My Project

Generated by Doxygen 1.8.11

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Class Index

1.1 Class List

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

Chapter 2

File Index

2.1 File List

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

Chapter 3

Class Documentation

3.1 hw3 Class Reference

Public Member Functions

- void set_size (int)
  设置进程数目
- void set_rank (int)
  设置进程编号
- void set_f (const RHS &)
  设置右端项
- void set_N (int)
  设置网格密度
- void set_lambda (double)
  设置*lambda*参数
- void set_step (int)
  设置迭代步数
- SOL solve ()
  求解
- void set_solution (const RHS &)
  设置真解
- double error ()
  设置误差

3.1.1 Member Function Documentation

3.1.1.1 double hw3::error ( )

设置误差

Returns

误差

3.1.1.2 void hw3::set_f (const RHS & *f1*)

设置右端项

Parameters

RHS	右端项函数
f1	右端项

3.1.1.3 void hw3::set_lambda (double *lambda1*)

设置lambda参数

设置参数lambda

Parameters

double	lambda
lambda1	参数lambda

3.1.1.4 void hw3::set_N (int *N1*)

设置网格密度

设置网格数目

Parameters

int	网格密度
N1	网格数目

3.1.1.5 void hw3::set_rank (int *rank1*)

设置进程编号

Parameters

int	进程编号
rank1	进程编号

3.1.1.6 void hw3::set_size (int *size1*)

设置进程数目

Parameters

进程数目	
size1	进程数目

3.1.1.7 void hw3::set_solution (const RHS & *u1*)

设置真解

设置真解(供测试使用)

Parameters

RHS	真解
u1	真解

3.1.1.8 void hw3::set_step (int *step1*)

设置迭代步数

Parameters

int	迭代步数
step1	迭代步数

3.1.1.9 std::vector< std::complex< double > > hw3::solve ( )

求解

Returns

解

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

- hw3.h
- hw3.cpp

Chapter 4

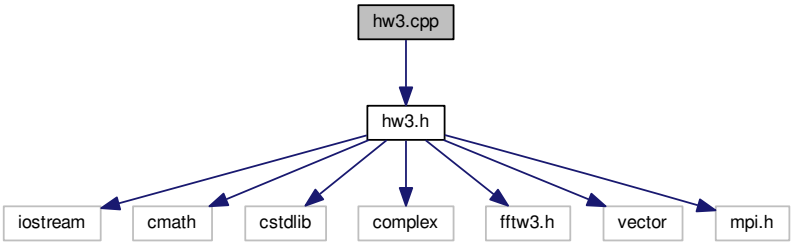
File Documentation

4.1 hw3.cpp File Reference

函数实现

```
#include "hw3.h"
```

Include dependency graph for hw3.cpp:



4.1.1 Detailed Description

函数实现

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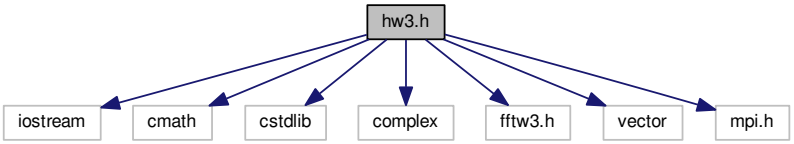
Date

2016-12-10

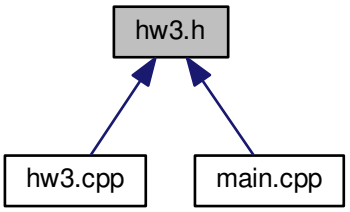
4.2 hw3.h File Reference

```
#include <iostream>
#include <cmath>
#include <cstdlib>
#include <complex>
#include <fftw3.h>
#include <vector>
#include "mpi.h"
```

Include dependency graph for hw3.h:



This graph shows which files directly or indirectly include this file:



Classes

- class hw3

4.2.1 Detailed Description

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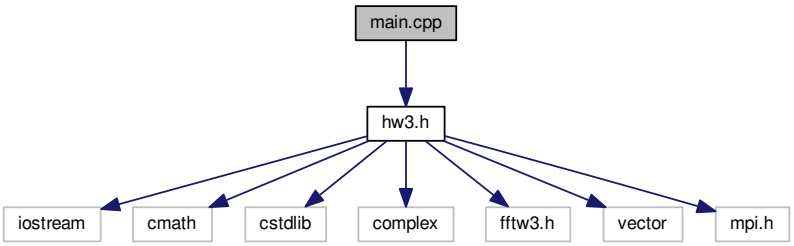
Date

2016-11-27

4.3 main.cpp File Reference

```
#include "hw3.h"
```

Include dependency graph for main.cpp:



Functions

- double **u** (double x, double y, double z)
- double **f** (double x, double y, double z)
- int **main** (int argc, char ∗∗argv)

4.3.1 Detailed Description

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Date

2016-11-18

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