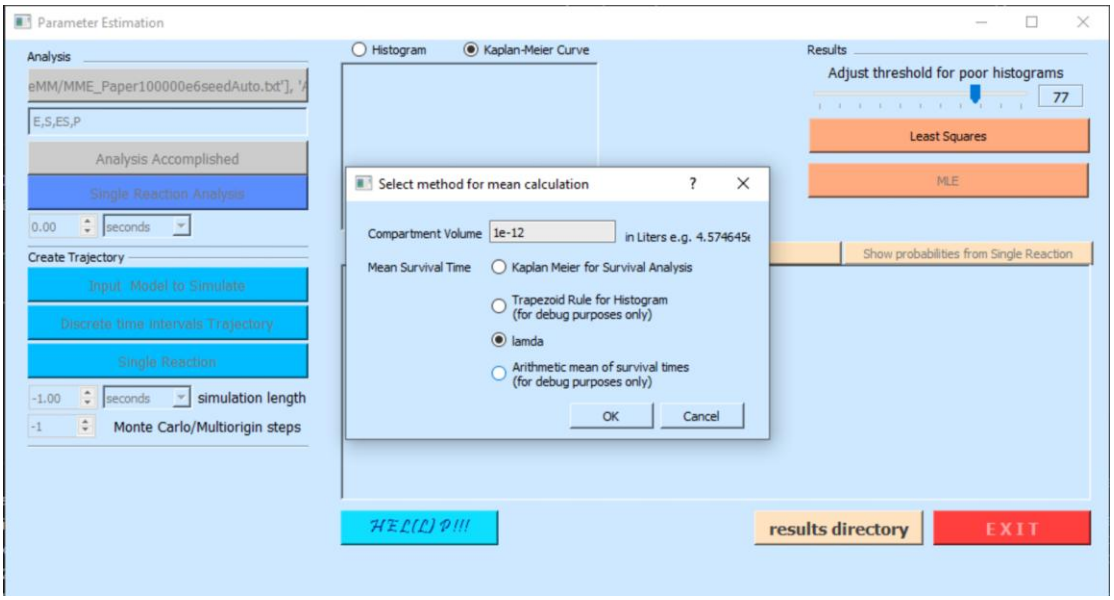
The steps needed to analyze a trajectory of events are shown in the following picture:



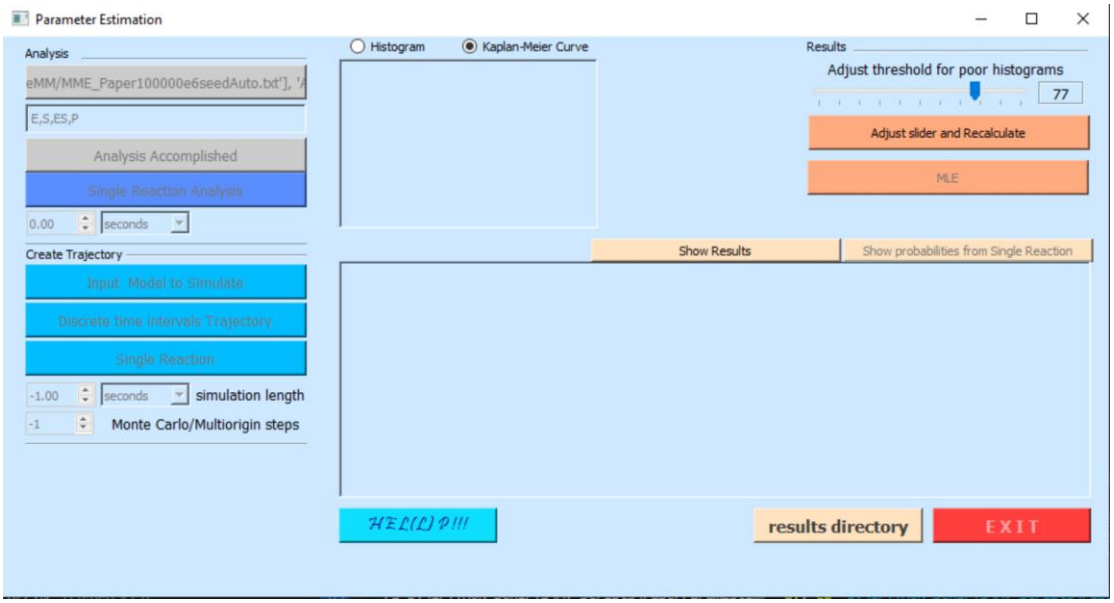
A similar pattern is followed when utilizing a simulation using the embedded features of Tellurium. It must be noted that the output of this section has the time intervals between events calculated exactly, contrary to the calculation on the previous step that it may also calculate the time intervals between events as the sum of the time points between two subsequent events.



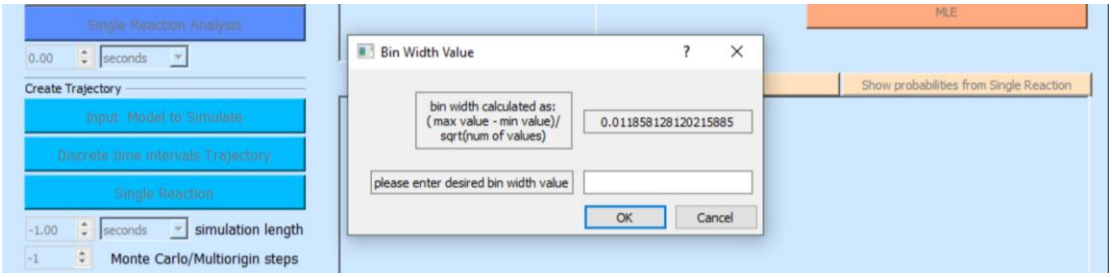
At some point this popup window appears and to continue the compartment volume of the simulation should be filled in Liters. A second action that should be taken is to check the lamda button if it is not already checked, this selects the method of calculation of the mean time the systems spend in each state. The other optios are only for debugging purposes and the results they render are not to be taken under account.



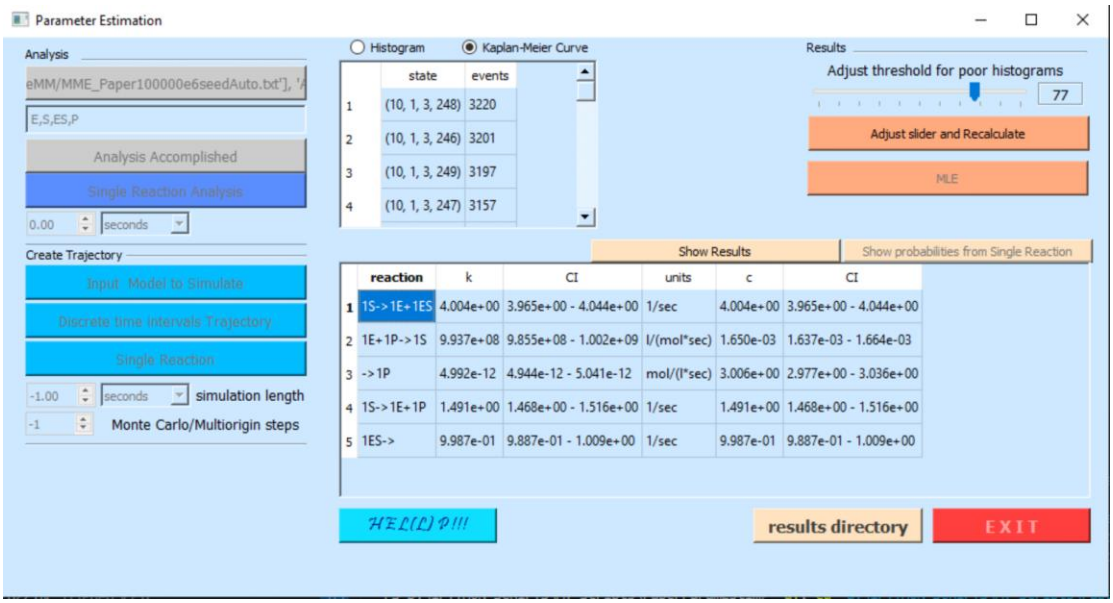
The third part which dispalys the results has the following features:



When the timeline analysis is finished he button changes to grey colour and the orange button on the right is activated. To proceed, the slider that sets the threshold cut off should be adjusted (preferably to 20). Then the button Adjust slider should be clicked. This popup window will appear, no action is required because its function is related to debugging purposes. Clicking OK is all that is needed to proceed.



After that the *"show results"* button is active and by clicking it the results are displayed in the box as it is shown in the following picture



On the top appears a table with the states the system has visited on the first column and the number of times the system was in that state on the second column. One final feature that is available only in the options for the enrichment simulations is available. It is accessed through the yellow button "*Show probabilities from Single Reaction"* and after the enrichment simulation is analyzed it displays the probability to go to each state after one reaction from the state it originates.