Dual Degree Project

Generated by Doxygen 1.8.11

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This is the introduction.

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Class diffusionfluxinterface

Not all memory is freed when deleting an object of this class.

Class netfluxinterface

Not all memory is freed when deleting an object of this class.

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Class Index

4.1 Class List

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

Chapter 5

File Index

5.1 File List

Here is a list of all documented files with brief descriptions:

Chapter 6

Class Documentation

6.1 diffusionfluxinterface Class Reference

Pretty nice class.

`#include <diffusionfluxinterface.h>`

Public Member Functions

- diffusionfluxinterface (vector< double > &vectorleftminus, vector< double > &vectorleft, vector< double > &vectorright, vector< double > &vectorrightplus, vector< double > &areavectorleft, vector< double > &areavectorright, vector< double > &areavectorrightplus, double volumeleftmins, double volumeleft, double volumeright, double volumerightplus, double deltat)

Public Attributes

- double **diffusionfluxvector** [5]

6.1.1 Detailed Description

Pretty nice class.

This class is used to demonstrate a number of section commands.

Author

John Doe
Jan Doe

Version

4.1a

Date

1990-2011

Precondition

First initialize the system.

Bug Not all memory is freed when deleting an object of this class.

Warning

Improper use can crash your application

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6.1.2 Constructor & Destructor Documentation

6.1.2.1 diffusionfluxinterface::diffusionfluxinterface (vector< double > & *vectorleftminus,* vector< double > & *vectorleft,* vector< double > & *vectorright,* vector< double > & *vectorrightplus,* vector< double > & *areavectorleft,* vector< double > & *areavectorright,* vector< double > & *areavectorrightplus,* double *volumeleftmins,* double *volumeleft,* double *volumeright,* double *volumerightplus,* double *deltat*) [inline]

< Detailed description after the member

< enum value 1

A pure virtual member.

See also

testMe()

Parameters

c1	the first argument.
c2	the second argument.

A list of events:

- mouse events
  1. The distance between (x_1, y_1) and (x_2, y_2) is $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$.
  2. mouse move event
  3. mouse click event
     More info about the click event.

4. mouse double click event

- keyboard events

1. link text
2. key up event

1. link text

More text here.

Table 6.2 Complex table

Column 1	Column 2	Column 3
cell row=1+2,col=1	cell row=1,col=2	cell row=1,col=3
	cell row=2+3,col=2	cell row=2,col=3
cell row=3,col=1		cell row=3+4,col=3
cell row=4,col=1+2		
cell row=5,col=1	cell row=5,col=2+3	
cell row=6+7,col=1+2		cell row=6,col=3
		cell row=7,col=3
cell row=8,col=1	cell row=8,col=2 Inner cell row=1,col=1 / Inner cell row=1,col=2 Inner cell row=2,col=1 / Inner cell row=2,col=2	cell row=8,col=3 • Item 1 • Item 2

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

- diffusionfluxinterface.h

6.2 eulerflux Class Reference

Public Member Functions

- **eulerflux** (vector< double > &vector)

Public Attributes

- double **xeulerflux** [5]
- double **yeulerflux** [5]
- double **zeulerflux** [5]

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

- eulerflux.h

6.3 interface Class Reference

Public Member Functions

- **interface** (vector< double > &vectorleft, vector< double > &vectorright, vector< double > &areavectorinterface, double volumeleft, double volumeright, double deltat)

Public Attributes

- double **densityinterface**
- double **xvelocityinterface**
- double **yvelocityinterface**
- double **zvelocityinterface**
- double **enthalpyinterface**
- double **vectorjumpinterface** [5]
- double **eigenvalue** [5]
- double **eigenvectormatrix** [5][5]
- double **eigenvectormatrixinvers** [5][5]
- double **alphavectorinterface** [5]
- double **muvectorinterface** [5]
- double **Zvectorinterface** [5]
- double **pshivectorinterface** [5]
- double **gvectorinterface** [5]

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

- interface.h

6.4 netfluxinterface Class Reference

Pretty nice class.

`#include <netfluxinterface.h>`

Public Member Functions

- netfluxinterface (vector< double > &vectorleftminus, vector< double > &vectorleft, vector< double > &vectorright, vector< double > &vectorrightplus, vector< double > &areavectorleft, vector< double > &areavectorright, vector< double > &areavectorrightplus, double volumeleftmins, double volumeleft, double volumeright, double volumerightplus, double deltat)

Public Attributes

- double **netflux** [5]

6.4.1 Detailed Description

Pretty nice class.

This class is used to demonstrate a number of section commands.

Author

John Doe
Jan Doe

Version

4.1a

Date

1990-2011

Precondition

First initialize the system.

Bug Not all memory is freed when deleting an object of this class.

Warning

Improper use can crash your application

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6.4.2 Constructor & Destructor Documentation

6.4.2.1 netfluxinterface::netfluxinterface (vector< double > & *vectorleftminus,* vector< double > & *vectorleft,* vector< double > & *vectorright,* vector< double > & *vectorrightplus,* vector< double > & *areavectorleft,* vector< double > & *areavectorright,* vector< double > & *areavectorrightplus,* double *volumeleftmins,* double *volumeleft,* double *volumeright,* double *volumerightplus,* double *deltat*) [inline]

< Detailed description after the member

< [out] docs for input parameter v.

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

- netfluxinterface.h

6.5 Test Class Reference

This is a test class.

6.5.1 Detailed Description

This is a test class.

Some details about the Test class.

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

- eulerflux.h

Chapter 7

File Documentation

7.1 BC.h File Reference

A Documented file.

```
#include "iostream"
#include "math.h"
#include <vector>
```

Include dependency graph for BC.h:

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