Quick user's guide

This guide summarizes the basic steps to begin working with Simula3MS.

- 1.- When Simula3MS is executed, an editor window appears, that allows:
 - the load of a previously edited file
 - the edition of a new assemble language code
- 2.- Once the code is edited (or loaded), use the *Assemble* button. Two results are possible:
 - If the code does not have any syntactic errors, the *Execute* button becomes enabled to give access to the simulation.
 - In case the code is not correct, a list with all the errors will appear at the bottom of the window. The first error is highlighted. Next errors can be found using *Next error* button. When all these errors have been corrected, repeat step 2.
- 3.-Choose a configuration to execute the code. There are three possible options in the *Configuration* menu: *Input/Output*, *Datapath* and *Branch techniques*.
 - *Input/Output*. The I/O is by default deactivated. To simulate I/O choose *Polling* or *Input/Output with Interrupts*.
 - Datapath. The selected option by default is the Monocycle datapath. Selecting
 Multicycle or any implementation of the Pipeline processor, a new window
 will be opened, allowing to configure the latency of the floating point
 operations.
 - Branch techniques. Currently Simula3MS allows the selection two branch techniques: Delayed branch and Fixed branch prediction. Both of them appear deactivated by default and the selection of any of these techniques forces the basic pipeline.
- 4.- Use the *Execute* button to access to the simulation window. In this window, the final result of the complete program execution is shown (using the *Execute* button), or the evolution of each instruction in each cycle can be observed (using the *Next cycle* and *Previous cycle* buttons).