General Quadratic Placer

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Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 2

Class Documentation

2.1 coo_matrix Class Reference

Public Member Functions

- void **read_coo_matrix** (const char *fname)
- void **matvec** (const valarray< double > &x, valarray< double > &y)
- void **solve** (const valarray< double > &b, valarray< double > &x)

Public Attributes

- int **n**
- int **nnz**
- valarray< int > **row**
- valarray< int > **col**
- valarray< double > **dat**

The documentation for this class was generated from the following files:

- solver.h
- solver.cpp

2.2 mothercore Class Reference

Public Member Functions

- mothercore ()
- int get_numG ()
- vi get_gateKeys ()
- vd get_gateCoords (int gateNum)
- vi get_gateconnections (int gateNum)
- void **add_gate** (int gateNum, vi listofconnections)
- int get_numP ()
- vi **get_padKeys** ()
- vd **get_padCoords** (int padNum)
- void **add_pad** (int padNum, vd netandlocation)
- int **get_numN** ()
- vi **get_netKeys** ()

- int **get_numNetConns** (int netNum)
- vi **get_netGateConns** (int netNum)
- vi **get_netPadConns** (int netNum)
- void **add_net** (int netNum, int connection, int gateorpad)
- bool **add_location** (vd x, vd y, vi gatekeys, int bound[4])
- vvd **get_locations** (vi gatekeys)
- void **print_all_locations** ()
- void **print_all_pads** ()

2.2.1 Detailed Description

Class which defines an ASIC and its components.

2.2.2 Constructor & Destructor Documentation

2.2.2.1 mothercore::mothercore ( ) [inline]

Constructor of the class 'mothercore'

2.2.3 Member Function Documentation

2.2.3.1 vi mothercore::get_gateconnections (int *gateNum*) [inline]

Helper function to return connections of a gate.

Parameters

gateNum	The gate-number for which coordinates are needed.

Returns

A vector of the net-numbers connected to gate number 'gateNum'.

2.2.3.2 vd mothercore::get_gateCoords (int *gateNum*) [inline]

Helper function to return gate coordinates.

Parameters

gateNum	The gate-number for which coordinates are needed.

See also

get_padCoords()

Returns

The x, y coordinates of the gate number 'gateNum'.

2.2.3.3 vi mothercore::get_gateKeys ( ) [inline]

Helper function to return gate keys.

See also

get_padKeys()
get_netKeys()

Returns

A vector with the gate-number of gates in the ASIC.

2.2.3.4 int mothercore::get_numG ( ) [inline]

Helper function to return the number of gates.

See also

get_numP()
get_numN()

Returns

The number of gates in the ASIC.

2.2.3.5 int mothercore::get_numP ( ) [inline]

Helper function to return the number of pads.

See also

get_numG()
get_numN()

Returns

The number of pads in the ASIC.

The documentation for this class was generated from the following file:

- qplacer.cpp

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