EywWeek 2010 Catalog Documetation

February 9, 2010

1 Overview

This is the documentation of the blocks developed during the EyesWek 2010 at Casa Paganini, Genova.

2 Day 1

During Day 1, block Vector was developed. The aim of the block is to store an array of datatypes, with random read and write access. The block is a generic one, i.e., it can deal with generic EyesWeb datatypes. Since generic datatypes are not directly supported by the wizard, the wizard-generated code was hacked a little.

2.1 Vector

bitmap	
class_name	Vector
catalog_name	EywWeek2010
catalog_id	EywWeek2010
class_id	Vector
authors	Paolo

A block which stores an array of datatypes

Inputs

input

id	input
type	Kernel, Generic datatype
type_id	kernel, generic_datatype
required	required_for_initialization required_for_execution
read_only/read_write	read_write
referred as inplace	*no*
referred as inherited	output

Input

Outputs

output

id	output
type	Kernel, Generic datatype
type_id	kernel, generic_datatype
inplace_id	input
inherited_id	*no*

Output

Parameters

size

id	size
type	Kernel, Int datatype (Kernel Catalog).
type_id	kernel, int
domain	[1, +infinity)

The size of the internal array

reset

id	reset
type	Kernel, Trigger datatype (Kernel Catalog).
type_id	kernel, trigger

A command to clear all internal datatypes

enable_read

id	enable_read
type	Kernel, Bool datatype (Kernel Catalog).
type_id	kernel, bool

Specifies whether reading (i.e., copying to output) is enabled

read_position

id	read_position
type	Kernel, Int datatype (Kernel Catalog).
type_id	kernel, int

The position in the internal array of the datatype copied to the output pin

enable_write

id	enable_write
type	Kernel, Bool datatype (Kernel Catalog).
type_id	kernel, bool

Specifies whether writing is enabled

write_position

id	write_position
type	Kernel, Int datatype (Kernel Catalog).
type_id	kernel, int

Position in the internal array where the input datatype will be copied