Open Digital Twin

Release 0.1

Jiping Xin

Jun 04, 2022

CONTENTS

1 Cosmic Cube **3**

2 Airfoil Benchmark **5**
2.1 Solving PDEs in Python – The FEniCS Tutorial Volume I, Hans Petter Langtangen and Anders Logg 5

3 Software **7**
3.1 FENGSim 7
3.1.1 Class Hierarchy 7
3.1.2 File Hierarchy 7
3.1.3 Full API 7

4 Indices and tables **11**

5 OpenCAE+ **13**
5.1 OpenCAEPoro 13
5.2 FASP 13

Index **15**

欢迎使用开源数字孪生项目！ODT由FENGSim和OpenCAE+构成，其中FENGSim包括Cosmic Cube集成开发环境和Airfoil Benchmark架构，Airfoil架构包括FEniCS教程中文翻译版本。

CHAPTER

ONE

COSMIC CUBE

CHAPTER

TWO

AIRFOIL BENCHMARK

2.1 Solving PDEs in Python – The FEniCS Tutorial Volume I, Hans Petter Langtangen and Anders Logg

CHAPTER

THREE

SOFTWARE

3.1 FENGSim

3.1.1 Class Hierarchy

3.1.2 File Hierarchy

3.1.3 Full API

Classes and Structs

Class QTstyle_Test

- Defined in file_include_test.h

Class Documentation

class **QTstyle_Test**

A test class.

A more elaborate class description.

Public Types

enum **TEnum**

An enum.

More detailed enum description.

Values:

enumerator **TVal1**

Enum value TVal1.

enumerator **TVal2**

Enum value TVal2.

enumerator **TVal3**

Enum value TVal3.

Public Functions

QTstyle_Test()

A constructor.

A more elaborate description of the constructor.

~QTstyle_Test()

A destructor.

A more elaborate description of the destructor.

int **testMe**(int a, const char *s)

A normal member taking two arguments and returning an integer value.

See also:

QTstyle_Test(), *~QTstyle_Test()*, *testMeToo()* and *publicVar()*

Parameters

- **a** – an integer argument.
- **s** – a constant character pointer.

Returns The test results

virtual void **testMeToo**(char c1, char c2) = 0

A pure virtual member.

See also:

testMe()

Parameters

- **c1** – the first argument.
- **c2** – the second argument.

Public Members

enum *QTstyle_Test*::*TEnum* ***enumPtr**

Enum pointer.

Details.

enum *QTstyle_Test*::*TEnum* **enumVar**

Enum variable.

Details.

int **publicVar**

A public variable.

Details.

int (***handler**)(int a, int b)

A function variable.

Details.

CHAPTER

FOUR

INDICES AND TABLES

- genindex
- search

CHAPTER

FIVE

OPENCAE+

5.1 OpenCAEPoro

5.2 FASP

INDEX

Q

QTstyle_Test (*C++ class*), 7
QTstyle_Test::~QTstyle_Test (*C++ function*), 8
QTstyle_Test::enumPtr (*C++ member*), 8
QTstyle_Test::enumVar (*C++ member*), 8
QTstyle_Test::handler (*C++ member*), 9
QTstyle_Test::publicVar (*C++ member*), 9
QTstyle_Test::QTstyle_Test (*C++ function*), 8
QTstyle_Test::TEnum (*C++ enum*), 7
QTstyle_Test::TEnum::TVal1 (*C++ enumerator*), 7
QTstyle_Test::TEnum::TVal2 (*C++ enumerator*), 7
QTstyle_Test::TEnum::TVal3 (*C++ enumerator*), 7
QTstyle_Test::testMe (*C++ function*), 8
QTstyle_Test::testMeToo (*C++ function*), 8