

VOIDSIM

By Void Yazilimevi

Developer's Guide

29/05/2006
METU

Getting Started

This guide will tell you how you can extend VoidSim, by simply showing you the right way to use the JavaDoc supplied by the developer team.

The VoidSim project is developed in Java, so object oriented approach is used mainly. So the classes and packages are well organized that you will not have difficulties in finding out where to change.

Below are listed the places you should look , when you would like to make a change.

- The component/wire operations(add,delete,rotate etc)

Since all the operations in VoidSim are undoable, they are implemented as commands. So you can find the operations as AddComponent, MoveComponent, Copy etc. In undoable commands package which is under commands package.

- The behaviour of components/ The view of components

If you want to change something about a specific component, and it is only about the drawing of it, you can use view package under components, otherwise you can look at model package.

- The way of interaction between interface and background for simulation

The design package has the most significant role in the project. It has the class CircuitController which makes all the communication between interface and all others. A hashtable is used for the interaction, (GridNode and NodeTable classes). The Project/Master Circuit and Circuit classes are hierarchical in the order of Project-MasterCircuit-Circuit. The classes for copy/paste/cut are also here.

- The simulation

Simulation package is responsible for the real time simulation of the project. This package uses JHDL (which is the library used for all the components and simulation) mostly. And if something wrong with JHDL, here is the solution.

- The interface of the program

User interface package is used for the GUI. All the actions, menus, bars are implemented here. Moreover, the area you design your circuit (WorkingArea), the file you used for scripting are all implemented here. The main class of the project VoidSim.java is also here.

Feel free to contact us for more information through voidyazilimevi@gmail.com.