

SCICOS-HIL

Scicos Hardware In the Loop

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If you find some blocks pages or discuss some parts of this document and are not yet completed, we plan to release an updated version soon and keep the documentation aligned with the code. Scicos-III is a full open source project, please help us to improve the documentation quality setting this file and send it back to etienne.roubert@telecom-paris.fr

An Introduction to Scicos

Writing the simulation of an hybrid dynamical system as scripts, using the powerful functions of the Scicos language is possible (1), but it is time consuming and it is very easy to insert bugs during the manual coding. To simplify this task, Scicos includes Scicos GUI a graphical hybrid dynamical system editor and compilation toolset. Scicos is used for applications in control systems, communication, signal processing, operating systems, and to study physical and biological systems. Scicos allows graphical editor if it is possible to place, configure and connect blocks, to order to create diagrams to model hybrid dynamical systems, and simulate them.

Most of the Scicos graphical user interface is written in Scilab language. For complete integration with Scilab, easy construction and automatic flexibility, Scicos is provided as Scilab and available for both windows and linux. To develop Scicos blocks the binary, pre-compiled Fortran-like version is sufficient.

The Scicos blocks internal structure

Each blocks is represented by two functions:

- the interfacing function, written in Scilab language, it defines the graphical representation, the input, output and control ports, signals and the user configurable parameters.
- the computational function: the real code used during the simulation. The computational function can be written in Scilab language, for easy development, or in C, for maximum efficiency and speed. Further to

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