Open Digital Twin

Release 0.1

Jiping Xin

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欢迎使用开源数字孪生项目！ODT由FENGSim、OpenCAE+和GCGE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教程中文版本。OpenCAE+包括OpenCAEPoro和FASP。OpenCAE+和GCGE分别由中国科学院计算数学所张晨松副研究员和谢和虎研究员主持开发。

CHAPTER

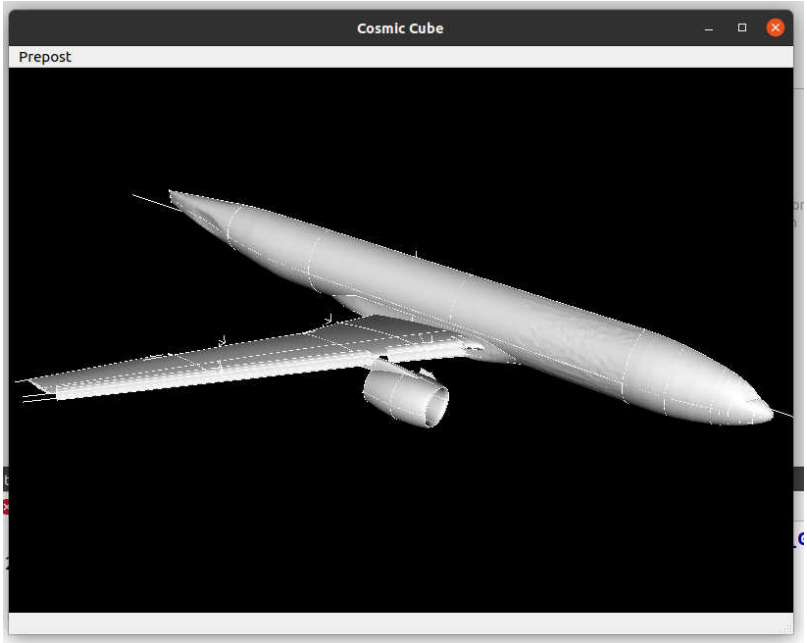
ONE

FENGSIM

1.1 Cosmic Cube集成开发环境

1.1.1 命令获取

```
>>> /bin/bash -c "$(curl https://raw.githubusercontent.com/OpenDigitalTwin-Dev/
↪OpenDigitalTwin/main/cube)"
```



1.2 Airfoil Benchmark CAX架构

1.2.1 前后处理

ODT_模块名称_函数名称

图形用户界面设计

主界面设计

1. 模仿GIMP
2. 通过菜单和工具栏进入CAD建模、定义物理模型、网格剖分、求解器、可视化五个模块
   - 梳理菜单和工具栏对应的action
   - 梳理和action connection的函数名称和功能
3. 主要操作通过浮动工具栏实现

CAD建模浮动工具栏设计

定义物理模型浮动工具栏设计

网格剖分浮动工具栏设计

求解器浮动工具栏设计

可视化浮动工具栏设计

1.2.2 求解器

M++

FEniCS

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TWO

OPENCAE+

2.1 OpenCAEPoro

2.2 FASP

CHAPTER

THREE

GCGE

3.1 GCGE

谢和虎

CHAPTER

FOUR

ODT

4.1 Class Hierarchy

4.2 File Hierarchy

4.3 Full API

4.3.1 Namespaces

Namespace Ui

Contents

- *Classes*

Classes

- *Class AboutDialog*
- *Class AdditiveManufacturingDockWidget*
- *Class CADDockWidget*
- *Class FEMDockWidget*
- *Class MachiningDockWidget*
- *Class MainWindow*
- *Class MeasureDockWidget*
- *Class MeshDockWidget*
- *Class SPCDockWidget*
- *Class TransportDockWidget*
- *Class VTKDockWidget*

4.3.2 Classes and Structs

Class test

- Defined in file_include_test.h

Class Documentation

class **test**

Public Functions

test()

Class AboutDialog

- Defined in file_include_ui_AboutDialog.h

Inheritance Relationships

Base Type

- public Ui_AboutDialog (*Class Ui_AboutDialog*)

Class Documentation

class **AboutDialog** : public *Ui_AboutDialog*

Class AdditiveManufacturingDockWidget

- Defined in file_include_ui_AdditiveManufacturingDockWidget.h

Inheritance Relationships

Base Type

- public Ui_AdditiveManufacturingDockWidget (*Class Ui_AdditiveManufacturingDockWidget*)

Class Documentation

class **AdditiveManufacturingDockWidget** : public *Ui_AdditiveManufacturingDockWidget*

Class CADDockWidget

- Defined in file_include_ui_CADDockWidget.h

Inheritance Relationships

Base Type

- `public Ui_CADDockWidget` (*Class Ui_CADDockWidget*)

Class Documentation

class **CADDockWidget** : public *Ui_CADDockWidget*

Class FEMDockWidget

- Defined in file_include_ui_FEMDockWidget.h

Inheritance Relationships

Base Type

- `public Ui_FEMDockWidget` (*Class Ui_FEMDockWidget*)

Class Documentation

class **FEMDockWidget** : public *Ui_FEMDockWidget*

Class MachiningDockWidget

- Defined in file_include_ui_MachiningDockWidget.h

Inheritance Relationships

Base Type

- `public Ui_MachiningDockWidget` (*Class Ui_MachiningDockWidget*)

Class Documentation

class **MachiningDockWidget** : public *Ui_MachiningDockWidget*

Class MainWindow

- Defined in file_include_ui_MainWindow.h

Inheritance Relationships

Base Type

- `public Ui_MainWindow` (*Class Ui_MainWindow*)

Class Documentation

class **MainWindow** : public *Ui_MainWindow*

Class MeasureDockWidget

- Defined in file_include_ui_MeasureDockWidget.h

Inheritance Relationships

Base Type

- `public Ui_MeasureDockWidget` (*Class Ui_MeasureDockWidget*)

Class Documentation

class **MeasureDockWidget** : public *Ui_MeasureDockWidget*

Class MeshDockWidget

- Defined in file_include_ui_MeshDockWidget.h

Inheritance Relationships

Base Type

- `public Ui_MeshDockWidget` (*Class Ui_MeshDockWidget*)

Class Documentation

class **MeshDockWidget** : public *Ui_MeshDockWidget*

Class SPCDockWidget

- Defined in file_include_ui_SPCDockWidget.h

Inheritance Relationships

Base Type

- `public Ui_SPCDockWidget` (*Class Ui_SPCDockWidget*)

Class Documentation

class **SPCDockWidget** : public *Ui_SPCDockWidget*

Class TransportDockWidget

- Defined in file_include_ui_TransportDockWidget.h

Inheritance Relationships

Base Type

- `public Ui_TransportDockWidget` (*Class Ui_TransportDockWidget*)

Class Documentation

class **TransportDockWidget** : public *Ui_TransportDockWidget*

Class VTKDockWidget

- Defined in file_include_ui_VTKDockWidget.h

Inheritance Relationships

Base Type

- `public Ui_VTKDockWidget` (*Class Ui_VTKDockWidget*)

Class Documentation

class **VTKDockWidget** : public *Ui_VTKDockWidget*

Class Ui_AboutDialog

- Defined in file_include_ui_AboutDialog.h

Inheritance Relationships

Derived Type

- `public Ui::AboutDialog` (*Class AboutDialog*)

Class Documentation

class **Ui_AboutDialog**

Subclassed by *Ui::AboutDialog*

Public Functions

inline void **setupUi**(QDialog *AboutDialog)

inline void **retranslateUi**(QDialog *AboutDialog)

Public Members

QHBoxLayout ***horizontalLayout**

ClickedLabel ***label**

Class Ui_AdditiveManufacturingDockWidget

- Defined in file_include_ui_AdditiveManufacturingDockWidget.h

Inheritance Relationships

Derived Type

- `public Ui::AdditiveManufacturingDockWidget` (*Class AdditiveManufacturingDockWidget*)

Class Documentation

class **Ui_AdditiveManufacturingDockWidget**

Subclassed by *Ui::AdditiveManufacturingDockWidget*

Public Functions

inline void **setupUi**(QWidget *AdditiveManufacturingDockWidget)

inline void **retranslateUi**(QWidget *AdditiveManufacturingDockWidget)

Public Members

QVBoxLayout ***verticalLayout**

QTabWidget ***tabWidget**

QWidget ***tab**

QVBoxLayout ***verticalLayout_7**

QHBoxLayout ***horizontalLayout_6**

QLabel ***label**

QSpacerItem ***horizontalSpacer_7**

QPushButton *pushButton_4

QPushButton *pushButton_10

QHBoxLayout *horizontalLayout_8

QLabel *label_2

QSpacerItem *horizontalSpacer_8

QPushButton *pushButton_14

QPushButton *pushButton_17

QHBoxLayout *horizontalLayout_9

QLabel *label_3

QSpacerItem *horizontalSpacer_9

QPushButton *pushButton_18

QPushButton *pushButton_19

QGridLayout *gridLayout

QDoubleSpinBox *doubleSpinBox

QSpacerItem *horizontalSpacer_11

QDoubleSpinBox *doubleSpinBox_2

QLabel *label_7

QSpacerItem *horizontalSpacer_12

QLabel *label_6

QHBoxLayout *horizontalLayout_10

QLabel *label_4

QSpacerItem *horizontalSpacer_10

QPushButton *pushButton_20

QPushButton *pushButton_21

QHBoxLayout *horizontalLayout_12

QLabel *label_8

QSpacerItem *horizontalSpacer_13

QComboBox *comboBox

QGridLayout *gridLayout_2

QLabel *label_10

QLabel *label_9

QPushButton *pushButton_24

QPushButton *pushButton_25

QSpacerItem *horizontalSpacer_15

QSpacerItem *horizontalSpacer_16

QHBoxLayout *horizontalLayout_14

QLabel *label_11

QSpacerItem *horizontalSpacer_14

QDoubleSpinBox *doubleSpinBox_3

QHBoxLayout *horizontalLayout_13

QSpacerItem *horizontalSpacer_17

QSpacerItem *verticalSpacer_8

QWidget *tab_2

QVBoxLayout *verticalLayout_8

QHBoxLayout *horizontalLayout_11

QLabel *label_5

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QLineEdit *lineEdit_2

QSpacerItem *horizontalSpacer_18

QPushButton *pushButton_22

QPushButton *pushButton_23

QHBoxLayout *horizontalLayout_16

QLabel *label_12

QTableWidget *tableWidget

QGridLayout *gridLayout_4

QLabel *label_15

QDoubleSpinBox *doubleSpinBox_5

QLabel *label_17

QDoubleSpinBox *doubleSpinBox_6

QLabel *label_13

QLabel *label_16

QLabel *label_18

QLabel *label_14

QDoubleSpinBox *doubleSpinBox_7

QDoubleSpinBox *doubleSpinBox_8

QDoubleSpinBox *doubleSpinBox_4

QSpinBox *spinBox

QHBoxLayout *horizontalLayout_18

QProgressBar *progressBar

QSpacerItem *horizontalSpacer_19

QPushButton *pushButton_26

QPushButton *pushButton_27

QSpacerItem *verticalSpacer_9

QHBoxLayout *horizontalLayout_17

QPushButton *pushButton_28

QSlider *horizontalSlider

QToolBox *toolBox

QWidget *page_5

QVBoxLayout *verticalLayout_2

QHBoxLayout *horizontalLayout

QSpacerItem *horizontalSpacer_5

QPushButton *pushButton

QPushButton *pushButton_3

QSpacerItem *verticalSpacer

QWidget *page_6

QVBoxLayout *verticalLayout_3

QHBoxLayout *horizontalLayout_2

QSpacerItem *horizontalSpacer_6

QPushButton *pushButton_7

QPushButton *pushButton_2

QPushButton *pushButton_9

QSpacerItem *verticalSpacer_2

QWidget *page_7

QVBoxLayout *verticalLayout_4

QHBoxLayout *horizontalLayout_3

QSpacerItem *horizontalSpacer_2

QPushButton *pushButton_13

QPushButton *pushButton_5

QPushButton *pushButton_12

QSpacerItem *verticalSpacer_3

QWidget *page_3

QVBoxLayout *verticalLayout_5

QHBoxLayout *horizontalLayout_4

QSpacerItem *horizontalSpacer_3

QPushButton *pushButton_15

QPushButton ***pushButton_8**

QPushButton ***pushButton_11**

QHBoxLayout ***horizontalLayout_5**

QSpacerItem ***horizontalSpacer**

QLineEdit ***lineEdit**

QSpacerItem ***verticalSpacer_4**

QWidget ***page_4**

QVBoxLayout ***verticalLayout_6**

QHBoxLayout ***horizontalLayout_7**

QSpacerItem ***horizontalSpacer_4**

QPushButton ***pushButton_6**

QPushButton ***pushButton_16**

QSpacerItem ***verticalSpacer_5**

QSpacerItem ***verticalSpacer_6**

Class Ui_CADDockWidget

- Defined in file_include_ui_CADDockWidget.h

Inheritance Relationships

Derived Type

- `public Ui::CADDockWidget` (*Class CADDockWidget*)

Class Documentation

class **Ui_CADDockWidget**

Subclassed by *Ui::CADDockWidget*

Public Functions

inline void **setupUi**(QWidget *CADDockWidget)

inline void **retranslateUi**(QWidget *CADDockWidget)

Public Members

QAction ***actionSphere**

QAction ***actionCube**

QAction ***actionTorus**

QAction ***actionCone**

QAction ***actionCylinder**

QAction ***actionPoint**

QAction ***actionLine**

QAction ***actionSquare**

QAction ***actionUnion**

QAction ***actionSection**

QAction ***actionCut**

QAction ***actionSweep**

QAction ***actionExtrude**

QAction ***actionMirror**

QAction ***actionSelectFace**

QAction *actionSelectDomain

QAction *actionPart1

QAction *actionPart2

QVBoxLayout *verticalLayout_5

QGridLayout *gridLayout

QPushButton *pushButton_4

QSpacerItem *horizontalSpacer_2

QSpacerItem *horizontalSpacer

QPushButton *pushButton_9

QPushButton *pushButton

QPushButton *pushButton_2

QPushButton *pushButton_3

QPushButton *pushButton_7

QPushButton *pushButton_6

QPushButton *pushButton_5

QPushButton *pushButton_13

QPushButton *pushButton_0

QSpacerItem *verticalSpacer_4

QTabWidget *tabWidget

QWidget *tab

QVBoxLayout *verticalLayout_2

QGridLayout *gridLayout_3

QPushButton *pushButton_33

QComboBox *comboBox_2

QLabel *label_4

QGridLayout *gridLayout_4

QLabel *label

QDoubleSpinBox *doubleSpinBox_4

QLabel *label_3

QDoubleSpinBox *doubleSpinBox_5

QDoubleSpinBox *doubleSpinBox_6

QLabel *label_2

QVBoxLayout *verticalLayout

QSpacerItem *verticalSpacer

QSpacerItem *verticalSpacer_3

QWidget *tab_3

QVBoxLayout *verticalLayout_3

QGridLayout *gridLayout_5

QVBoxLayout *verticalLayout_4

QSpacerItem *verticalSpacer_6

QGridLayout *gridLayout_11

QLabel *label_7

QLabel *label_8

QDoubleSpinBox *doubleSpinBox_2

QDoubleSpinBox *doubleSpinBox_3

QDoubleSpinBox *doubleSpinBox

QLabel *label_6

QPushButton *pushButton_36

QLabel *label_5

QComboBox *comboBox

QSpacerItem *verticalSpacer_5

QWidget *tab_2

QVBoxLayout *verticalLayout_6

QHBoxLayout *horizontalLayout

QComboBox *comboBox_4

QPushButton *pushButton_10

QPushButton *pushButton_11

QGridLayout *gridLayout_2

QDoubleSpinBox *doubleSpinBox_8

QDoubleSpinBox *doubleSpinBox_7

QPushButton *pushButton_8

QComboBox *comboBox_3

QLabel *label_9

QLabel *label_10

QDoubleSpinBox *doubleSpinBox_9

QSpacerItem *verticalSpacer_2

Class Ui_FEMDockWidget

- Defined in file_include_ui_FEMDockWidget.h

Inheritance Relationships

Derived Type

- `public Ui::FEMDockWidget` (*Class FEMDockWidget*)

Class Documentation

class **Ui_FEMDockWidget**

Subclassed by *Ui::FEMDockWidget*

Public Functions

inline void **setupUi**(QWidget *FEMDockWidget)

inline void **retranslateUi**(QWidget *FEMDockWidget)

Public Members

QVBoxLayout *verticalLayout

QGridLayout *gridLayout_2

QLabel *label_4

QComboBox *comboBox_4

QPushButton *pushButton_2

QComboBox *comboBox

QPushButton *pushButton

QLabel *label

QGridLayout *gridLayout

QComboBox *comboBox_2

QComboBox *comboBox_3

QLineEdit *lineEdit

QSpacerItem *verticalSpacer

Class Ui_MachiningDockWidget

- Defined in file_include_ui_MachiningDockWidget.h

Inheritance Relationships

Derived Type

- `public Ui::MachiningDockWidget` (*Class MachiningDockWidget*)

Class Documentation

class **Ui_MachiningDockWidget**

Subclassed by *Ui::MachiningDockWidget*

Public Functions

inline void **setupUi**(QWidget *MachiningDockWidget)

inline void **retranslateUi**(QWidget *MachiningDockWidget)

Public Members

QVBoxLayout *verticalLayout

QTabWidget *tabWidget

QWidget *tab

QVBoxLayout *verticalLayout_2

QHBoxLayout *horizontalLayout_5

QComboBox *comboBox_5

QPushButton *pushButton_7

QGridLayout *gridLayout

QPushButton *pushButton

QLineEdit *lineEdit

QComboBox *comboBox

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QLineEdit *lineEdit_2

QPushButton *pushButton_2

QHBoxLayout *horizontalLayout_9

QLabel *label_3

QSpacerItem *horizontalSpacer_4

QPushButton *pushButton_11

QHBoxLayout *horizontalLayout_2

QComboBox *comboBox_3

QPushButton *pushButton_3

QHBoxLayout *horizontalLayout_8

QLabel *label

QSpacerItem *horizontalSpacer_3

QPushButton *pushButton_10

QHBoxLayout *horizontalLayout_3

QComboBox *comboBox_4

QPushButton *pushButton_4

QHBoxLayout *horizontalLayout_4

QLabel *label_2

QSpacerItem *horizontalSpacer

QDoubleSpinBox *doubleSpinBox

QPushButton *pushButton_5

QHBoxLayout *horizontalLayout_6

QLabel *label_4

QSpacerItem *horizontalSpacer_2

QComboBox *comboBox_6

QPushButton *pushButton_8

QHBoxLayout *horizontalLayout

QLabel *label_5

QSpacerItem *horizontalSpacer_6

QSpinBox *spinBox

QSpacerItem *horizontalSpacer_5

QHBoxLayout *horizontalLayout_7

QProgressBar *progressBar

QPushButton *pushButton_9

QPushButton *pushButton_12

QSpacerItem *verticalSpacer

QWidget *tab_2

Class Ui_MainWindow

- Defined in file_include_ui_MainWindow.h

Inheritance Relationships

Derived Type

- `public Ui::MainWindow` (*Class MainWindow*)

Class Documentation

class **Ui_MainWindow**

Subclassed by *Ui::MainWindow*

Public Functions

inline void **setupUi**(QMainWindow *MainWindow)

inline void **retranslateUi**(QMainWindow *MainWindow)

Public Members

QAction *actionCAD

QAction *actionMesh

QAction *actionFEM

QAction *actionVisual

QAction *actionAbout

QAction *actionSave

QAction *actionOpen

QAction *actionSPC

QAction *actionAxo

QAction *actionFront

QAction *actionBack

QAction *actionLeft

QAction *actionRight

QAction *actionTop

QAction *actionBottom

QAction *actionFit

QAction *actionNew

QAction *actionMeasure

QAction *actionSystem

QAction *actionAdditiveManufacturing

QAction *actionViewRotationH

QAction *actionViewRotationV

QAction *actionMachining

QAction *actionTransport

OCCWidget *centralWidget

QVBoxLayout *verticalLayout

QMdiArea *mdiArea

QMenuBar *menuBar

QMenu *menuFile

QMenu *menuFENGSim

QMenu *menuView

QMenu *menuAbout

QStatusBar *statusBar

QToolBar *toolBarFENGSim

QDockWidget *dockWidget

QWidget *dockWidgetContents

QVBoxLayout *verticalLayout_2

QPushButton *pushButton

Class Ui_MeasureDockWidget

- Defined in file_include_ui_MeasureDockWidget.h

Inheritance Relationships

Derived Type

- `public Ui::MeasureDockWidget` (*Class MeasureDockWidget*)

Class Documentation

class **Ui_MeasureDockWidget**

Subclassed by *Ui::MeasureDockWidget*

Public Functions

inline void **setupUi**(QWidget *MeasureDockWidget)

inline void **retranslateUi**(QWidget *MeasureDockWidget)

Public Members

QAction ***actionStraightness**

QAction ***actionFlatness**

QAction ***actionSurface**

QAction ***actionLine**

QAction ***actionCircularity**

QAction ***actionCylindricity**

QAction ***actionLineProfile**

QAction ***actionSurfaceProfile**

QVBoxLayout ***verticalLayout**

QHBoxLayout ***horizontalLayout_3**

QLabel ***label**

QSpacerItem ***horizontalSpacer_8**

QPushButton ***pushButton_3**

QPushButton ***pushButton_6**

QHBoxLayout ***horizontalLayout_7**

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QSpacerItem ***horizontalSpacer_3**

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QPushButton *pushButton_2

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QDoubleSpinBox *doubleSpinBox

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QPushButton *pushButton_5

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QLabel *label_9

QHBoxLayout *horizontalLayout_12

QLabel *label_8

QDoubleSpinBox *doubleSpinBox_2

QSpacerItem *horizontalSpacer_5

QPushButton *pushButton_4

QPushButton *pushButton_7

QHBoxLayout *horizontalLayout_10

QLabel *label_5

QSpacerItem *horizontalSpacer

QPushButton *pushButton_8

QPushButton *pushButton_9

QHBoxLayout *horizontalLayout_11

QLabel *label_6

QSpacerItem *horizontalSpacer_6

QHBoxLayout *horizontalLayout_8

QLabel *label_11

QDoubleSpinBox *doubleSpinBox_3

QSpacerItem *horizontalSpacer_2

QPushButton *pushButton_19

QPushButton *pushButton_11

QProgressBar *progressBar

QHBoxLayout *horizontalLayout

QLabel *label_2

QPushButton *pushButton_10

QPushButton *pushButton_13

QProgressBar *progressBar_2

QSpacerItem *verticalSpacer

Class Ui_MeshDockWidget

- Defined in file_include_ui_MeshDockWidget.h

Inheritance Relationships

Derived Type

- `public Ui::MeshDockWidget` (*Class MeshDockWidget*)

Class Documentation

class **Ui_MeshDockWidget**

Subclassed by *Ui::MeshDockWidget*

Public Functions

inline void **setupUi**(QWidget *MeshDockWidget)

inline void **retranslateUi**(QWidget *MeshDockWidget)

Public Members

QVBoxLayout ***verticalLayout**

QTabWidget ***tabWidget**

QWidget ***tab**

QVBoxLayout ***verticalLayout_3**

QGridLayout ***gridLayout_2**

QDoubleSpinBox ***doubleSpinBox**

QLabel ***label**

QPushButton ***pushButton**

QSpacerItem ***verticalSpacer**

Class Ui_SPCDockWidget

- Defined in file_include_ui_SPCDockWidget.h

Inheritance Relationships

Derived Type

- `public Ui::SPCDockWidget` (*Class SPCDockWidget*)

Class Documentation

class **Ui_SPCDockWidget**

Subclassed by *Ui::SPCDockWidget*

Public Functions

inline void **setupUi**(QWidget *SPCDockWidget)

inline void **retranslateUi**(QWidget *SPCDockWidget)

Public Members

QHBoxLayout ***horizontalLayout**

QTreeWidget ***treeWidget**

Class Ui_TransportDockWidget

- Defined in file_include_ui_TransportDockWidget.h

Inheritance Relationships

Derived Type

- `public Ui::TransportDockWidget` (*Class TransportDockWidget*)

Class Documentation

class **Ui_TransportDockWidget**

Subclassed by *Ui::TransportDockWidget*

Public Functions

inline void **setupUi**(QWidget *TransportDockWidget)

inline void **retranslateUi**(QWidget *TransportDockWidget)

Public Members

QVBoxLayout *verticalLayout

QTabWidget *tabWidget

QWidget *tab

QVBoxLayout *verticalLayout_3

QVBoxLayout *verticalLayout_2

QTableWidget *tableWidget

QHBoxLayout *horizontalLayout_2

QSpacerItem *horizontalSpacer

QPushButton *pushButton

QPushButton *pushButton_2

QPushButton *pushButton_3

QSpacerItem *verticalSpacer

QWidget *tab_2

QVBoxLayout *verticalLayout_4

QHBoxLayout *horizontalLayout_11

QLabel *label

QPushButton *pushButton_10

QHBoxLayout *horizontalLayout_9

QLabel *label_2

QDoubleSpinBox *doubleSpinBox

QHBoxLayout *horizontalLayout_10

QLabel *label_5

QDoubleSpinBox *doubleSpinBox_2

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QLabel *label_8

QPushButton *pushButton_8

QHBoxLayout *horizontalLayout_6

QLabel *label_9

QPushButton *pushButton_9

QHBoxLayout *horizontalLayout_3

QSpacerItem *horizontalSpacer_3

QPushButton *pushButton_6

QComboBox *comboBox

QPushButton *pushButton_4

QSpacerItem *verticalSpacer_2

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QVBoxLayout *verticalLayout_5

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QSpacerItem *verticalSpacer_3

Class Ui_VTKDockWidget

- Defined in file_include_ui_VTKDockWidget.h

Inheritance Relationships

Derived Type

- `public Ui::VTKDockWidget` (*Class VTKDockWidget*)

Class Documentation

class **Ui_VTKDockWidget**

Subclassed by *Ui::VTKDockWidget*

Public Functions

inline void **setupUi**(QWidget *VTKDockWidget)

inline void **retranslateUi**(QWidget *VTKDockWidget)

Public Members

QVBoxLayout ***verticalLayout**

QGridLayout ***gridLayout**

QLabel ***label**

QLineEdit ***lineEdit**

QPushButton ***pushButton**

QVBoxLayout ***verticalLayout_2**

QHBoxLayout ***horizontalLayout**

QLabel ***label_2**

QPushButton ***pushButton_2**

QSpacerItem ***verticalSpacer**

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