Dual Degree Project

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1.1 Introduction

This is the introduction.

1.2 Installation

1.2.1 Step 1: Opening the box

etc...

DDP2

C++ 3D, High Speed, and multiphase fluid flow solver

4 DDP2

Bug List

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.

6 Bug List

Class Index

4.1 Class List

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

	fluxinterface																			
	Pretty nice class							 			 									11
eulerflux								 			 									13
interface								 			 									14
netfluxin																				
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	This is a test clas	s						 			 									15

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File Index

5.1 File List

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

BC.h

	A Documented	file				 					 						 			17
deltat.h						 					 						 			??
diffusio	nfluxinterface.h					 					 						 			??
dt.h						 					 						 			??
eulerflux	x.h					 					 						 			??
grid_div	erging_duct.h					 											 			??
grid_no:	zzle.h					 					 						 			??
interface	e.h					 											 			??
netfluxi	nterface.h					 					 						 			??

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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 > &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

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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 > & 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
 - 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 10W=1+2,001=1	cell row=2+3,col=2	cell row=2,col=3
cell row=3,col=1	Cell 10W=2+3,COI=2	cell row=3+4.col=3
cell row=4,col=1+2		- Cell 10w=3+4,col=3
cell row=5,col=1	cell row=5,col=2+3	
cell row=6+7,col=1+2		cell row=6,col=3
Cell 10W=0+7,COI=1+2		cell row=7,col=3
cell row=8,col=1	cell row=8,col=2 Inner cell Inner cell row=1,col=1 row=1,col=2 Inner cell Inner cell row=2,col=1 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

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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 > &areavectorright, vector< double > &areavectorright, vector< double > &areavectorrightplus, double volumeleftmins, double volumeleft, double volumeright, double volumeright, double deltat)

Public Attributes

double netflux [5]

6.5 Test Class Reference 15

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 > & areavectorleft, double volumeleft, 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

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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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