

Xcos Automatic Layout

Xcos

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1 Overview

1.1 Relative Packages

`org.scilab.modules.xcos.block`
`org.scilab.modules.xcos.graph`
`org.scilab.modules.xcos.link`
`org.scilab.modules.xcos.port`

1.2 Detailed Class

`org.scilab.modules.xcos.port.BasicPort`

This is an abstract Port which is used for any kinds of ports including input and output ports.

`org.scilab.modules.xcos.port.Orientation`

This is an enum which represents a port orientation related to the associated block.

`org.scilab.modules.xcos.block.SplitBlock`

This is a node extends Block which is used for a junction of links.

`org.scilab.modules.xcos.link.actions.StyleAction`

This sub-sub-sub class of AbstractAction is a base action which is used for changing the style of links.

2 Implementation

2.1 Common Files

These file should be modified:

CHANGES_5.6.X

modules/xcos/locales/xcos.pot

modules/xcos/help/en_US/xcos_menu_entries.xml

modules/xcos/help/gui/xcos_menu_entries/en_US/xcos_menu_format_link_style.png

2.2 Smart Routing

2.2.1 Design

2.2.2 Relative Files

Create:

org.scilab.modules.xcos.link.actions.StyleOptimalAction.java

org.scilab.modules.xcos.utils.XcosRoute.jav

Modify:

org.scilab.modules.xcos.XcosTab.java

org.scilab.modules.xcos.link.BasicLink.java

org.scilab.modules.xcos.link.actions.StyleAction.java

org.scilab.modules.xcos.utils.XcosMessages.java

2.3 Automatic Layout