L.A.M.P

Genereret af Doxygen 1.8.11

Indhold

1 Modul-indeks

1.1 Moduler

Her er en liste over alle moduler:

2 Namespace-indeks

2.1 Oversigt over namespaces

Her er en liste over alle namespaces med korte beskrivelser:

3 Hierarkisk indeks

3.1 Klassehierarki

Denne nedarvningsliste er sorteret næsten - men ikke nødvendigvis helt - alfabetisk:

4 Indeks over datastrukturer

4.1 Datastrukturer

Her er datastrukturerne med korte beskrivelser:

5 Fil-indeks

5.1 Filoversigt

Her er en liste over alle filer med korte beskrivelser:

6 Modul-dokumentation

6.1 Length constant

#Defines

- #define MAXLEN 5

6.1.1 Detaljeret beskrivelse

6.1.2 #Define-dokumentation

6.1.2.1 #define MAXLEN 5

```
#include <spiapi.h>
```

Set length of buffer

Defineret på linje 24 i filen Semesterprojekt3/spiapi.h.

7 Namespace-dokumentation

7.1 Ui namespace-reference

Datastrukturer

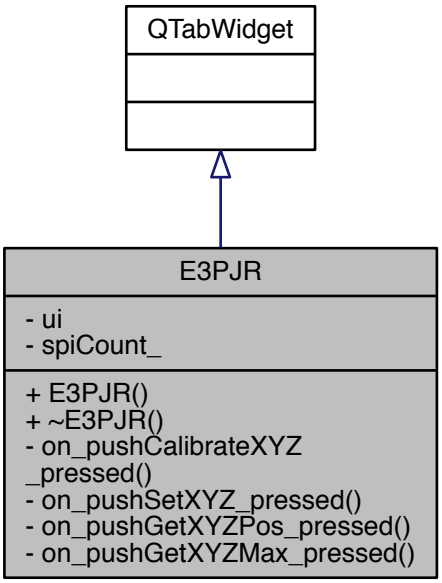
- class E3PJR
- class SpiTestProgram

8 Datastruktur-documentation

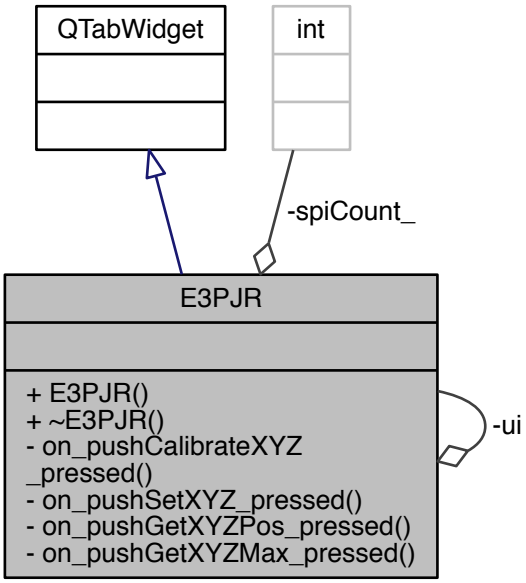
8.1 E3PJR Klasse-reference

```
#include <e3pjr.h>
```

Stamtræ for E3PJR:



Samarbejdsdiagram for E3PJR:



Offentlige metoder

- E3PJR (QWidget ∗parent=0)
- ∼E3PJR ()

Private slots

- void on_pushCalibrateXYZ_pressed ()
- void on_pushSetXYZ_pressed ()
- void on_pushGetXYZPos_pressed ()
- void on_pushGetXYZMax_pressed ()

Private attributter

- Ui::E3PJR ∗ ui
- int spiCount_

8.1.1 Detaljeret beskrivelse

Defineret på linje 15 i filen e3pjr.h.

8.1.2 Dokumentation af konstruktører og destruktører

8.1.2.1 E3PJR (QWidget * *parent* = 0) [explicit]

8.1.2.2 ~E3PJR ( )

8.1.3 Dokumentation af medlemsfunktioner

8.1.3.1 void on_pushCalibrateXYZ_pressed ( ) [private], [slot]

8.1.3.2 void on_pushGetXYZMax_pressed ( ) [private], [slot]

8.1.3.3 void on_pushGetXYZPos_pressed ( ) [private], [slot]

8.1.3.4 void on_pushSetXYZ_pressed ( ) [private], [slot]

8.1.4 Felt-dokumentation

8.1.4.1 int spiCount_ [private]

Defineret på linje 38 i filen e3pjr.h.

8.1.4.2 Ui::E3PJR* ui [private]

Defineret på linje 37 i filen e3pjr.h.

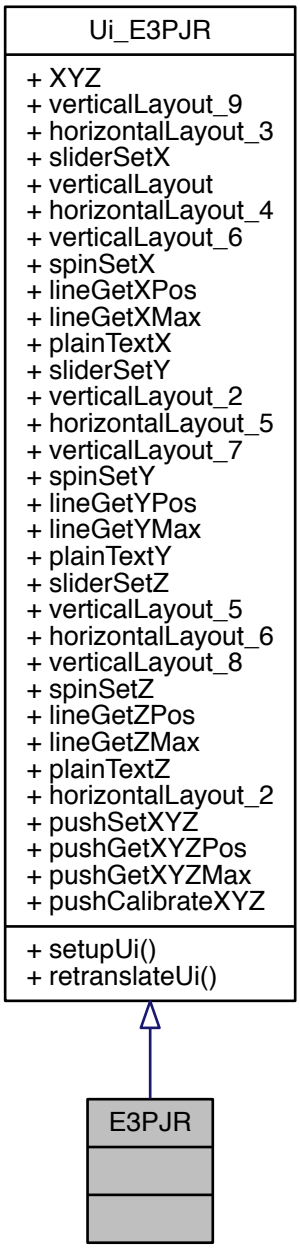
Dokumentationen for denne klasse blev genereret ud fra filen:

- e3pjr.h

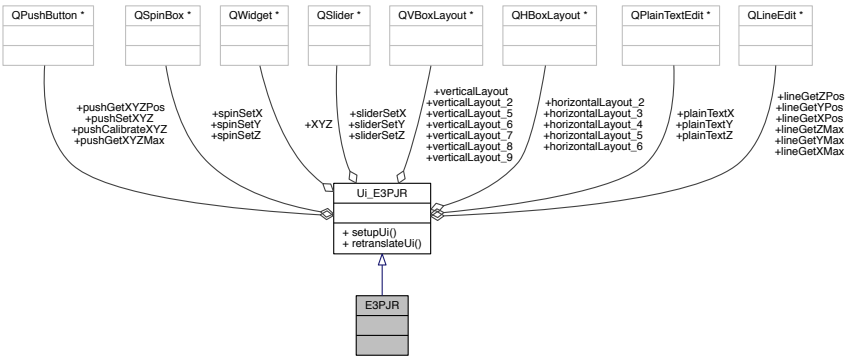
8.2 E3PJR Klasse-reference

```
#include <ui_e3pjr.h>
```

Stamtræ for E3PJR:



Samarbejdsdiagram for E3PJR:



Offentlige metoder

- void setupUi (QTabWidget ∗E3PJR)
- void retranslateUi (QTabWidget ∗E3PJR)

Datafelter

- QWidget ∗ XYZ
- QVBoxLayout ∗ verticalLayout_9
- QHBoxLayout ∗ horizontalLayout_3
- QSlider ∗ sliderSetX
- QVBoxLayout ∗ verticalLayout
- QHBoxLayout ∗ horizontalLayout_4
- QVBoxLayout ∗ verticalLayout_6
- QSpinBox ∗ spinSetX
- QLineEdit ∗ lineGetXPos
- QLineEdit ∗ lineGetXMax
- QPlainTextEdit ∗ plainTextX
- QSlider ∗ sliderSetY
- QVBoxLayout ∗ verticalLayout_2
- QHBoxLayout ∗ horizontalLayout_5
- QVBoxLayout ∗ verticalLayout_7
- QSpinBox ∗ spinSetY
- QLineEdit ∗ lineGetYPos
- QLineEdit ∗ lineGetYMax
- QPlainTextEdit ∗ plainTextY
- QSlider ∗ sliderSetZ
- QVBoxLayout ∗ verticalLayout_5
- QHBoxLayout ∗ horizontalLayout_6
- QVBoxLayout ∗ verticalLayout_8
- QSpinBox ∗ spinSetZ
- QLineEdit ∗ lineGetZPos
- QLineEdit ∗ lineGetZMax
- QPlainTextEdit ∗ plainTextZ
- QHBoxLayout ∗ horizontalLayout_2
- QPushButton ∗ pushSetXYZ
- QPushButton ∗ pushGetXYZPos
- QPushButton ∗ pushGetXYZMax
- QPushButton ∗ pushCalibrateXYZ

8.2.1 Detaljeret beskrivelse

Defineret på linje 300 i filen ui_e3pjr.h.

8.2.2 Dokumentation af medlemsfunktioner

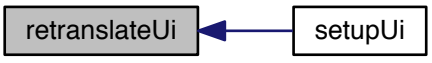
8.2.2.1 void retranslateUi (QTabWidget * *E3PJR*) [inline], [inherited]

Defineret på linje 281 i filen ui_e3pjr.h.

Refereret til af Ui_E3PJR::setupUi().

```
282     {
283         E3PJR->setWindowTitle(QApplication::translate("E3PJR", "TabWidget", 0, QApplication::UnicodeUTF8));
284         lineGetXPos->setPlaceholderText(QApplication::translate("E3PJR", "xPos", 0,
    QApplication::UnicodeUTF8));
285         lineGetXMax->setPlaceholderText(QApplication::translate("E3PJR", "xMax", 0,
    QApplication::UnicodeUTF8));
286         lineGetYPos->setPlaceholderText(QApplication::translate("E3PJR", "yPos", 0,
    QApplication::UnicodeUTF8));
287         lineGetYMax->setPlaceholderText(QApplication::translate("E3PJR", "yMax", 0,
    QApplication::UnicodeUTF8));
288         lineGetZPos->setPlaceholderText(QApplication::translate("E3PJR", "zPos", 0,
    QApplication::UnicodeUTF8));
289         lineGetZMax->setPlaceholderText(QApplication::translate("E3PJR", "zMax", 0,
    QApplication::UnicodeUTF8));
290         pushSetXYZ->setText(QApplication::translate("E3PJR", "SetXYZPos", 0,
    QApplication::UnicodeUTF8));
291         pushGetXYZPos->setText(QApplication::translate("E3PJR", "GetXYZPos", 0,
    QApplication::UnicodeUTF8));
292         pushGetXYZMax->setText(QApplication::translate("E3PJR", "GetXYZMax", 0,
    QApplication::UnicodeUTF8));
293         pushCalibrateXYZ->setText(QApplication::translate("E3PJR", "CalibrateXYZ", 0,
    QApplication::UnicodeUTF8));
294         E3PJR->setTabText(E3PJR->indexOf(XYZ), QApplication::translate("E3PJR", "XYZ", 0,
    QApplication::UnicodeUTF8));
295     } // retranslateUi
```

Her er kalder-grafen for denne funktion:



8.2.2.2 void setupUi (QTabWidget * *E3PJR*) [inline], [inherited]

Defineret på linje 65 i filen ui_e3pjr.h.

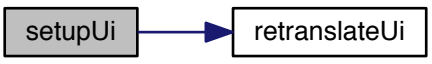
Indeholder referencer til Ui_E3PJR::retranslateUi().

```
66      {
67          if (E3PJR->objectName().isEmpty())
68              E3PJR->setObjectName(QString::fromUtf8("E3PJR"));
69          E3PJR->resize(480, 278);
70          XYZ = new QWidget();
71          XYZ->setObjectName(QString::fromUtf8("XYZ"));
72          verticalLayout_9 = new QVBoxLayout(XYZ);
73          verticalLayout_9->setObjectName(QString::fromUtf8("verticalLayout_9"));
74          horizontalLayout_3 = new QHBoxLayout();
75          horizontalLayout_3->setObjectName(QString::fromUtf8("horizontalLayout_3"));
76          sliderSetX = new QSlider(XYZ);
77          sliderSetX->setObjectName(QString::fromUtf8("sliderSetX"));
78          sliderSetX->setMaximum(255);
79          sliderSetX->setSingleStep(5);
80          sliderSetX->setPageStep(15);
81          sliderSetX->setOrientation(Qt::Vertical);
82
83          horizontalLayout_3->addWidget(sliderSetX);
84
85          verticalLayout = new QVBoxLayout();
86          verticalLayout->setObjectName(QString::fromUtf8("verticalLayout"));
87          horizontalLayout_4 = new QHBoxLayout();
88          horizontalLayout_4->setObjectName(QString::fromUtf8("horizontalLayout_4"));
89          verticalLayout_6 = new QVBoxLayout();
90          verticalLayout_6->setObjectName(QString::fromUtf8("verticalLayout_6"));
91          spinSetX = new QSpinBox(XYZ);
92          spinSetX->setObjectName(QString::fromUtf8("spinSetX"));
93          spinSetX->setAlignment(Qt::AlignCenter);
94          spinSetX->setMaximum(255);
95          spinSetX->setSingleStep(5);
96
97          verticalLayout_6->addWidget(spinSetX);
98
99          lineGetXPos = new QLineEdit(XYZ);
100          lineGetXPos->setObjectName(QString::fromUtf8("lineGetXPos"));
101          lineGetXPos->setAlignment(Qt::AlignCenter);
102
103          verticalLayout_6->addWidget(lineGetXPos);
104
105          lineGetXMax = new QLineEdit(XYZ);
106          lineGetXMax->setObjectName(QString::fromUtf8("lineGetXMax"));
107          lineGetXMax->setAlignment(Qt::AlignCenter);
108
109          verticalLayout_6->addWidget(lineGetXMax);
110
111
112          horizontalLayout_4->addLayout(verticalLayout_6);
113
114
115          verticalLayout->addLayout(horizontalLayout_4);
116
117          plainTextX = new QPlainTextEdit(XYZ);
118          plainTextX->setObjectName(QString::fromUtf8("plainTextX"));
119          plainTextX->setVerticalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
120          plainTextX->setHorizontalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
121          plainTextX->setUndoRedoEnabled(false);
122          plainTextX->setReadOnly(true);
123          plainTextX->setOverwriteMode(false);
124
125          verticalLayout->addWidget(plainTextX);
126
127
128          horizontalLayout_3->addLayout(verticalLayout);
129
130          sliderSetY = new QSlider(XYZ);
131          sliderSetY->setObjectName(QString::fromUtf8("sliderSetY"));
132          sliderSetY->setMaximum(255);
133          sliderSetY->setSingleStep(5);
134          sliderSetY->setPageStep(15);
135          sliderSetY->setOrientation(Qt::Vertical);
136
137          horizontalLayout_3->addWidget(sliderSetY);
138
139          verticalLayout_2 = new QVBoxLayout();
140          verticalLayout_2->setObjectName(QString::fromUtf8("verticalLayout_2"));
141          horizontalLayout_5 = new QHBoxLayout();
142          horizontalLayout_5->setObjectName(QString::fromUtf8("horizontalLayout_5"));
143          verticalLayout_7 = new QVBoxLayout();
144          verticalLayout_7->setObjectName(QString::fromUtf8("verticalLayout_7"));
145          spinSetY = new QSpinBox(XYZ);
146          spinSetY->setObjectName(QString::fromUtf8("spinSetY"));
147          spinSetY->setAlignment(Qt::AlignCenter);
148          spinSetY->setMaximum(255);
149          spinSetY->setSingleStep(5);
150
151          verticalLayout_7->addWidget(spinSetY);
152
```

```
153         lineGetYPos = new QLineEdit(XYZ);
154         lineGetYPos->setObjectName(QString::fromUtf8("lineGetYPos"));
155         lineGetYPos->setAlignment(Qt::AlignCenter);
156 
157         verticalLayout_7->addWidget(lineGetYPos);
158 
159         lineGetYMax = new QLineEdit(XYZ);
160         lineGetYMax->setObjectName(QString::fromUtf8("lineGetYMax"));
161         lineGetYMax->setAlignment(Qt::AlignCenter);
162 
163         verticalLayout_7->addWidget(lineGetYMax);
164 
165 
166         horizontalLayout_5->addLayout(verticalLayout_7);
167 
168 
169         verticalLayout_2->addLayout(horizontalLayout_5);
170 
171         plainTextY = new QPlainTextEdit(XYZ);
172         plainTextY->setObjectName(QString::fromUtf8("plainTextY"));
173         plainTextY->setVerticalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
174         plainTextY->setHorizontalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
175         plainTextY->setUndoRedoEnabled(false);
176         plainTextY->setReadOnly(true);
177 
178         verticalLayout_2->addWidget(plainTextY);
179 
180 
181         horizontalLayout_3->addLayout(verticalLayout_2);
182 
183         sliderSetZ = new QSlider(XYZ);
184         sliderSetZ->setObjectName(QString::fromUtf8("sliderSetZ"));
185         sliderSetZ->setMaximum(255);
186         sliderSetZ->setSingleStep(5);
187         sliderSetZ->setPageStep(15);
188         sliderSetZ->setOrientation(Qt::Vertical);
189 
190         horizontalLayout_3->addWidget(sliderSetZ);
191 
192         verticalLayout_5 = new QVBoxLayout();
193         verticalLayout_5->setObjectName(QString::fromUtf8("verticalLayout_5"));
194         horizontalLayout_6 = new QHBoxLayout();
195         horizontalLayout_6->setObjectName(QString::fromUtf8("horizontalLayout_6"));
196         verticalLayout_8 = new QVBoxLayout();
197         verticalLayout_8->setObjectName(QString::fromUtf8("verticalLayout_8"));
198         spinSetZ = new QSpinBox(XYZ);
199         spinSetZ->setObjectName(QString::fromUtf8("spinSetZ"));
200         spinSetZ->setAlignment(Qt::AlignCenter);
201         spinSetZ->setMaximum(255);
202         spinSetZ->setSingleStep(5);
203 
204         verticalLayout_8->addWidget(spinSetZ);
205 
206         lineGetZPos = new QLineEdit(XYZ);
207         lineGetZPos->setObjectName(QString::fromUtf8("lineGetZPos"));
208         lineGetZPos->setAlignment(Qt::AlignCenter);
209 
210         verticalLayout_8->addWidget(lineGetZPos);
211 
212         lineGetZMax = new QLineEdit(XYZ);
213         lineGetZMax->setObjectName(QString::fromUtf8("lineGetZMax"));
214         lineGetZMax->setAlignment(Qt::AlignCenter);
215 
216         verticalLayout_8->addWidget(lineGetZMax);
217 
218 
219         horizontalLayout_6->addLayout(verticalLayout_8);
220 
221 
222         verticalLayout_5->addLayout(horizontalLayout_6);
223 
224         plainTextZ = new QPlainTextEdit(XYZ);
225         plainTextZ->setObjectName(QString::fromUtf8("plainTextZ"));
226         plainTextZ->setVerticalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
227         plainTextZ->setHorizontalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
228         plainTextZ->setUndoRedoEnabled(false);
229         plainTextZ->setReadOnly(true);
230 
231         verticalLayout_5->addWidget(plainTextZ);
232 
233 
234         horizontalLayout_3->addLayout(verticalLayout_5);
235 
236 
237         verticalLayout_9->addLayout(horizontalLayout_3);
238 
239         horizontalLayout_2 = new QHBoxLayout();
```

```
240         horizontalLayout_2->setObjectName(QString::fromUtf8("horizontalLayout_2"));
241         pushSetXYZ = new QPushButton(XYZ);
242         pushSetXYZ->setObjectName(QString::fromUtf8("pushSetXYZ"));
243 
244         horizontalLayout_2->addWidget(pushSetXYZ);
245 
246         pushGetXYZPos = new QPushButton(XYZ);
247         pushGetXYZPos->setObjectName(QString::fromUtf8("pushGetXYZPos"));
248 
249         horizontalLayout_2->addWidget(pushGetXYZPos);
250 
251         pushGetXYZMax = new QPushButton(XYZ);
252         pushGetXYZMax->setObjectName(QString::fromUtf8("pushGetXYZMax"));
253 
254         horizontalLayout_2->addWidget(pushGetXYZMax);
255 
256         pushCalibrateXYZ = new QPushButton(XYZ);
257         pushCalibrateXYZ->setObjectName(QString::fromUtf8("pushCalibrateXYZ"));
258 
259         horizontalLayout_2->addWidget(pushCalibrateXYZ);
260 
261 
262         verticalLayout_9->addLayout(horizontalLayout_2);
263 
264         E3PJR->addTab(XYZ, QString());
265         QWidget::setTabOrder(spinSetY, spinSetZ);
266 
267         retranslateUi(E3PJR);
268         QObject::connect(sliderSetY, SIGNAL(valueChanged(int)),
    spinSetY, SLOT(setValue(int)));
269         QObject::connect(spinSetY, SIGNAL(valueChanged(int)), sliderSetY, SLOT(setValue(
    int)));
270         QObject::connect(sliderSetZ, SIGNAL(valueChanged(int)),
    spinSetZ, SLOT(setValue(int)));
271         QObject::connect(spinSetZ, SIGNAL(valueChanged(int)), sliderSetZ, SLOT(setValue(
    int)));
272         QObject::connect(sliderSetX, SIGNAL(valueChanged(int)),
    spinSetX, SLOT(setValue(int)));
273         QObject::connect(spinSetX, SIGNAL(valueChanged(int)), sliderSetX, SLOT(setValue(
    int)));
274 
275         E3PJR->setCurrentIndex(0);
276 
277 
278         QMetaObject::connectSlotsByName(E3PJR);
279     } // setupUi
```

Her er kald-grafen for denne funktion:



8.2.3 Felt-dokumentation

8.2.3.1 QHBoxLayout* horizontalLayout_2 [inherited]

Defineret på linje 59 i filen ui_e3pjr.h.

8.2.3.2 QHBoxLayout* horizontalLayout_3 [inherited]

Defineret på linje 34 i filen ui_e3pjr.h.

8.2.3.3 QHBoxLayout* horizontalLayout_4 [inherited]

Defineret på linje 37 i filen ui_e3pjr.h.

8.2.3.4 QHBoxLayout* horizontalLayout_5 [inherited]

Defineret på linje 45 i filen ui_e3pjr.h.

8.2.3.5 QHBoxLayout* horizontalLayout_6 [inherited]

Defineret på linje 53 i filen ui_e3pjr.h.

8.2.3.6 QLineEdit* lineGetXMax [inherited]

Defineret på linje 41 i filen ui_e3pjr.h.

8.2.3.7 QLineEdit* lineGetXPos [inherited]

Defineret på linje 40 i filen ui_e3pjr.h.

8.2.3.8 QLineEdit* lineGetYMax [inherited]

Defineret på linje 49 i filen ui_e3pjr.h.

8.2.3.9 QLineEdit* lineGetYPos [inherited]

Defineret på linje 48 i filen ui_e3pjr.h.

8.2.3.10 QLineEdit* lineGetZMax [inherited]

Defineret på linje 57 i filen ui_e3pjr.h.

8.2.3.11 QLineEdit* lineGetZPos [inherited]

Defineret på linje 56 i filen ui_e3pjr.h.

8.2.3.12 QPlainTextEdit* plainTextX [inherited]

Defineret på linje 42 i filen ui_e3pjr.h.

8.2.3.13 QPlainTextEdit* plainTextY [inherited]

Defineret på linje 50 i filen ui_e3pjr.h.

8.2.3.14 QPlainTextEdit* plainTextZ [inherited]

Defineret på linje 58 i filen ui_e3pjr.h.

8.2.3.15 QPushButton* pushCalibrateXYZ [inherited]

Defineret på linje 63 i filen ui_e3pjr.h.

8.2.3.16 QPushButton* pushGetXYZMax [inherited]

Defineret på linje 62 i filen ui_e3pjr.h.

8.2.3.17 QPushButton* pushGetXYZPos [inherited]

Defineret på linje 61 i filen ui_e3pjr.h.

8.2.3.18 QPushButton* pushSetXYZ [inherited]

Defineret på linje 60 i filen ui_e3pjr.h.

8.2.3.19 QSlider* sliderSetX [inherited]

Defineret på linje 35 i filen ui_e3pjr.h.

8.2.3.20 QSlider* sliderSetY [inherited]

Defineret på linje 43 i filen ui_e3pjr.h.

8.2.3.21 QSlider* sliderSetZ [inherited]

Defineret på linje 51 i filen ui_e3pjr.h.

8.2.3.22 QSpinBox* spinSetX [inherited]

Defineret på linje 39 i filen ui_e3pjr.h.

8.2.3.23 QSpinBox* spinSetY [inherited]

Defineret på linje 47 i filen ui_e3pjr.h.

8.2.3.24 QSpinBox* spinSetZ [inherited]

Defineret på linje 55 i filen ui_e3pjr.h.

8.2.3.25 QVBoxLayout* verticalLayout [inherited]

Defineret på linje 36 i filen ui_e3pjr.h.

8.2.3.26 QVBoxLayout* verticalLayout_2 [inherited]

Defineret på linje 44 i filen ui_e3pjr.h.

8.2.3.27 QVBoxLayout* verticalLayout_5 [inherited]

Defineret på linje 52 i filen ui_e3pjr.h.

8.2.3.28 QVBoxLayout* verticalLayout_6 [inherited]

Defineret på linje 38 i filen ui_e3pjr.h.

8.2.3.29 QVBoxLayout* verticalLayout_7 [inherited]

Defineret på linje 46 i filen ui_e3pjr.h.

8.2.3.30 QVBoxLayout* verticalLayout_8 [inherited]

Defineret på linje 54 i filen ui_e3pjr.h.

8.2.3.31 QVBoxLayout* verticalLayout_9 [inherited]

Defineret på linje 33 i filen ui_e3pjr.h.

8.2.3.32 QWidget* XYZ [inherited]

Defineret på linje 32 i filen ui_e3pjr.h.

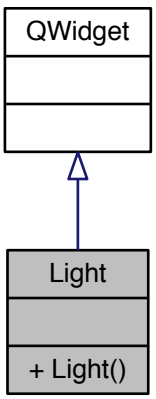
Dokumentationen for denne klasse blev genereret ud fra filen:

- ui_e3pjr.h

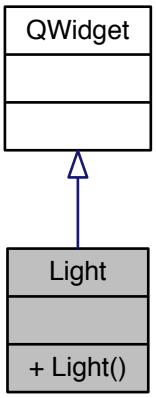
8.3 Light Klasse-reference

```
#include <light.h>
```

Stamtræ for Light:



Samarbejdsdiagram for Light:



Offentlige metoder

- Light (QWidget ∗parent=0)

8.3.1 Detaljeret beskrivelse

Defineret på linje 7 i filen light.h.

8.3.2 Dokumentation af konstruktører og destruktører

8.3.2.1 Light (QWidget ∗ *parent* = 0) [explicit]

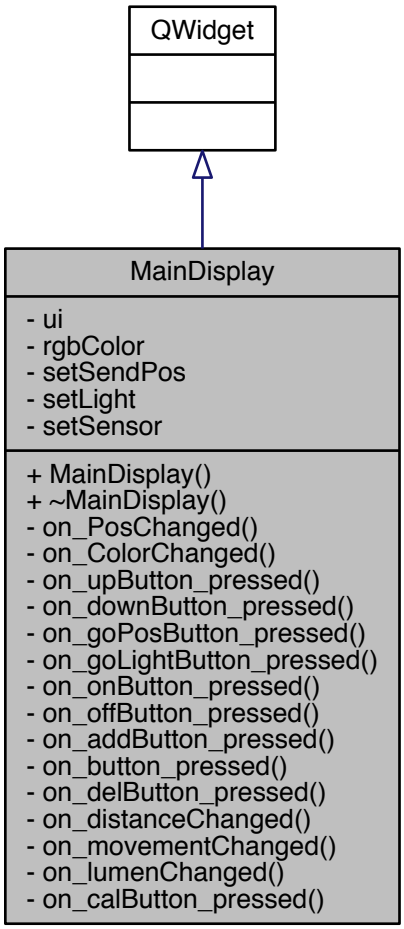
Dokumentationen for denne klasse blev genereret ud fra filen:

- light.h

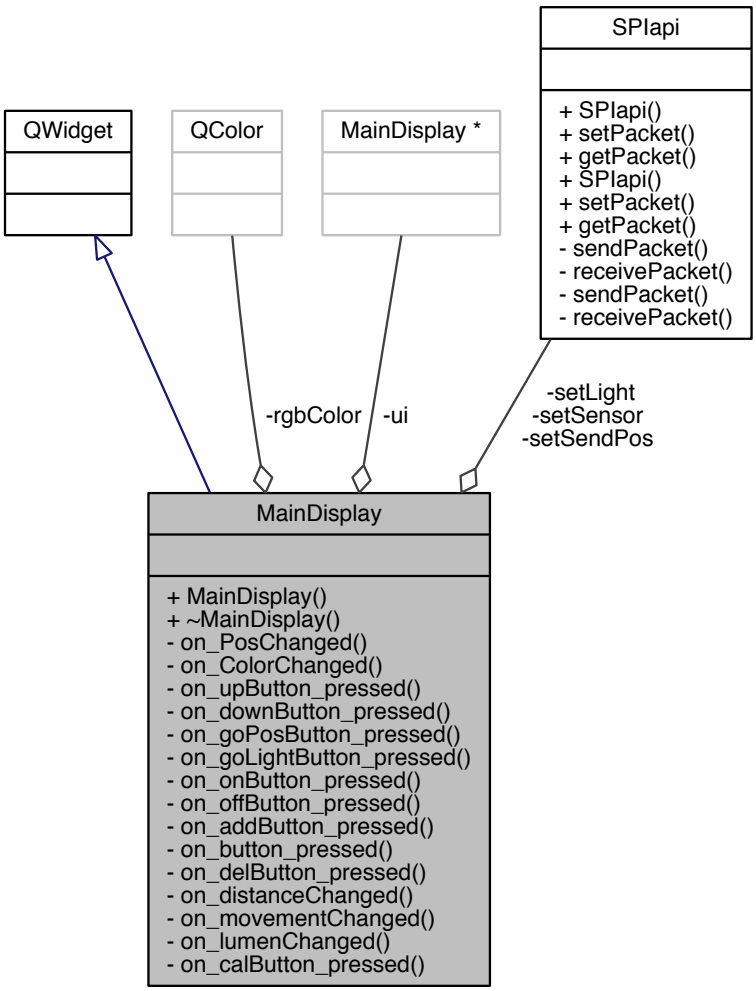
8.4 MainDisplay Klasse-reference

```
#include <maindisplay.h>
```

Stamtræ for MainDisplay:



Samarbejdsdiagram for MainDisplay:



Offentlige metoder

- MainDisplay (QWidget *parent=0)
- ~MainDisplay ()

Private slots

- void on_PosChanged ()
- void on_ColorChanged ()
- void on_upButton_pressed ()
- void on_downButton_pressed ()
- void on_goPosButton_pressed ()
- void on_goLightButton_pressed ()
- void on_onButton_pressed ()
- void on_offButton_pressed ()

- void on_addButton_pressed ()
- void on_button_pressed ()
- void on_delButton_pressed ()
- void on_distanceChanged ()
- void on_movementChanged ()
- void on_lumenChanged ()
- void on_calButton_pressed ()

Private attributter

- Ui::MainDisplay ∗ ui
- QColor rgbColor
- SPIapi setSendPos
- SPIapi setLight
- SPIapi setSensor

8.4.1 Detaljeret beskrivelse

Forfatter

Victor Busk (201409557@post.au.dk)

Defineret på linje 19 i filen maindisplay.h.

8.4.2 Dokumentation af konstruktører og destruktører

8.4.2.1 MainDisplay (QWidget ∗ *parent* = 0) [explicit]

8.4.2.2 ∼MainDisplay ( )

8.4.3 Dokumentation af medlemsfunktioner

8.4.3.1 void on_addButton_pressed ( ) [private], [slot]

8.4.3.2 void on_button_pressed ( ) [private], [slot]

8.4.3.3 void on_calButton_pressed ( ) [private], [slot]

8.4.3.4 void on_ColorChanged ( ) [private], [slot]

8.4.3.5 void on_delButton_pressed ( ) [private], [slot]

8.4.3.6 void on_distanceChanged ( ) [private], [slot]

8.4.3.7 void on_downButton_pressed ( ) [private], [slot]

8.4.3.8 void on_goLightButton_pressed ( ) [private], [slot]

8.4.3.9 void on_goPosButton_pressed ( ) [private], [slot]

8.4.3.10 void on_lumenChanged ( ) [private], [slot]

8.4.3.11 void on_movementChanged ( ) [private], [slot]

8.4.3.12 void on_offButton_pressed ( ) [private], [slot]

8.4.3.13 void on_onButton_pressed ( ) [private], [slot]

8.4.3.14 void on_PosChanged ( ) [private], [slot]

8.4.3.15 void on_upButton_pressed ( ) [private], [slot]

8.4.4 Felt-dokumentation

8.4.4.1 QColor rgbColor [private]

Defineret på linje 46 i filen maindisplay.h.

8.4.4.2 SPIapi setLight [private]

Defineret på linje 48 i filen maindisplay.h.

8.4.4.3 SPIapi setSendPos [private]

Defineret på linje 47 i filen maindisplay.h.

8.4.4.4 SPIapi setSensor [private]

Defineret på linje 49 i filen maindisplay.h.

8.4.4.5 Ui::MainDisplay* ui [private]

Defineret på linje 45 i filen maindisplay.h.

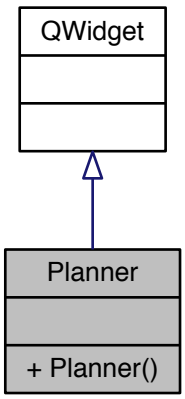
Dokumentationen for denne klasse blev genereret ud fra filen:

- maindisplay.h

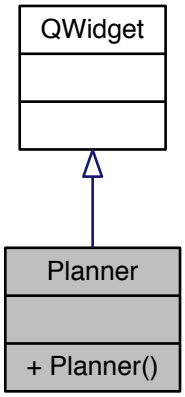
8.5 Planner Klasse-reference

`#include <planner.h>`

Stamtræ for Planner:



Samarbejdsdiagram for Planner:



Offentlige metoder

- Planner (QWidget ∗parent=0)

8.5.1 Detaljeret beskrivelse

Defineret på linje 6 i filen planner.h.

8.5.2 Dokumentation af konstruktører og destruktører

8.5.2.1 Planner (QWidget * *parent* = 0) [explicit]

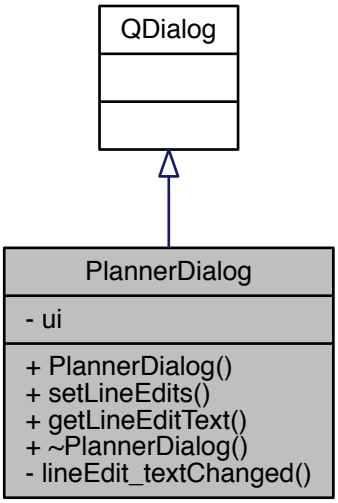
Dokumentationen for denne klasse blev genereret ud fra filen:

- planner.h

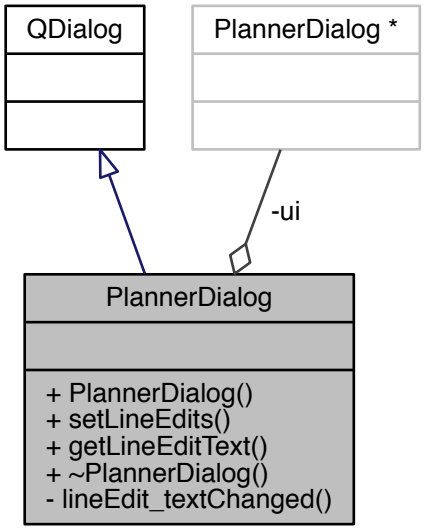
8.6 PlannerDialog Klasse-reference

```
#include <plannerdialog.h>
```

Stamtræ for PlannerDialog:



Samarbejdsdiagram for PlannerDialog:



Offentlige metoder

- PlannerDialog (QWidget *parent=0)
- void setLineEdits (QString plan)
- QString getLineEditText () const
- ~PlannerDialog ()

Private slots

- void lineEdit_textChanged ()

Private attributter

- Ui::PlannerDialog * ui

8.6.1 Detaljeret beskrivelse

Forfatter

Victor Busk (201409557@post.au.dk)

Defineret på linje 18 i filen plannerdialog.h.

8.6.2 Dokumentation af konstruktører og destruktører

8.6.2.1 PlannerDialog (QWidget * *parent* = 0) [explicit]

8.6.2.2 ~PlannerDialog ( )

8.6.3 Dokumentation af medlemsfunktioner

8.6.3.1 QString getLineEditText ( ) const

8.6.3.2 void lineEdit_textChanged ( ) [private], [slot]

8.6.3.3 void setLineEdits (QString *plan*)

8.6.4 Felt-dokumentation

8.6.4.1 Ui::PlannerDialog* ui [private]

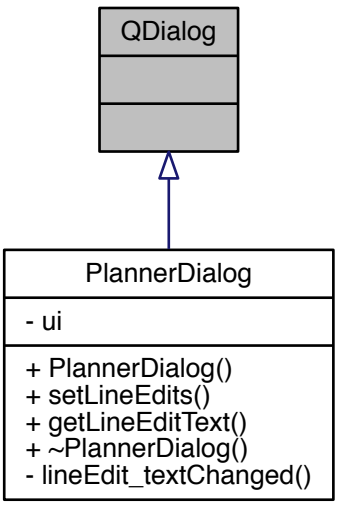
Defineret på linje 34 i filen plannerdialog.h.

Dokumentationen for denne klasse blev genereret ud fra filen:

- plannerdialog.h

8.7 QDialog Klasse-reference

Stamtræ for QDialog:



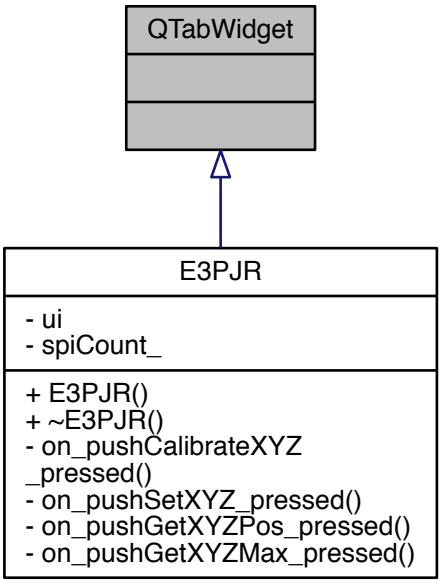
Samarbejdsdiagram for QDialog:

Dokumentationen for denne klasse blev genereret ud fra filen:

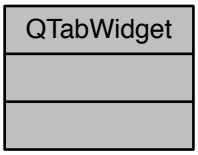
- plannerdialog.h

8.8 QTabWidget Klasse-reference

Stamtræ for QTabWidget:



Samarbejdsdiagram for QTabWidget:



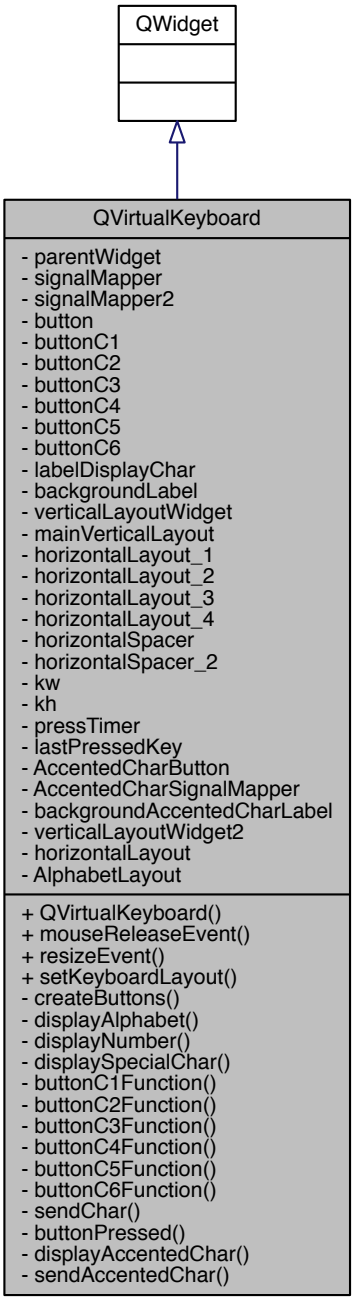
Dokumentationen for denne klasse blev genereret ud fra filen:

- e3pjr.h

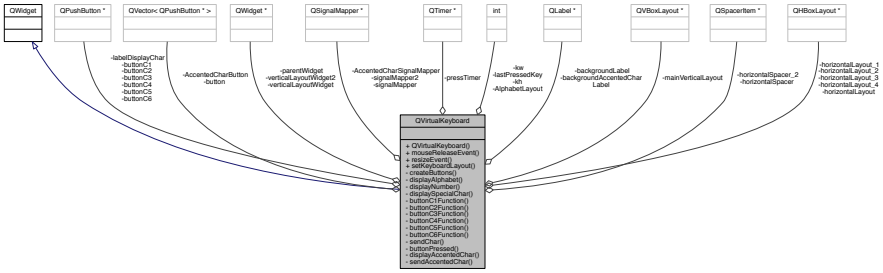
8.9 QVirtualKeyboard Klasse-reference

```
#include <QVirtualKeyboard.h>
```

Stamtræ for QVirtualKeyboard:



Samarbejdsdiagram for QVirtualKeyboard:



Offentlige metoder

- QVirtualKeyboard (QWidget ∗parent=0)
- void mouseReleaseEvent (QMouseEvent ∗event)
- void resizeEvent (QResizeEvent ∗event)
- void setKeyboardLayout (int layout)

Private slots

- void createButtons (void)
- void displayAlphabet (void)
- void displayNumber (void)
- void displaySpecialChar (void)
- void buttonC1Function (void)
- void buttonC2Function (void)
- void buttonC3Function (void)
- void buttonC4Function (void)
- void buttonC5Function (void)
- void buttonC6Function (void)
- void sendChar (int indexOfCharToSend)
- void buttonPressed (int indexOfCharToSend)
- void displayAccentedChar (void)
- void sendAccentedChar (int indexOfCharToSend)

Private attributter

- QWidget ∗ parentWidget
- QSignalMapper ∗ signalMapper
- QSignalMapper ∗ signalMapper2
- QVector< QPushButton ∗ > button
- QPushButton ∗ buttonC1
- QPushButton ∗ buttonC2
- QPushButton ∗ buttonC3
- QPushButton ∗ buttonC4
- QPushButton ∗ buttonC5
- QPushButton ∗ buttonC6
- QPushButton ∗ labelDisplayChar
- QLabel ∗ backgroundLabel
- QWidget ∗ verticalLayoutWidget

- QVBoxLayout * mainVerticalLayout
- QHBoxLayout * horizontalLayout_1
- QHBoxLayout * horizontalLayout_2
- QHBoxLayout * horizontalLayout_3
- QHBoxLayout * horizontalLayout_4
- QSpacerItem * horizontalSpacer
- QSpacerItem * horizontalSpacer_2
- int kw
- int kh
- QTimer * pressTimer
- int lastPressedKey
- QVector< QPushButton * > AccentedCharButton
- QSignalMapper * AccentedCharSignalMapper
- QLabel * backgroundAccentedCharLabel
- QWidget * verticalLayoutWidget2
- QHBoxLayout * horizontalLayout
- int AlphabetLayout

8.9.1 Detaljeret beskrivelse

Defineret på linje 28 i filen QVirtualKeyboard.h.

8.9.2 Dokumentation af konstruktører og destruktører

8.9.2.1 QVirtualKeyboard (QWidget * *parent* = 0)

8.9.3 Dokumentation af medlemsfunktioner

8.9.3.1 void buttonC1Function (void) [private], [slot]

8.9.3.2 void buttonC2Function (void) [private], [slot]

8.9.3.3 void buttonC3Function (void) [private], [slot]

8.9.3.4 void buttonC4Function (void) [private], [slot]

8.9.3.5 void buttonC5Function (void) [private], [slot]

8.9.3.6 void buttonC6Function (void) [private], [slot]

8.9.3.7 void buttonPressed (int *indexOfCharToSend*) [private], [slot]

8.9.3.8 void createButtons (void) [private], [slot]

8.9.3.9 void displayAccentedChar (void) [private], [slot]

8.9.3.10 void displayAlphabet (void) [private], [slot]

8.9.3.11 void displayNumber (void) [private], [slot]

8.9.3.12 void displaySpecialChar (void) [private], [slot]

8.9.3.13 void mouseReleaseEvent (QMouseEvent * *event*)

8.9.3.14 void resizeEvent (QResizeEvent * *event*)

8.9.3.15 void sendAccentedChar (int *indexOfCharToSend*) [private], [slot]

8.9.3.16 void sendChar (int *indexOfCharToSend*) [private], [slot]

8.9.3.17 void setKeyboardLayout (int *layout*)

8.9.4 Felt-dokumentation

8.9.4.1 QVector<QPushButton *> AccentedCharButton [private]

Defineret på linje 99 i filen QVirtualKeyboard.h.

8.9.4.2 QSignalMapper* AccentedCharSignalMapper [private]

Defineret på linje 100 i filen QVirtualKeyboard.h.

8.9.4.3 int AlphabetLayout [private]

Defineret på linje 107 i filen QVirtualKeyboard.h.

8.9.4.4 QLabel* backgroundAccentedCharLabel [private]

Defineret på linje 102 i filen QVirtualKeyboard.h.

8.9.4.5 QLabel* backgroundLabel [private]

Defineret på linje 81 i filen QVirtualKeyboard.h.

8.9.4.6 QVector<QPushButton *> button [private]

Defineret på linje 70 i filen QVirtualKeyboard.h.

8.9.4.7 QPushButton* buttonC1 [private]

Defineret på linje 72 i filen QVirtualKeyboard.h.

8.9.4.8 QPushButton* buttonC2 [private]

Defineret på linje 73 i filen QVirtualKeyboard.h.

8.9.4.9 QPushButton* buttonC3 [private]

Defineret på linje 74 i filen QVirtualKeyboard.h.

8.9.4.10 QPushButton* buttonC4 [private]

Defineret på linje 75 i filen QVirtualKeyboard.h.

8.9.4.11 QPushButton* buttonC5 [private]

Defineret på linje 76 i filen QVirtualKeyboard.h.

8.9.4.12 QPushButton* buttonC6 [private]

Defineret på linje 77 i filen QVirtualKeyboard.h.

8.9.4.13 QHBoxLayout* horizontalLayout [private]

Defineret på linje 105 i filen QVirtualKeyboard.h.

8.9.4.14 QHBoxLayout* horizontalLayout_1 [private]

Defineret på linje 85 i filen QVirtualKeyboard.h.

8.9.4.15 QHBoxLayout* horizontalLayout_2 [private]

Defineret på linje 86 i filen QVirtualKeyboard.h.

8.9.4.16 QHBoxLayout* horizontalLayout_3 [private]

Defineret på linje 87 i filen QVirtualKeyboard.h.

8.9.4.17 QHBoxLayout* horizontalLayout_4 [private]

Defineret på linje 88 i filen QVirtualKeyboard.h.

8.9.4.18 QSpacerItem* horizontalSpacer [private]

Defineret på linje 90 i filen QVirtualKeyboard.h.

8.9.4.19 QSpacerItem* horizontalSpacer_2 [private]

Defineret på linje 91 i filen QVirtualKeyboard.h.

8.9.4.20 int kh [private]

Defineret på linje 94 i filen QVirtualKeyboard.h.

8.9.4.21 int kw [private]

Defineret på linje 93 i filen QVirtualKeyboard.h.

8.9.4.22 QPushButton* labelDisplayChar [private]

Defineret på linje 79 i filen QVirtualKeyboard.h.

8.9.4.23 int lastPressedKey [private]

Defineret på linje 98 i filen QVirtualKeyboard.h.

8.9.4.24 QVBoxLayout* mainVerticalLayout [private]

Defineret på linje 84 i filen QVirtualKeyboard.h.

8.9.4.25 QWidget* parentWidget [private]

Defineret på linje 64 i filen QVirtualKeyboard.h.

8.9.4.26 QTimer* pressTimer [private]

Defineret på linje 97 i filen QVirtualKeyboard.h.

8.9.4.27 QSignalMapper* signalMapper [private]

Defineret på linje 67 i filen QVirtualKeyboard.h.

8.9.4.28 QSignalMapper* signalMapper2 [private]

Defineret på linje 68 i filen QVirtualKeyboard.h.

8.9.4.29 QWidget* verticalLayoutWidget [private]

Defineret på linje 83 i filen QVirtualKeyboard.h.

8.9.4.30 QWidget* verticalLayoutWidget2 [private]

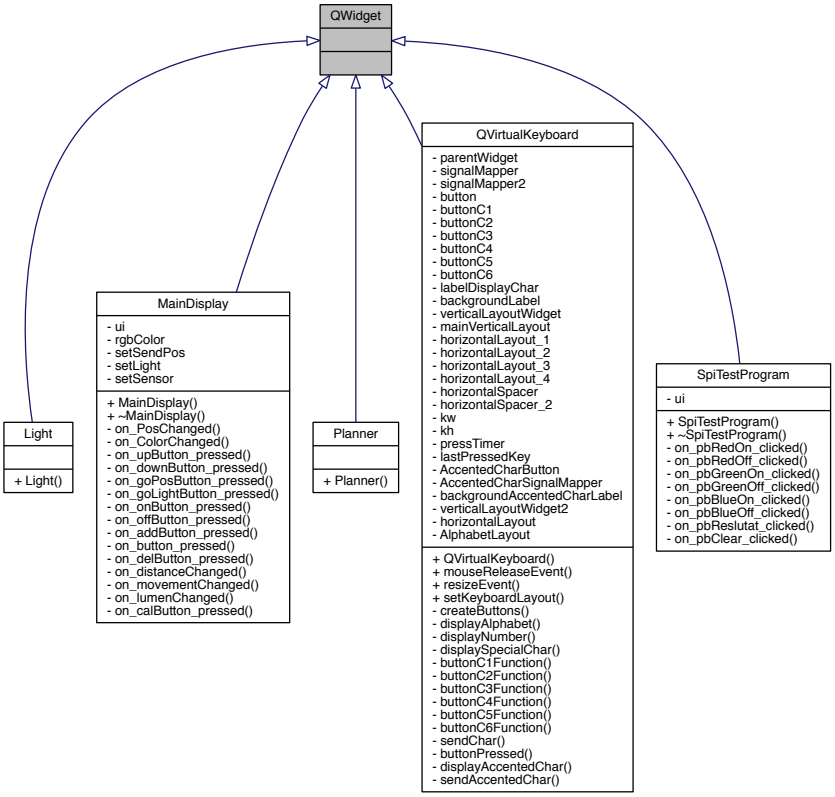
Defineret på linje 104 i filen QVirtualKeyboard.h.

Dokumentationen for denne klasse blev genereret ud fra filen:

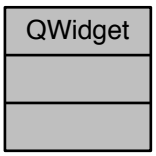
- QVirtualKeyboard.h

8.10 QWidget Klasse-reference

Stamtræ for QWidget:



Samarbejdsdiagram for QWidget:



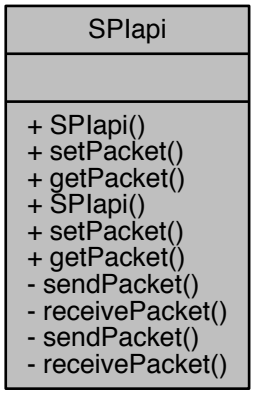
Dokumentationen for denne klasse blev genereret ud fra filen:

- spitestprogram.h

8.11 SPIapi Klasse-reference

```
#include <spiapi.h>
```

Samarbejdsdiagram for SPIapi:



Offentlige metoder

- SPIapi ()
- int setPacket (const unsigned char ∗cmd, unsigned char ∗value) const
- int getPacket (unsigned char ∗cmd, unsigned int ∗value)
- SPIapi ()
- int setPacket (unsigned char ∗cmd, unsigned char ∗value) const
- int getPacket (unsigned char ∗cmd, unsigned int ∗value)

Private metoder

- int sendPacket (const unsigned char ∗cmd, unsigned char ∗data) const
- int receivePacket (unsigned char ∗cmd, unsigned int ∗data)
- int sendPacket (unsigned char ∗cmd, unsigned char ∗data) const
- int receivePacket (unsigned char ∗cmd, unsigned int ∗data)

8.11.1 Detaljeret beskrivelse

Forfatter

Victor Busk (201409557@post.au.dk)

Defineret på linje 27 i filen Semesterprojekt3/spiapi.h.

8.11.2 Dokumentation af konstruktører og destruktører

8.11.2.1 SPIapi ( )

8.11.2.2 SPIapi ( )

8.11.3 Dokumentation af medlemsfunktioner

8.11.3.1 int getPacket (unsigned char * *cmd*, unsigned int * *value*)

8.11.3.2 int getPacket (unsigned char * *cmd*, unsigned int * *value*)

8.11.3.3 int receivePacket (unsigned char * *cmd*, unsigned int * *data*) [private]

8.11.3.4 int receivePacket (unsigned char * *cmd*, unsigned int * *data*) [private]

8.11.3.5 int sendPacket (unsigned char * *cmd*, unsigned char * *data*) const [private]

8.11.3.6 int sendPacket (const unsigned char * *cmd*, unsigned char * *data*) const [private]

8.11.3.7 int setPacket (unsigned char * *cmd*, unsigned char * *value*) const

8.11.3.8 int setPacket (const unsigned char * *cmd*, unsigned char * *value*) const

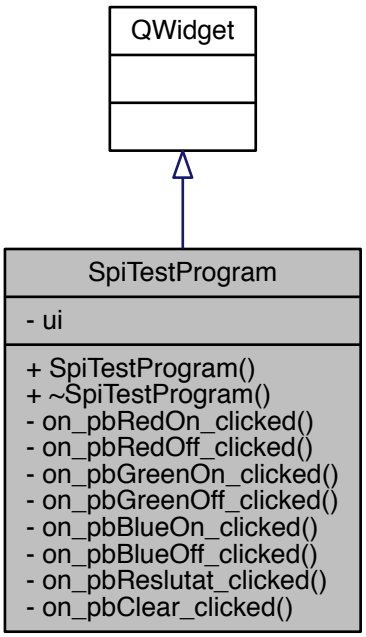
Dokumentationen for denne klasse blev genereret ud fra filen:

- Semesterprojekt3/spiapi.h

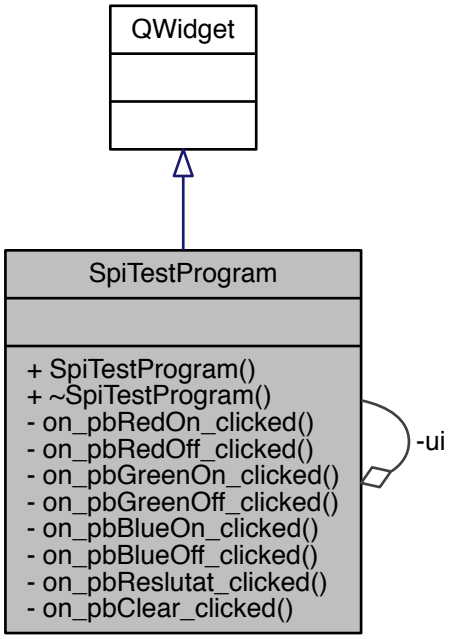
8.12 SpiTestProgram Klasse-reference

`#include <spitestprogram.h>`

Stamtræ for SpiTestProgram:



Samarbejdsdiagram for SpiTestProgram:



Offentlige metoder

- SpiTestProgram (QWidget *parent=0)
- ~SpiTestProgram ()

Private slots

- void on_pbRedOn_clicked ()
- void on_pbRedOff_clicked ()
- void on_pbGreenOn_clicked ()
- void on_pbGreenOff_clicked ()
- void on_pbBlueOn_clicked ()
- void on_pbBlueOff_clicked ()
- void on_pbReslutat_clicked ()
- void on_pbClear_clicked ()

Private attributter

- Ui::SpiTestProgram * ui

8.12.1 Detaljeret beskrivelse

Defineret på linje 12 i filen spitestprogram.h.

8.12.2 Dokumentation af konstruktører og destruktører

8.12.2.1 SpiTestProgram (QWidget ∗ *parent* = 0) [explicit]

8.12.2.2 ∼SpiTestProgram ( )

8.12.3 Dokumentation af medlemsfunktioner

8.12.3.1 void on_pbBlueOff_clicked ( ) [private], [slot]

8.12.3.2 void on_pbBlueOn_clicked ( ) [private], [slot]

8.12.3.3 void on_pbClear_clicked ( ) [private], [slot]

8.12.3.4 void on_pbGreenOff_clicked ( ) [private], [slot]

8.12.3.5 void on_pbGreenOn_clicked ( ) [private], [slot]

8.12.3.6 void on_pbRedOff_clicked ( ) [private], [slot]

8.12.3.7 void on_pbRedOn_clicked ( ) [private], [slot]

8.12.3.8 void on_pbReslutat_clicked ( ) [private], [slot]

8.12.4 Felt-dokumentation

8.12.4.1 Ui::SpiTestProgram∗ ui [private]

Defineret på linje 31 i filen spitestprogram.h.

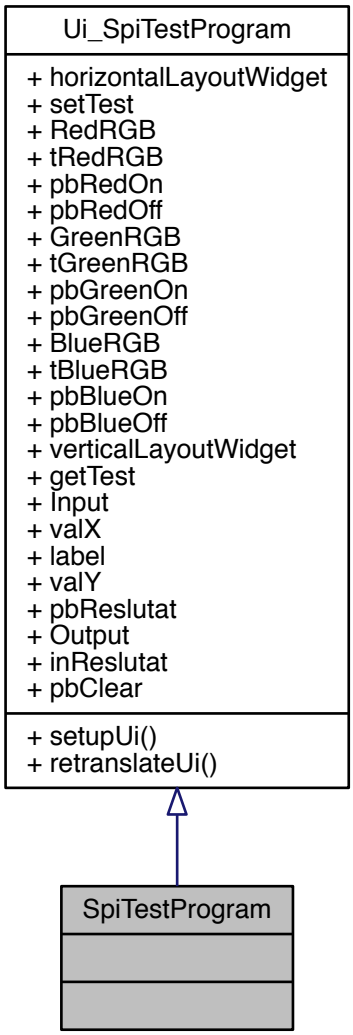
Dokumentationen for denne klasse blev genereret ud fra filen:

- spitestprogram.h

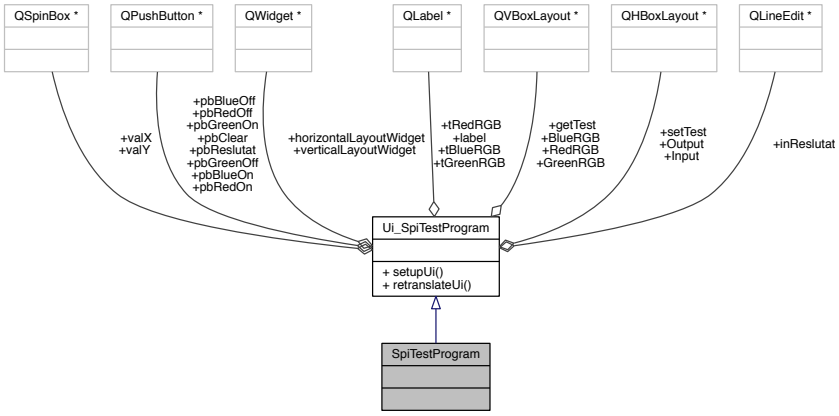
8.13 SpiTestProgram Klasse-reference

```
#include <ui_spitestprogram.h>
```

Stamtræ for SpiTestProgram:



Samarbejdsdiagram for SpiTestProgram:



Offentlige metoder

- void setupUi (QWidget *SpiTestProgram)
- void retranslateUi (QWidget *SpiTestProgram)

Datafelter

- QWidget * horizontalLayoutWidget
- QHBoxLayout * setTest
- QVBoxLayout * RedRGB
- QLabel * tRedRGB
- QPushButton * pbRedOn
- QPushButton * pbRedOff
- QVBoxLayout * GreenRGB
- QLabel * tGreenRGB
- QPushButton * pbGreenOn
- QPushButton * pbGreenOff
- QVBoxLayout * BlueRGB
- QLabel * tBlueRGB
- QPushButton * pbBlueOn
- QPushButton * pbBlueOff
- QWidget * verticalLayoutWidget
- QVBoxLayout * getTest
- QHBoxLayout * Input
- QSpinBox * valX
- QLabel * label
- QSpinBox * valY
- QPushButton * pbReslutat
- QHBoxLayout * Output
- QLineEdit * inReslutat
- QPushButton * pbClear

8.13.1 Detaljeret beskrivelse

Defineret på linje 234 i filen ui_spitestprogram.h.

8.13.2 Dokumentation af medlemsfunktioner

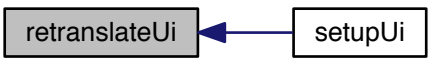
8.13.2.1 void retranslateUi (QWidget * *SpiTestProgram*) [inline], [inherited]

Defineret på linje 214 i filen ui_spitestprogram.h.

Refereret til af Ui_SpiTestProgram::setupUi().

```
215     {
216         tRedRGB->setText(QApplication::translate("SpiTestProgram", "Red RGB", 0,
      QApplication::UnicodeUTF8));
217         pbRedOn->setText(QApplication::translate("SpiTestProgram", "On", 0,
      QApplication::UnicodeUTF8));
218         pbRedOff->setText(QApplication::translate("SpiTestProgram", "Off", 0,
      QApplication::UnicodeUTF8));
219         tGreenRGB->setText(QApplication::translate("SpiTestProgram", "Green RGB", 0,
      QApplication::UnicodeUTF8));
220         pbGreenOn->setText(QApplication::translate("SpiTestProgram", "On", 0,
      QApplication::UnicodeUTF8));
221         pbGreenOff->setText(QApplication::translate("SpiTestProgram", "Off", 0,
      QApplication::UnicodeUTF8));
222         tBlueRGB->setText(QApplication::translate("SpiTestProgram", "Blue RGB", 0,
      QApplication::UnicodeUTF8));
223         pbBlueOn->setText(QApplication::translate("SpiTestProgram", "On", 0,
      QApplication::UnicodeUTF8));
224         pbBlueOff->setText(QApplication::translate("SpiTestProgram", "Off", 0,
      QApplication::UnicodeUTF8));
225         label->setText(QApplication::translate("SpiTestProgram", "x", 0, QApplication::UnicodeUTF8));
226         pbReslutat->setText(QApplication::translate("SpiTestProgram", "Resultat", 0,
      QApplication::UnicodeUTF8));
227         pbClear->setText(QApplication::translate("SpiTestProgram", "Clear", 0,
      QApplication::UnicodeUTF8));
228         Q_UNUSED(SpiTestProgram);
229     } // retranslateUi
```

Her er kalder-grafen for denne funktion:



8.13.2.2 void setupUi (QWidget * *SpiTestProgram*) [inline], [inherited]

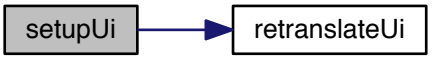
Defineret på linje 55 i filen ui_spitestprogram.h.

Indeholder referencer til Ui_SpiTestProgram::retranslateUi().

```
56      {
57          if (SpiTestProgram->objectName().isEmpty())
58              SpiTestProgram->setObjectName(QString::fromUtf8("SpiTestProgram"));
59          SpiTestProgram->resize(480, 272);
60          QSizePolicy sizePolicy(QSizePolicy::Fixed, QSizePolicy::Fixed);
61          sizePolicy.setHorizontalStretch(0);
62          sizePolicy.setVerticalStretch(0);
63          sizePolicy.setHeightForWidth(SpiTestProgram->sizePolicy().hasHeightForWidth());
64          SpiTestProgram->setSizePolicy(sizePolicy);
65          SpiTestProgram->setMinimumSize(QSize(480, 272));
66          SpiTestProgram->setMaximumSize(QSize(480, 272));
67          horizontalLayoutWidget = new QWidget(SpiTestProgram);
68          horizontalLayoutWidget->setObjectName(QString::fromUtf8("
    horizontalLayoutWidget"));
69          horizontalLayoutWidget->setGeometry(QRect(9, 9, 461, 131));
70          setTest = new QHBoxLayout(horizontalLayoutWidget);
71          setTest->setSpacing(6);
72          setTest->setContentsMargins(11, 11, 11, 11);
73          setTest->setObjectName(QString::fromUtf8("setTest"));
74          setTest->setContentsMargins(0, 0, 0, 0);
75          RedRGB = new QVBoxLayout();
76          RedRGB->setSpacing(6);
77          RedRGB->setObjectName(QString::fromUtf8("RedRGB"));
78          tRedRGB = new QLabel(horizontalLayoutWidget);
79          tRedRGB->setObjectName(QString::fromUtf8("tRedRGB"));
80          tRedRGB->setMaximumSize(QSize(272, 30));
81          tRedRGB->setAlignment(Qt::AlignCenter);
82
83          RedRGB->addWidget(tRedRGB);
84
85          pbRedOn = new QPushButton(horizontalLayoutWidget);
86          pbRedOn->setObjectName(QString::fromUtf8("pbRedOn"));
87          pbRedOn->setMaximumSize(QSize(160, 30));
88
89          RedRGB->addWidget(pbRedOn);
90
91          pbRedOff = new QPushButton(horizontalLayoutWidget);
92          pbRedOff->setObjectName(QString::fromUtf8("pbRedOff"));
93          pbRedOff->setMaximumSize(QSize(160, 30));
94
95          RedRGB->addWidget(pbRedOff);
96
97
98          setTest->addLayout(RedRGB);
99
100         GreenRGB = new QVBoxLayout();
101         GreenRGB->setSpacing(6);
102         GreenRGB->setObjectName(QString::fromUtf8("GreenRGB"));
103         tGreenRGB = new QLabel(horizontalLayoutWidget);
104         tGreenRGB->setObjectName(QString::fromUtf8("tGreenRGB"));
105         tGreenRGB->setMaximumSize(QSize(160, 30));
106         tGreenRGB->setAlignment(Qt::AlignCenter);
107
108         GreenRGB->addWidget(tGreenRGB);
109
110         pbGreenOn = new QPushButton(horizontalLayoutWidget);
111         pbGreenOn->setObjectName(QString::fromUtf8("pbGreenOn"));
112         pbGreenOn->setMaximumSize(QSize(160, 30));
113
114         GreenRGB->addWidget(pbGreenOn);
115
116         pbGreenOff = new QPushButton(horizontalLayoutWidget);
117         pbGreenOff->setObjectName(QString::fromUtf8("pbGreenOff"));
118         pbGreenOff->setMaximumSize(QSize(160, 30));
119
120         GreenRGB->addWidget(pbGreenOff);
121
122
123         setTest->addLayout(GreenRGB);
124
125         BlueRGB = new QVBoxLayout();
126         BlueRGB->setSpacing(6);
127         BlueRGB->setObjectName(QString::fromUtf8("BlueRGB"));
128         tBlueRGB = new QLabel(horizontalLayoutWidget);
129         tBlueRGB->setObjectName(QString::fromUtf8("tBlueRGB"));
130         tBlueRGB->setMaximumSize(QSize(160, 30));
131         tBlueRGB->setAlignment(Qt::AlignCenter);
132
133         BlueRGB->addWidget(tBlueRGB);
134
135         pbBlueOn = new QPushButton(horizontalLayoutWidget);
136         pbBlueOn->setObjectName(QString::fromUtf8("pbBlueOn"));
137         pbBlueOn->setMaximumSize(QSize(160, 30));
138
139         BlueRGB->addWidget(pbBlueOn);
140
141         pbBlueOff = new QPushButton(horizontalLayoutWidget);
```

```
142         pbBlueOff->setObjectName(QString::fromUtf8("pbBlueOff"));
143         pbBlueOff->setMaximumSize(QSize(160, 30));
144 
145         BlueRGB->addWidget(pbBlueOff);
146 
147 
148         setTest->addLayout(BlueRGB);
149 
150         verticalLayoutWidget = new QWidget(SpiTestProgram);
151         verticalLayoutWidget->setObjectName(QString::fromUtf8("verticalLayoutWidget"));
152         verticalLayoutWidget->setGeometry(QRect(10, 150, 461, 111));
153         getTest = new QVBoxLayout(verticalLayoutWidget);
154         getTest->setSpacing(6);
155         getTest->setContentsMargins(11, 11, 11, 11);
156         getTest->setObjectName(QString::fromUtf8("getTest"));
157         getTest->setContentsMargins(0, 0, 0, 0);
158         Input = new QHBoxLayout();
159         Input->setSpacing(6);
160         Input->setObjectName(QString::fromUtf8("Input"));
161         valX = new QSpinBox(verticalLayoutWidget);
162         valX->setObjectName(QString::fromUtf8("valX"));
163         valX->setMaximumSize(QSize(160, 30));
164 
165         Input->addWidget(valX);
166 
167         label = new QLabel(verticalLayoutWidget);
168         label->setObjectName(QString::fromUtf8("label"));
169         label->setMaximumSize(QSize(20, 30));
170         label->setAlignment(Qt::AlignCenter);
171 
172         Input->addWidget(label);
173 
174         valY = new QSpinBox(verticalLayoutWidget);
175         valY->setObjectName(QString::fromUtf8("valY"));
176         valY->setMaximumSize(QSize(160, 30));
177 
178         Input->addWidget(valY);
179 
180         pbReslutat = new QPushButton(verticalLayoutWidget);
181         pbReslutat->setObjectName(QString::fromUtf8("pbReslutat"));
182         pbReslutat->setMaximumSize(QSize(160, 30));
183 
184         Input->addWidget(pbReslutat);
185 
186 
187         getTest->addLayout(Input);
188 
189         Output = new QHBoxLayout();
190         Output->setSpacing(6);
191         Output->setObjectName(QString::fromUtf8("Output"));
192         inReslutat = new QLineEdit(verticalLayoutWidget);
193         inReslutat->setObjectName(QString::fromUtf8("inReslutat"));
194         inReslutat->setMaximumSize(QSize(340, 30));
195         inReslutat->setAlignment(Qt::AlignCenter);
196 
197         Output->addWidget(inReslutat);
198 
199         pbClear = new QPushButton(verticalLayoutWidget);
200         pbClear->setObjectName(QString::fromUtf8("pbClear"));
201         pbClear->setMaximumSize(QSize(160, 30));
202 
203         Output->addWidget(pbClear);
204 
205 
206         getTest->addLayout(Output);
207 
208 
209         retranslateUi(SpiTestProgram);
210 
211         QMetaObject::connectSlotsByName(SpiTestProgram);
212     } // setupUi
```

Her er kald-grafen for denne funktion:



8.13.3 Felt-dokumentation

8.13.3.1 QVBoxLayout* BlueRGB [inherited]

Defineret på linje 40 i filen ui_spitestprogram.h.

8.13.3.2 QVBoxLayout* getTest [inherited]

Defineret på linje 45 i filen ui_spitestprogram.h.

8.13.3.3 QVBoxLayout* GreenRGB [inherited]

Defineret på linje 36 i filen ui_spitestprogram.h.

8.13.3.4 QWidget* horizontalLayoutWidget [inherited]

Defineret på linje 30 i filen ui_spitestprogram.h.

8.13.3.5 QHBoxLayout* Input [inherited]

Defineret på linje 46 i filen ui_spitestprogram.h.

8.13.3.6 QLineEdit* inReslutat [inherited]

Defineret på linje 52 i filen ui_spitestprogram.h.

8.13.3.7 QLabel* label [inherited]

Defineret på linje 48 i filen ui_spitestprogram.h.

8.13.3.8 QHBoxLayout* Output [inherited]

Defineret på linje 51 i filen ui_spitestprogram.h.

8.13.3.9 QPushButton* pbBlueOff [inherited]

Defineret på linje 43 i filen ui_spitestprogram.h.

8.13.3.10 QPushButton* pbBlueOn [inherited]

Defineret på linje 42 i filen ui_spitestprogram.h.

8.13.3.11 QPushButton* pbClear [inherited]

Defineret på linje 53 i filen ui_spitestprogram.h.

8.13.3.12 QPushButton* pbGreenOff [inherited]

Defineret på linje 39 i filen ui_spitestprogram.h.

8.13.3.13 QPushButton* pbGreenOn [inherited]

Defineret på linje 38 i filen ui_spitestprogram.h.

8.13.3.14 QPushButton* pbRedOff [inherited]

Defineret på linje 35 i filen ui_spitestprogram.h.

8.13.3.15 QPushButton* pbRedOn [inherited]

Defineret på linje 34 i filen ui_spitestprogram.h.

8.13.3.16 QPushButton* pbReslutat [inherited]

Defineret på linje 50 i filen ui_spitestprogram.h.

8.13.3.17 QVBoxLayout* RedRGB [inherited]

Defineret på linje 32 i filen ui_spitestprogram.h.

8.13.3.18 QHBoxLayout* setTest [inherited]

Defineret på linje 31 i filen ui_spitestprogram.h.

8.13.3.19 QLabel* tBlueRGB [inherited]

Defineret på linje 41 i filen ui_spitestprogram.h.

8.13.3.20 QLabel* tGreenRGB [inherited]

Defineret på linje 37 i filen ui_spitestprogram.h.

8.13.3.21 QLabel* tRedRGB [inherited]

Defineret på linje 33 i filen ui_spitestprogram.h.

8.13.3.22 QSpinBox* valX [inherited]

Defineret på linje 47 i filen ui_spitestprogram.h.

8.13.3.23 QSpinBox* valY [inherited]

Defineret på linje 49 i filen ui_spitestprogram.h.

8.13.3.24 QWidget* verticalLayoutWidget [inherited]

Defineret på linje 44 i filen ui_spitestprogram.h.

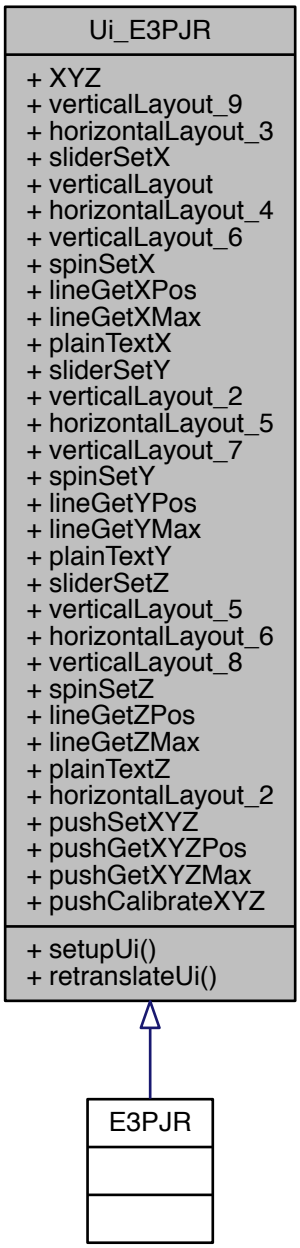
Dokumentationen for denne klasse blev genereret ud fra filen:

- ui_spitestprogram.h

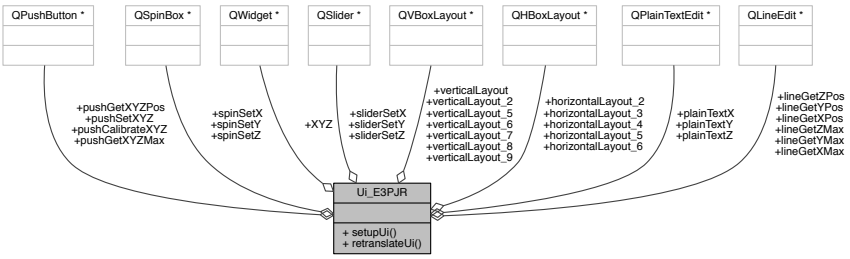
8.14 Ui_E3PJR Klasse-reference

```
#include <ui_e3pjr.h>
```

Stamtræ for Ui_E3PJR:



Samarbejdsdiagram for Ui_E3PJR:



Offentlige metoder

- void setupUi (QTabWidget ∗E3PJR)
- void retranslateUi (QTabWidget ∗E3PJR)

Datafelter

- QWidget ∗ XYZ
- QVBoxLayout ∗ verticalLayout_9
- QHBoxLayout ∗ horizontalLayout_3
- QSlider ∗ sliderSetX
- QVBoxLayout ∗ verticalLayout
- QHBoxLayout ∗ horizontalLayout_4
- QVBoxLayout ∗ verticalLayout_6
- QSpinBox ∗ spinSetX
- QLineEdit ∗ lineGetXPos
- QLineEdit ∗ lineGetXMax
- QPlainTextEdit ∗ plainTextX
- QSlider ∗ sliderSetY
- QVBoxLayout ∗ verticalLayout_2
- QHBoxLayout ∗ horizontalLayout_5
- QVBoxLayout ∗ verticalLayout_7
- QSpinBox ∗ spinSetY
- QLineEdit ∗ lineGetYPos
- QLineEdit ∗ lineGetYMax
- QPlainTextEdit ∗ plainTextY
- QSlider ∗ sliderSetZ
- QVBoxLayout ∗ verticalLayout_5
- QHBoxLayout ∗ horizontalLayout_6
- QVBoxLayout ∗ verticalLayout_8
- QSpinBox ∗ spinSetZ
- QLineEdit ∗ lineGetZPos
- QLineEdit ∗ lineGetZMax
- QPlainTextEdit ∗ plainTextZ
- QHBoxLayout ∗ horizontalLayout_2
- QPushButton ∗ pushSetXYZ
- QPushButton ∗ pushGetXYZPos
- QPushButton ∗ pushGetXYZMax
- QPushButton ∗ pushCalibrateXYZ

8.14.1 Detaljeret beskrivelse

Defineret på linje 29 i filen ui_e3pjr.h.

8.14.2 Dokumentation af medlemsfunktioner

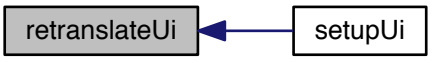
8.14.2.1 void retranslateUi (QTabWidget * *E3PJR*) [inline]

Defineret på linje 281 i filen ui_e3pjr.h.

Refereret til af setupUi().

```
282     {
283         E3PJR->setWindowTitle(QApplication::translate("E3PJR", "TabWidget", 0, QApplication::UnicodeUTF8));
284         lineGetXPos->setPlaceholderText(QApplication::translate("E3PJR", "xPos", 0,
    QApplication::UnicodeUTF8));
285         lineGetXMax->setPlaceholderText(QApplication::translate("E3PJR", "xMax", 0,
    QApplication::UnicodeUTF8));
286         lineGetYPos->setPlaceholderText(QApplication::translate("E3PJR", "yPos", 0,
    QApplication::UnicodeUTF8));
287         lineGetYMax->setPlaceholderText(QApplication::translate("E3PJR", "yMax", 0,
    QApplication::UnicodeUTF8));
288         lineGetZPos->setPlaceholderText(QApplication::translate("E3PJR", "zPos", 0,
    QApplication::UnicodeUTF8));
289         lineGetZMax->setPlaceholderText(QApplication::translate("E3PJR", "zMax", 0,
    QApplication::UnicodeUTF8));
290         pushSetXYZ->setText(QApplication::translate("E3PJR", "SetXYZPos", 0,
    QApplication::UnicodeUTF8));
291         pushGetXYZPos->setText(QApplication::translate("E3PJR", "GetXYZPos", 0,
    QApplication::UnicodeUTF8));
292         pushGetXYZMax->setText(QApplication::translate("E3PJR", "GetXYZMax", 0,
    QApplication::UnicodeUTF8));
293         pushCalibrateXYZ->setText(QApplication::translate("E3PJR", "CalibrateXYZ", 0,
    QApplication::UnicodeUTF8));
294         E3PJR->setTabText(E3PJR->indexOf(XYZ), QApplication::translate("E3PJR", "XYZ", 0,
    QApplication::UnicodeUTF8));
295     } // retranslateUi
```

Her er kalder-grafen for denne funktion:



8.14.2.2 void setupUi (QTabWidget * *E3PJR*) [inline]

Defineret på linje 65 i filen ui_e3pjr.h.

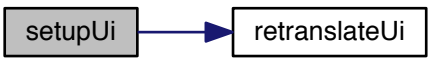
Indeholder referencer til retranslateUi().

```
66      {
67          if (E3PJR->objectName().isEmpty())
68              E3PJR->setObjectName(QString::fromUtf8("E3PJR"));
69          E3PJR->resize(480, 278);
70          XYZ = new QWidget();
71          XYZ->setObjectName(QString::fromUtf8("XYZ"));
72          verticalLayout_9 = new QVBoxLayout(XYZ);
73          verticalLayout_9->setObjectName(QString::fromUtf8("verticalLayout_9"));
74          horizontalLayout_3 = new QHBoxLayout();
75          horizontalLayout_3->setObjectName(QString::fromUtf8("horizontalLayout_3"));
76          sliderSetX = new QSlider(XYZ);
77          sliderSetX->setObjectName(QString::fromUtf8("sliderSetX"));
78          sliderSetX->setMaximum(255);
79          sliderSetX->setSingleStep(5);
80          sliderSetX->setPageStep(15);
81          sliderSetX->setOrientation(Qt::Vertical);
82
83          horizontalLayout_3->addWidget(sliderSetX);
84
85          verticalLayout = new QVBoxLayout();
86          verticalLayout->setObjectName(QString::fromUtf8("verticalLayout"));
87          horizontalLayout_4 = new QHBoxLayout();
88          horizontalLayout_4->setObjectName(QString::fromUtf8("horizontalLayout_4"));
89          verticalLayout_6 = new QVBoxLayout();
90          verticalLayout_6->setObjectName(QString::fromUtf8("verticalLayout_6"));
91          spinSetX = new QSpinBox(XYZ);
92          spinSetX->setObjectName(QString::fromUtf8("spinSetX"));
93          spinSetX->setAlignment(Qt::AlignCenter);
94          spinSetX->setMaximum(255);
95          spinSetX->setSingleStep(5);
96
97          verticalLayout_6->addWidget(spinSetX);
98
99          lineGetXPos = new QLineEdit(XYZ);
100          lineGetXPos->setObjectName(QString::fromUtf8("lineGetXPos"));
101          lineGetXPos->setAlignment(Qt::AlignCenter);
102
103          verticalLayout_6->addWidget(lineGetXPos);
104
105          lineGetXMax = new QLineEdit(XYZ);
106          lineGetXMax->setObjectName(QString::fromUtf8("lineGetXMax"));
107          lineGetXMax->setAlignment(Qt::AlignCenter);
108
109          verticalLayout_6->addWidget(lineGetXMax);
110
111
112          horizontalLayout_4->addLayout(verticalLayout_6);
113
114
115          verticalLayout->addLayout(horizontalLayout_4);
116
117          plainTextX = new QPlainTextEdit(XYZ);
118          plainTextX->setObjectName(QString::fromUtf8("plainTextX"));
119          plainTextX->setVerticalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
120          plainTextX->setHorizontalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
121          plainTextX->setUndoRedoEnabled(false);
122          plainTextX->setReadOnly(true);
123          plainTextX->setOverwriteMode(false);
124
125          verticalLayout->addWidget(plainTextX);
126
127
128          horizontalLayout_3->addLayout(verticalLayout);
129
130          sliderSetY = new QSlider(XYZ);
131          sliderSetY->setObjectName(QString::fromUtf8("sliderSetY"));
132          sliderSetY->setMaximum(255);
133          sliderSetY->setSingleStep(5);
134          sliderSetY->setPageStep(15);
135          sliderSetY->setOrientation(Qt::Vertical);
136
137          horizontalLayout_3->addWidget(sliderSetY);
138
139          verticalLayout_2 = new QVBoxLayout();
140          verticalLayout_2->setObjectName(QString::fromUtf8("verticalLayout_2"));
141          horizontalLayout_5 = new QHBoxLayout();
142          horizontalLayout_5->setObjectName(QString::fromUtf8("horizontalLayout_5"));
143          verticalLayout_7 = new QVBoxLayout();
144          verticalLayout_7->setObjectName(QString::fromUtf8("verticalLayout_7"));
145          spinSetY = new QSpinBox(XYZ);
146          spinSetY->setObjectName(QString::fromUtf8("spinSetY"));
147          spinSetY->setAlignment(Qt::AlignCenter);
148          spinSetY->setMaximum(255);
149          spinSetY->setSingleStep(5);
150
151          verticalLayout_7->addWidget(spinSetY);
152
```

```
153         lineGetYPos = new QLineEdit(XYZ);
154         lineGetYPos->setObjectName(QString::fromUtf8("lineGetYPos"));
155         lineGetYPos->setAlignment(Qt::AlignCenter);
156 
157         verticalLayout_7->addWidget(lineGetYPos);
158 
159         lineGetYMax = new QLineEdit(XYZ);
160         lineGetYMax->setObjectName(QString::fromUtf8("lineGetYMax"));
161         lineGetYMax->setAlignment(Qt::AlignCenter);
162 
163         verticalLayout_7->addWidget(lineGetYMax);
164 
165 
166         horizontalLayout_5->addLayout(verticalLayout_7);
167 
168 
169         verticalLayout_2->addLayout(horizontalLayout_5);
170 
171         plainTextY = new QPlainTextEdit(XYZ);
172         plainTextY->setObjectName(QString::fromUtf8("plainTextY"));
173         plainTextY->setVerticalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
174         plainTextY->setHorizontalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
175         plainTextY->setUndoRedoEnabled(false);
176         plainTextY->setReadOnly(true);
177 
178         verticalLayout_2->addWidget(plainTextY);
179 
180 
181         horizontalLayout_3->addLayout(verticalLayout_2);
182 
183         sliderSetZ = new QSlider(XYZ);
184         sliderSetZ->setObjectName(QString::fromUtf8("sliderSetZ"));
185         sliderSetZ->setMaximum(255);
186         sliderSetZ->setSingleStep(5);
187         sliderSetZ->setPageStep(15);
188         sliderSetZ->setOrientation(Qt::Vertical);
189 
190         horizontalLayout_3->addWidget(sliderSetZ);
191 
192         verticalLayout_5 = new QVBoxLayout();
193         verticalLayout_5->setObjectName(QString::fromUtf8("verticalLayout_5"));
194         horizontalLayout_6 = new QHBoxLayout();
195         horizontalLayout_6->setObjectName(QString::fromUtf8("horizontalLayout_6"));
196         verticalLayout_8 = new QVBoxLayout();
197         verticalLayout_8->setObjectName(QString::fromUtf8("verticalLayout_8"));
198         spinSetZ = new QSpinBox(XYZ);
199         spinSetZ->setObjectName(QString::fromUtf8("spinSetZ"));
200         spinSetZ->setAlignment(Qt::AlignCenter);
201         spinSetZ->setMaximum(255);
202         spinSetZ->setSingleStep(5);
203 
204         verticalLayout_8->addWidget(spinSetZ);
205 
206         lineGetZPos = new QLineEdit(XYZ);
207         lineGetZPos->setObjectName(QString::fromUtf8("lineGetZPos"));
208         lineGetZPos->setAlignment(Qt::AlignCenter);
209 
210         verticalLayout_8->addWidget(lineGetZPos);
211 
212         lineGetZMax = new QLineEdit(XYZ);
213         lineGetZMax->setObjectName(QString::fromUtf8("lineGetZMax"));
214         lineGetZMax->setAlignment(Qt::AlignCenter);
215 
216         verticalLayout_8->addWidget(lineGetZMax);
217 
218 
219         horizontalLayout_6->addLayout(verticalLayout_8);
220 
221 
222         verticalLayout_5->addLayout(horizontalLayout_6);
223 
224         plainTextZ = new QPlainTextEdit(XYZ);
225         plainTextZ->setObjectName(QString::fromUtf8("plainTextZ"));
226         plainTextZ->setVerticalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
227         plainTextZ->setHorizontalScrollBarPolicy(Qt::ScrollBarAlwaysOff);
228         plainTextZ->setUndoRedoEnabled(false);
229         plainTextZ->setReadOnly(true);
230 
231         verticalLayout_5->addWidget(plainTextZ);
232 
233 
234         horizontalLayout_3->addLayout(verticalLayout_5);
235 
236 
237         verticalLayout_9->addLayout(horizontalLayout_3);
238 
239         horizontalLayout_2 = new QHBoxLayout();
```

```
240         horizontalLayout_2->setObjectName(QString::fromUtf8("horizontalLayout_2"));
241         pushSetXYZ = new QPushButton(XYZ);
242         pushSetXYZ->setObjectName(QString::fromUtf8("pushSetXYZ"));
243 
244         horizontalLayout_2->addWidget(pushSetXYZ);
245 
246         pushGetXYZPos = new QPushButton(XYZ);
247         pushGetXYZPos->setObjectName(QString::fromUtf8("pushGetXYZPos"));
248 
249         horizontalLayout_2->addWidget(pushGetXYZPos);
250 
251         pushGetXYZMax = new QPushButton(XYZ);
252         pushGetXYZMax->setObjectName(QString::fromUtf8("pushGetXYZMax"));
253 
254         horizontalLayout_2->addWidget(pushGetXYZMax);
255 
256         pushCalibrateXYZ = new QPushButton(XYZ);
257         pushCalibrateXYZ->setObjectName(QString::fromUtf8("pushCalibrateXYZ"));
258 
259         horizontalLayout_2->addWidget(pushCalibrateXYZ);
260 
261 
262         verticalLayout_9->addLayout(horizontalLayout_2);
263 
264         E3PJR->addTab(XYZ, QString());
265         QWidget::setTabOrder(spinSetY, spinSetZ);
266 
267         retranslateUi(E3PJR);
268         QObject::connect(sliderSetY, SIGNAL(valueChanged(int)),
    spinSetY, SLOT(setValue(int)));
269         QObject::connect(spinSetY, SIGNAL(valueChanged(int)), sliderSetY, SLOT(setValue(
    int)));
270         QObject::connect(sliderSetZ, SIGNAL(valueChanged(int)),
    spinSetZ, SLOT(setValue(int)));
271         QObject::connect(spinSetZ, SIGNAL(valueChanged(int)), sliderSetZ, SLOT(setValue(
    int)));
272         QObject::connect(sliderSetX, SIGNAL(valueChanged(int)),
    spinSetX, SLOT(setValue(int)));
273         QObject::connect(spinSetX, SIGNAL(valueChanged(int)), sliderSetX, SLOT(setValue(
    int)));
274 
275         E3PJR->setCurrentIndex(0);
276 
277 
278         QMetaObject::connectSlotsByName(E3PJR);
279     } // setupUi
```

Her er kald-grafen for denne funktion:



8.14.3 Felt-dokumentation

8.14.3.1 QHBoxLayout* horizontalLayout_2

Defineret på linje 59 i filen ui_e3pjr.h.

8.14.3.2 QHBoxLayout* horizontalLayout_3

Defineret på linje 34 i filen ui_e3pjr.h.

8.14.3.3 QHBoxLayout* horizontalLayout_4

Defineret på linje 37 i filen ui_e3pjr.h.

8.14.3.4 QHBoxLayout* horizontalLayout_5

Defineret på linje 45 i filen ui_e3pjr.h.

8.14.3.5 QHBoxLayout* horizontalLayout_6

Defineret på linje 53 i filen ui_e3pjr.h.

8.14.3.6 QLineEdit* lineGetXMax

Defineret på linje 41 i filen ui_e3pjr.h.

8.14.3.7 QLineEdit* lineGetXPos

Defineret på linje 40 i filen ui_e3pjr.h.

8.14.3.8 QLineEdit* lineGetYMax

Defineret på linje 49 i filen ui_e3pjr.h.

8.14.3.9 QLineEdit* lineGetYPos

Defineret på linje 48 i filen ui_e3pjr.h.

8.14.3.10 QLineEdit* lineGetZMax

Defineret på linje 57 i filen ui_e3pjr.h.

8.14.3.11 QLineEdit* lineGetZPos

Defineret på linje 56 i filen ui_e3pjr.h.

8.14.3.12 QPlainTextEdit* plainTextX

Defineret på linje 42 i filen ui_e3pjr.h.

8.14.3.13 QPlainTextEdit* plainTextY

Defineret på linje 50 i filen ui_e3pjr.h.

8.14.3.14 QPlainTextEdit* plainTextZ

Defineret på linje 58 i filen ui_e3pjr.h.

8.14.3.15 QPushButton* pushCalibrateXYZ

Defineret på linje 63 i filen ui_e3pjr.h.

8.14.3.16 QPushButton* pushGetXYZMax

Defineret på linje 62 i filen ui_e3pjr.h.

8.14.3.17 QPushButton* pushGetXYZPos

Defineret på linje 61 i filen ui_e3pjr.h.

8.14.3.18 QPushButton* pushSetXYZ

Defineret på linje 60 i filen ui_e3pjr.h.

8.14.3.19 QSlider* sliderSetX

Defineret på linje 35 i filen ui_e3pjr.h.

8.14.3.20 QSlider* sliderSetY

Defineret på linje 43 i filen ui_e3pjr.h.

8.14.3.21 QSlider* sliderSetZ

Defineret på linje 51 i filen ui_e3pjr.h.

8.14.3.22 QSpinBox* spinSetX

Defineret på linje 39 i filen ui_e3pjr.h.

8.14.3.23 QSpinBox* spinSetY

Defineret på linje 47 i filen ui_e3pjr.h.

8.14.3.24 QSpinBox* spinSetZ

Defineret på linje 55 i filen ui_e3pjr.h.

8.14.3.25 QVBoxLayout* verticalLayout

Defineret på linje 36 i filen ui_e3pjr.h.

8.14.3.26 QVBoxLayout* verticalLayout_2

Defineret på linje 44 i filen ui_e3pjr.h.

8.14.3.27 QVBoxLayout* verticalLayout_5

Defineret på linje 52 i filen ui_e3pjr.h.

8.14.3.28 QVBoxLayout* verticalLayout_6

Defineret på linje 38 i filen ui_e3pjr.h.

8.14.3.29 QVBoxLayout* verticalLayout_7

Defineret på linje 46 i filen ui_e3pjr.h.

8.14.3.30 QVBoxLayout* verticalLayout_8

Defineret på linje 54 i filen ui_e3pjr.h.

8.14.3.31 QVBoxLayout* verticalLayout_9

Defineret på linje 33 i filen ui_e3pjr.h.

8.14.3.32 QWidget* XYZ

Defineret på linje 32 i filen ui_e3pjr.h.

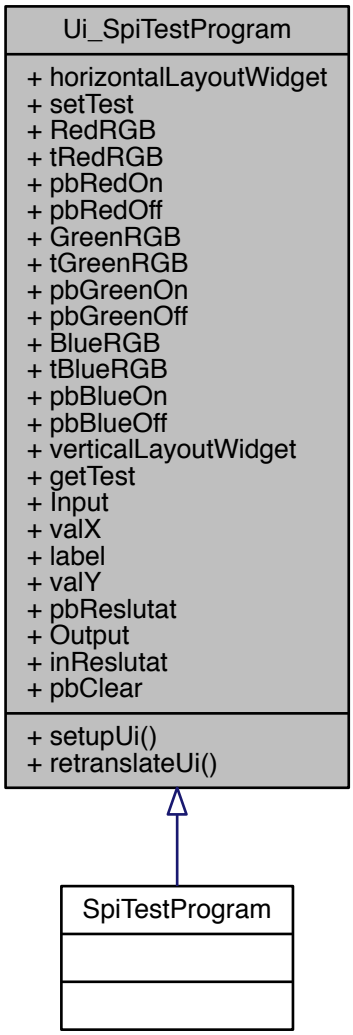
Dokumentationen for denne klasse blev genereret ud fra filen:

- ui_e3pjr.h

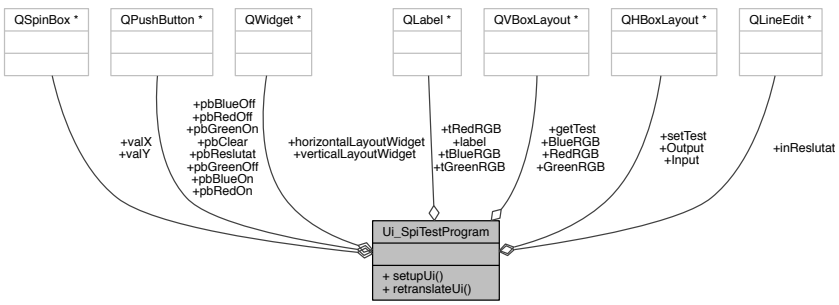
8.15 Ui_SpiTestProgram Klasse-reference

```
#include <ui_spitestprogram.h>
```

Stamtræ for Ui_SpiTestProgram:



Samarbejdsdiagram for Ui_SpiTestProgram:



Offentlige metoder

- void setupUi (QWidget ∗SpiTestProgram)
- void retranslateUi (QWidget ∗SpiTestProgram)

Datafelter

- QWidget ∗ horizontalLayoutWidget
- QHBoxLayout ∗ setTest
- QVBoxLayout ∗ RedRGB
- QLabel ∗ tRedRGB
- QPushButton ∗ pbRedOn
- QPushButton ∗ pbRedOff
- QVBoxLayout ∗ GreenRGB
- QLabel ∗ tGreenRGB
- QPushButton ∗ pbGreenOn
- QPushButton ∗ pbGreenOff
- QVBoxLayout ∗ BlueRGB
- QLabel ∗ tBlueRGB
- QPushButton ∗ pbBlueOn
- QPushButton ∗ pbBlueOff
- QWidget ∗ verticalLayoutWidget
- QVBoxLayout ∗ getTest
- QHBoxLayout ∗ Input
- QSpinBox ∗ valX
- QLabel ∗ label
- QSpinBox ∗ valY
- QPushButton ∗ pbReslutat
- QHBoxLayout ∗ Output
- QLineEdit ∗ inReslutat
- QPushButton ∗ pbClear

8.15.1 Detaljeret beskrivelse

Defineret på linje 27 i filen ui_spitestprogram.h.

8.15.2 Dokumentation af medlemsfunktioner

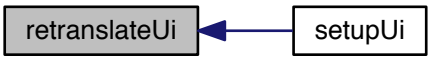
8.15.2.1 void retranslateUi (QWidget ∗ *SpiTestProgram*) [inline]

Defineret på linje 214 i filen ui_spitestprogram.h.

Refereret til af setupUi().

```
215     {
216         tRedRGB->setText(QApplication::translate("SpiTestProgram", "Red RGB", 0,
    QApplication::UnicodeUTF8));
217         pbRedOn->setText(QApplication::translate("SpiTestProgram", "On", 0,
    QApplication::UnicodeUTF8));
218         pbRedOff->setText(QApplication::translate("SpiTestProgram", "Off", 0,
    QApplication::UnicodeUTF8));
219         tGreenRGB->setText(QApplication::translate("SpiTestProgram", "Green RGB", 0,
    QApplication::UnicodeUTF8));
220         pbGreenOn->setText(QApplication::translate("SpiTestProgram", "On", 0,
    QApplication::UnicodeUTF8));
221         pbGreenOff->setText(QApplication::translate("SpiTestProgram", "Off", 0,
    QApplication::UnicodeUTF8));
222         tBlueRGB->setText(QApplication::translate("SpiTestProgram", "Blue RGB", 0,
    QApplication::UnicodeUTF8));
223         pbBlueOn->setText(QApplication::translate("SpiTestProgram", "On", 0,
    QApplication::UnicodeUTF8));
224         pbBlueOff->setText(QApplication::translate("SpiTestProgram", "Off", 0,
    QApplication::UnicodeUTF8));
225         label->setText(QApplication::translate("SpiTestProgram", "x", 0, QApplication::UnicodeUTF8));
226         pbReslutat->setText(QApplication::translate("SpiTestProgram", "Resultat", 0,
    QApplication::UnicodeUTF8));
227         pbClear->setText(QApplication::translate("SpiTestProgram", "Clear", 0,
    QApplication::UnicodeUTF8));
228         Q_UNUSED(SpiTestProgram);
229     } // retranslateUi
```

Her er kalder-grafen for denne funktion:



8.15.2.2 void setupUi (QWidget * *SpiTestProgram*) [inline]

Defineret på linje 55 i filen ui_spitestprogram.h.

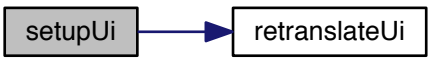
Indeholder referencer til retranslateUi().

```
56     {
57         if (SpiTestProgram->objectName().isEmpty())
58             SpiTestProgram->setObjectName(QString::fromUtf8("SpiTestProgram"));
59         SpiTestProgram->resize(480, 272);
60         QSizePolicy sizePolicy(QSizePolicy::Fixed, QSizePolicy::Fixed);
61         sizePolicy.setHorizontalStretch(0);
62         sizePolicy.setVerticalStretch(0);
63         sizePolicy.setHeightForWidth(SpiTestProgram->sizePolicy().hasHeightForWidth());
64         SpiTestProgram->setSizePolicy(sizePolicy);
65         SpiTestProgram->setMinimumSize(QSize(480, 272));
66         SpiTestProgram->setMaximumSize(QSize(480, 272));
67         horizontalLayoutWidget = new QWidget(SpiTestProgram);
68         horizontalLayoutWidget->setObjectName(QString::fromUtf8("
    horizontalLayoutWidget"));
69         horizontalLayoutWidget->setGeometry(QRect(9, 9, 461, 131));
70         setTest = new QHBoxLayout(horizontalLayoutWidget);
71         setTest->setSpacing(6);
72         setTest->setContentsMargins(11, 11, 11, 11);
73         setTest->setObjectName(QString::fromUtf8("setTest"));
74         setTest->setContentsMargins(0, 0, 0, 0);
75         RedRGB = new QVBoxLayout();
76         RedRGB->setSpacing(6);
77         RedRGB->setObjectName(QString::fromUtf8("RedRGB"));
78         tRedRGB = new QLabel(horizontalLayoutWidget);
79         tRedRGB->setObjectName(QString::fromUtf8("tRedRGB"));
80         tRedRGB->setMaximumSize(QSize(272, 30));
81         tRedRGB->setAlignment(Qt::AlignCenter);
82
```

```
83          RedRGB->addWidget(tRedRGB);
84
85          pbRedOn = new QPushButton(horizontalLayoutWidget);
86          pbRedOn->setObjectName(QString::fromUtf8("pbRedOn"));
87          pbRedOn->setMaximumSize(QSize(160, 30));
88
89          RedRGB->addWidget(pbRedOn);
90
91          pbRedOff = new QPushButton(horizontalLayoutWidget);
92          pbRedOff->setObjectName(QString::fromUtf8("pbRedOff"));
93          pbRedOff->setMaximumSize(QSize(160, 30));
94
95          RedRGB->addWidget(pbRedOff);
96
97
98          setTest->addLayout(RedRGB);
99
100          GreenRGB = new QVBoxLayout();
101          GreenRGB->setSpacing(6);
102          GreenRGB->setObjectName(QString::fromUtf8("GreenRGB"));
103          tGreenRGB = new QLabel(horizontalLayoutWidget);
104          tGreenRGB->setObjectName(QString::fromUtf8("tGreenRGB"));
105          tGreenRGB->setMaximumSize(QSize(160, 30));
106          tGreenRGB->setAlignment(Qt::AlignCenter);
107
108          GreenRGB->addWidget(tGreenRGB);
109
110          pbGreenOn = new QPushButton(horizontalLayoutWidget);
111          pbGreenOn->setObjectName(QString::fromUtf8("pbGreenOn"));
112          pbGreenOn->setMaximumSize(QSize(160, 30));
113
114          GreenRGB->addWidget(pbGreenOn);
115
116          pbGreenOff = new QPushButton(horizontalLayoutWidget);
117          pbGreenOff->setObjectName(QString::fromUtf8("pbGreenOff"));
118          pbGreenOff->setMaximumSize(QSize(160, 30));
119
120          GreenRGB->addWidget(pbGreenOff);
121
122
123          setTest->addLayout(GreenRGB);
124
125          BlueRGB = new QVBoxLayout();
126          BlueRGB->setSpacing(6);
127          BlueRGB->setObjectName(QString::fromUtf8("BlueRGB"));
128          tBlueRGB = new QLabel(horizontalLayoutWidget);
129          tBlueRGB->setObjectName(QString::fromUtf8("tBlueRGB"));
130          tBlueRGB->setMaximumSize(QSize(160, 30));
131          tBlueRGB->setAlignment(Qt::AlignCenter);
132
133          BlueRGB->addWidget(tBlueRGB);
134
135          pbBlueOn = new QPushButton(horizontalLayoutWidget);
136          pbBlueOn->setObjectName(QString::fromUtf8("pbBlueOn"));
137          pbBlueOn->setMaximumSize(QSize(160, 30));
138
139          BlueRGB->addWidget(pbBlueOn);
140
141          pbBlueOff = new QPushButton(horizontalLayoutWidget);
142          pbBlueOff->setObjectName(QString::fromUtf8("pbBlueOff"));
143          pbBlueOff->setMaximumSize(QSize(160, 30));
144
145          BlueRGB->addWidget(pbBlueOff);
146
147
148          setTest->addLayout(BlueRGB);
149
150          verticalLayoutWidget = new QWidget(SpiTestProgram);
151          verticalLayoutWidget->setObjectName(QString::fromUtf8("verticalLayoutWidget"));
152          verticalLayoutWidget->setGeometry(QRect(10, 150, 461, 111));
153          getTest = new QVBoxLayout(verticalLayoutWidget);
154          getTest->setSpacing(6);
155          getTest->setContentsMargins(11, 11, 11, 11);
156          getTest->setObjectName(QString::fromUtf8("getTest"));
157          getTest->setContentsMargins(0, 0, 0, 0);
158          Input = new QHBoxLayout();
159          Input->setSpacing(6);
160          Input->setObjectName(QString::fromUtf8("Input"));
161          valX = new QSpinBox(verticalLayoutWidget);
162          valX->setObjectName(QString::fromUtf8("valX"));
163          valX->setMaximumSize(QSize(160, 30));
164
165          Input->addWidget(valX);
166
167          label = new QLabel(verticalLayoutWidget);
168          label->setObjectName(QString::fromUtf8("label"));
169          label->setMaximumSize(QSize(20, 30));
```

```
170         label->setAlignment(Qt::AlignCenter);
171
172         Input->addWidget(label);
173
174         valY = new QSpinBox(verticalLayoutWidget);
175         valY->setObjectName(QString::fromUtf8("valY"));
176         valY->setMaximumSize(QSize(160, 30));
177
178         Input->addWidget(valY);
179
180         pbReslutat = new QPushButton(verticalLayoutWidget);
181         pbReslutat->setObjectName(QString::fromUtf8("pbReslutat"));
182         pbReslutat->setMaximumSize(QSize(160, 30));
183
184         Input->addWidget(pbReslutat);
185
186
187         getTest->addLayout(Input);
188
189         Output = new QHBoxLayout();
190         Output->setSpacing(6);
191         Output->setObjectName(QString::fromUtf8("Output"));
192         inReslutat = new QLineEdit(verticalLayoutWidget);
193         inReslutat->setObjectName(QString::fromUtf8("inReslutat"));
194         inReslutat->setMaximumSize(QSize(340, 30));
195         inReslutat->setAlignment(Qt::AlignCenter);
196
197         Output->addWidget(inReslutat);
198
199         pbClear = new QPushButton(verticalLayoutWidget);
200         pbClear->setObjectName(QString::fromUtf8("pbClear"));
201         pbClear->setMaximumSize(QSize(160, 30));
202
203         Output->addWidget(pbClear);
204
205
206         getTest->addLayout(Output);
207
208
209         retranslateUi(SpiTestProgram);
210
211         QMetaObject::connectSlotsByName(SpiTestProgram);
212     } // setupUi
```

Her er kald-grafen for denne funktion:



8.15.3 Felt-dokumentation

8.15.3.1 QVBoxLayout* BlueRGB

Defineret på linje 40 i filen ui_spitestprogram.h.

8.15.3.2 QVBoxLayout* getTest

Defineret på linje 45 i filen ui_spitestprogram.h.

8.15.3.3 QVBoxLayout* GreenRGB

Defineret på linje 36 i filen ui_spitestprogram.h.

8.15.3.4 QWidget* horizontalLayoutWidget

Defineret på linje 30 i filen ui_spitestprogram.h.

8.15.3.5 QHBoxLayout* Input

Defineret på linje 46 i filen ui_spitestprogram.h.

8.15.3.6 QLineEdit* inReslutat

Defineret på linje 52 i filen ui_spitestprogram.h.

8.15.3.7 QLabel* label

Defineret på linje 48 i filen ui_spitestprogram.h.

8.15.3.8 QHBoxLayout* Output

Defineret på linje 51 i filen ui_spitestprogram.h.

8.15.3.9 QPushButton* pbBlueOff

Defineret på linje 43 i filen ui_spitestprogram.h.

8.15.3.10 QPushButton* pbBlueOn

Defineret på linje 42 i filen ui_spitestprogram.h.

8.15.3.11 QPushButton* pbClear

Defineret på linje 53 i filen ui_spitestprogram.h.

8.15.3.12 QPushButton* pbGreenOff

Defineret på linje 39 i filen ui_spitestprogram.h.

8.15.3.13 QPushButton* pbGreenOn

Defineret på linje 38 i filen ui_spitestprogram.h.

8.15.3.14 QPushButton* pbRedOff

Defineret på linje 35 i filen ui_spitestprogram.h.

8.15.3.15 QPushButton* pbRedOn

Defineret på linje 34 i filen ui_spitestprogram.h.

8.15.3.16 QPushButton* pbReslutat

Defineret på linje 50 i filen ui_spitestprogram.h.

8.15.3.17 QVBoxLayout* RedRGB

Defineret på linje 32 i filen ui_spitestprogram.h.

8.15.3.18 QHBoxLayout* setTest

Defineret på linje 31 i filen ui_spitestprogram.h.

8.15.3.19 QLabel* tBlueRGB

Defineret på linje 41 i filen ui_spitestprogram.h.

8.15.3.20 QLabel* tGreenRGB

Defineret på linje 37 i filen ui_spitestprogram.h.

8.15.3.21 QLabel* tRedRGB

Defineret på linje 33 i filen ui_spitestprogram.h.

8.15.3.22 QSpinBox* valX

Defineret på linje 47 i filen ui_spitestprogram.h.

8.15.3.23 QSpinBox* valY

Defineret på linje 49 i filen ui_spitestprogram.h.

8.15.3.24 QWidget* verticalLayoutWidget

Defineret på linje 44 i filen ui_spitestprogram.h.

Dokumentationen for denne klasse blev genereret ud fra filen:

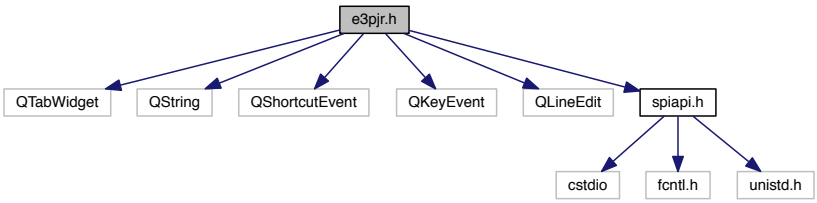
- ui_spitestprogram.h

9 Fil-dokumentation

9.1 e3pjr.h filreference

```
#include <QTabWidget>
#include <QString>
#include <QShortcutEvent>
#include <QKeyEvent>
#include <QLineEdit>
#include "spiapi.h"
```

Inklusions-afhængighedsgraf for e3pjr.h:



Datastrukturer

- class E3PJR

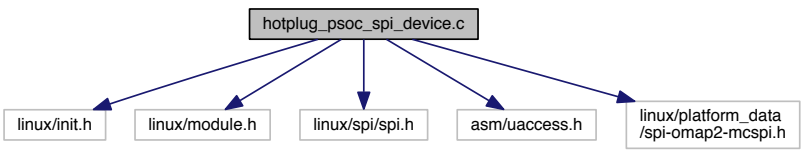
Namespaces

- Ui

9.2 hotplug_psoc_spi_device.c filreference

```
#include <linux/init.h>
#include <linux/module.h>
#include <linux/spi/spi.h>
#include <asm/uaccess.h>
#include <linux/platform_data/spi-omap2-mcspi.h>
```

Inklusions-afhængighedsgraf for hotplug_psoc_spi_device.c:



Funktioner

- MODULE_AUTHOR ("Jeppe Stærk")
- MODULE_LICENSE ("Dual BSD/GPL")
- static int hotplug_spi_init (void)
- static void hotplug_spi_exit (void)
- module_init (hotplug_spi_init)
- module_exit (hotplug_spi_exit)

Variable

- static struct spi_device ∗ slave_spi_device
- static struct omap2_mcspi_device_config mcspi_config
- static struct spi_board_info slave_spi_board_info

9.2.1 Funktions-dokumentation

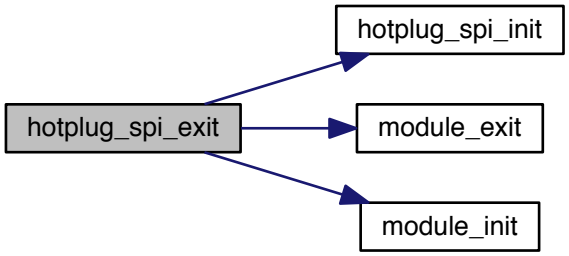
9.2.1.1 static void hotplug_spi_exit (void) [static]

Defineret på linje 67 i filen hotplug_psoc_spi_device.c.

Indeholder referencer til hotplug_spi_init(), module_exit(), module_init(), slave_spi_board_info og slave_spi_device.

```
68 {
69   printk(KERN_ALERT "Removing SPI Device: %s, bus: %i, chip-sel: %i\n",
70      slave_spi_board_info.modalias, slave_spi_board_info.bus_num,
       slave_spi_board_info.chip_select);
71   spi_unregister_device(slave_spi_device);
72 }
```

Her er kald-grafen for denne funktion:



9.2.1.2 static int hotplug_spi_init (void) [static]

Defineret på linje 32 i filen hotplug_psoc_spi_device.c.

Indeholder referencer til slave_spi_board_info og slave_spi_device.

Refereret til af hotplug_spi_exit().

```
33 {
34   int bus_num;
35   struct spi_master *slaves_spi_master;
36
37   printk(KERN_ALERT "Adding SPI Device: %s, bus: %i, chip-sel: %i\n",
38      slave_spi_board_info.modalias, slave_spi_board_info.bus_num,
       slave_spi_board_info.chip_select);
39
40   /* Add the slave SPI device to the SPI bus
41    *
42    * These methods are used to hot-plug spi devices.
43    * SPI devices are by nature NOT hot-pluggable, as
44    * they cannot be probed for functionality etc. SPI
45    * devices are normally cold-plugged during boot, that
46    * is, they are added in the board description file:
47    * /arch/arm/mach-omap2/board-devkit8000.c
48    * Using this method we actually doing "hot" cold-plugging
49    * adding devices using a kernel module.
50    * Note that it is crusial that driver and device uses
51    * the same name alias. If not, the device and driver
52    * will not be paired and the probe method in the driver
53    * not be called.
54    */
55   bus_num = slave_spi_board_info.bus_num;
56   slaves_spi_master = spi_busnum_to_master(bus_num);
57   slave_spi_device = spi_new_device(slaves_spi_master,
58                     &slave_spi_board_info);
59   if(slave_spi_device < 0) {
60     printk(KERN_ALERT "Unsuccesful creating a new device\n");
61     return -1;
62   }
63
64   return 0;
65 }
```

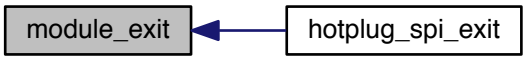
Her er kalder-grafen for denne funktion:

9.2.1.3 MODULE_AUTHOR ("Jeppe Stærk")

9.2.1.4 module_exit (hotplug_spi_exit)

Refereret til af hotplug_spi_exit().

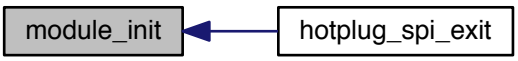
Her er kalder-grafen for denne funktion:



9.2.1.5 module_init (hotplug_spi_init)

Refereret til af hotplug_spi_exit().

Her er kalder-grafen for denne funktion:



9.2.1.6 MODULE_LICENSE ("Dual BSD/GPL")

9.2.2 Variabel-dokumentation

9.2.2.1 struct omap2_mcspi_device_config mcspi_config [static]

Startværdi:

```
= {
  .turbo_mode       = 1,
}
```

Defineret på linje 16 i filen hotplug_psoc_spi_device.c.

9.2.2.2 struct spi_board_info slave_spi_board_info [static]

Startværdi:

```
= {
  .modalias     = "psoc4",
  .bus_num      = 1,
  .chip_select      = 0,
  .max_speed_hz     = 100000,
  .controller_data  = &mcspi_config,
  .mode             = SPI_MODE_3,
}
```

Defineret på linje 23 i filen hotplug_psoc_spi_device.c.

Refereret til af hotplug_spi_exit() og hotplug_spi_init().

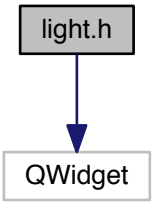
9.2.2.3 struct spi_device* slave_spi_device [static]

Defineret på linje 11 i filen hotplug_psoc_spi_device.c.

Refereret til af hotplug_spi_exit() og hotplug_spi_init().

9.3 light.h filreference

```
#include <QWidget>
```
Inklusions-afhængighedsgraf for light.h:



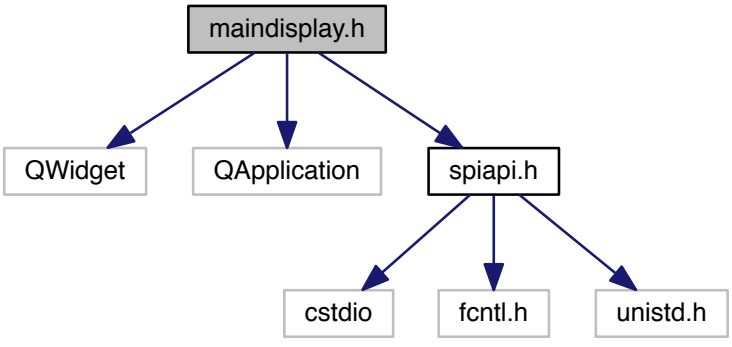
Datastrukturer

- class Light

9.4 maindisplay.h filreference

Handles all UI-related in maindisplay including all tabs.

```
#include <QWidget>
#include <QApplication>
#include "spiapi.h"
```
Inklusions-afhængighedsgraf for maindisplay.h:



Datastrukturer

- class MainDisplay

Namespaces

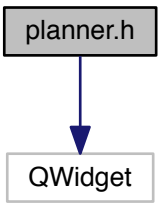
- Ui

9.4.1 Detaljeret beskrivelse

Handles all UI-related in maindisplay including all tabs.

9.5 planner.h filreference

```
#include <QWidget>
```
Inklusions-afhængighedsgraf for planner.h:



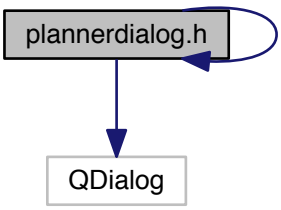
Datastrukturer

- class Planner

9.6 plannerdialog.h filreference

Handles all UI-related in plannerdialog.

```
#include <QDialog>
#include "plannerdialog.h"
```
Inklusions-afhængighedsgraf for plannerdialog.h:



Denne graf viser, hvilke filer der direkte eller indirekte inkluderer denne fil:

Datastrukturer

- class PlannerDialog

Namespaces

- Ui

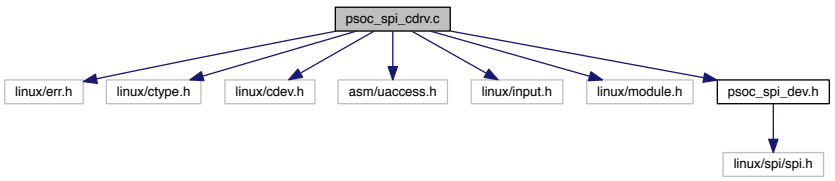
9.6.1 Detaljeret beskrivelse

Handles all UI-related in plannerdialog.

9.7 psoc_spi_cdrv.c filreference

```
#include <linux/err.h>
#include <linux/ctype.h>
#include <linux/cdev.h>
#include <asm/uaccess.h>
#include <linux/input.h>
#include <linux/module.h>
#include "psoc_spi_dev.h"
```

Inklusions-afhængighedsgraf for psoc_spi_cdrv.c:



#Defines

- #define psoc4_MAJOR 64
- #define psoc4_MINOR 0
- #define psoc4_DEVICE 1
- #define MAXLEN 16
- #define MODULE_DEBUG 1
- #define ERRGOTO(label, ...)

Funktioner

- MODULE_AUTHOR ("Jeppe Stærk")
- MODULE_LICENSE ("Dual BSD/GPL")
- static int __init psoc4_cdrv_init (void)
- static void __exit psoc4_cdrv_exit (void)
- int psoc4_cdrv_open (struct inode *inode, struct file *filep)
- int psoc4_cdrv_release (struct inode *inode, struct file *filep)
- ssize_t psoc4_cdrv_write (struct file *filep, const char __user *ubuf, size_t count, loff_t *f_pos)
- ssize_t psoc4_cdrv_read (struct file *filep, char __user *ubuf, size_t count, loff_t *f_pos)
- module_init (psoc4_cdrv_init)
- module_exit (psoc4_cdrv_exit)

Variable

- static struct cdev psoc4Dev
- struct file_operations psoc4_Fops
- static int devno
- static struct spi_device * psoc4_spi_device = NULL

9.7.1 #Define-dokumentation

9.7.1.1 #define ERRGOTO(*label, ...*)

Værdi:

```
{                                       \
    printk (__VA_ARGS__);               \
    goto label;                         \
} while(0)
```

Defineret på linje 28 i filen psoc_spi_cdrv.c.

Refereret til af psoc4_cdrv_init().

9.7.1.2 #define MAXLEN 16

Defineret på linje 15 i filen psoc_spi_cdrv.c.

Refereret til af psoc4_cdrv_write().

9.7.1.3 #define MODULE_DEBUG 1

Defineret på linje 17 i filen psoc_spi_cdrv.c.

Refereret til af psoc4_cdrv_read() og psoc4_cdrv_write().

9.7.1.4 #define psoc4_DEVICE 1

Defineret på linje 14 i filen psoc_spi_cdrv.c.

Refereret til af psoc4_cdrv_exit(), psoc4_cdrv_init(), psoc4_cdrv_open() og psoc4_cdrv_release().

9.7.1.5 #define psoc4_MAJOR 64

Defineret på linje 12 i filen psoc_spi_cdrv.c.

Refereret til af psoc4_cdrv_init().

9.7.1.6 #define psoc4_MINOR 0

Defineret på linje 13 i filen psoc_spi_cdrv.c.

Refereret til af psoc4_cdrv_init().

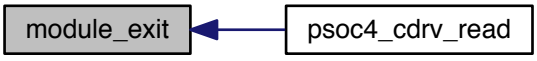
9.7.2 Funktions-dokumentation

9.7.2.1 MODULE_AUTHOR ("Jeppe Stærk")

9.7.2.2 module_exit (psoc4_cdrv_exit)

Refereret til af psoc4_cdrv_read().

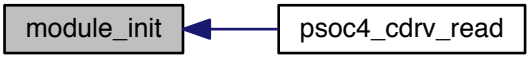
Her er kalder-grafen for denne funktion:



9.7.2.3 module_init (psoc4_cdrv_init)

Refereret til af psoc4_cdrv_read().

Her er kalder-grafen for denne funktion:



9.7.2.4 MODULE_LICENSE ("Dual BSD/GPL")

9.7.2.5 static void __exit psoc4_cdrv_exit (void) [static]

Defineret på linje 74 i filen psoc_spi_cdrv.c.

Indeholder referencer til devno, psoc4_DEVICE, psoc4_spi_exit() og psoc4Dev.

Refereret til af psoc4_cdrv_read().

```
75 {
76     printk("psoc4 driver Exit\n");
77     cdev_del(&psoc4Dev);
78 
79     unregister_chrdev_region(devno, psoc4_DEVICE);
80 
81     psoc4_spi_exit();
82 }
```

Her er kald-grafen for denne funktion:

Her er kalder-grafen for denne funktion:

9.7.2.6 static int __init psoc4_cdrv_init (void) [static]

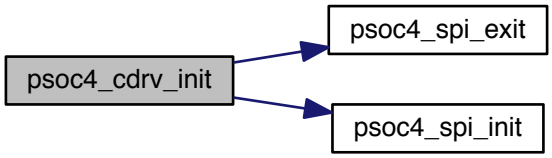
Defineret på linje 38 i filen psoc_spi_cdrv.c.

Indeholder referencer til devno, ERRGOTO, psoc4_DEVICE, psoc4_Fops, psoc4_MAJOR, psoc4_MINOR, psoc4↩
_spi_exit(), psoc4_spi_init() og psoc4Dev.

Refereret til af psoc4_cdrv_read().

```
39 {
40     int err;
41
42     printk("psoc4 driver initializing\n");
43
44     /* Register SPI Driver */
45     err=psoc4_spi_init();
46     if(err)
47         ERRGOTO(error, "Failed SPI Initialization\n");
48
49     /* Allocate chrdev region */
50     devno = MKDEV(psoc4_MAJOR, psoc4_MINOR);
51     err = register_chrdev_region(devno, psoc4_DEVICE, "psoc4");
52     if(err)
53         ERRGOTO(err_spi_init, "Failed registering char region (%d,%d) +%d, error %d\n",
54                 psoc4_MAJOR, psoc4_MINOR, psoc4_DEVICE, err);
55
56     /* Register Char Device */
57     cdev_init(&psoc4Dev, &psoc4_Fops);
58     err = cdev_add(&psoc4Dev, devno, psoc4_DEVICE);
59     if (err)
60         ERRGOTO(err_register, "Error %d adding psoc4 device\n", err);
61
62     return 0;
63
64 err_register:
65     unregister_chrdev_region(devno, psoc4_DEVICE);
66
67 err_spi_init:
68     psoc4_spi_exit();
69
70 error:
71     return err;
72 }
```

Her er kald-grafen for denne funktion:



Her er kalder-grafen for denne funktion:

9.7.2.7 int psoc4_cdrv_open (struct inode * *inode*, struct file * *filep*)

Defineret på linje 84 i filen psoc_spi_cdrv.c.

Indeholder referencer til psoc4_DEVICE, psoc4_get_device() og psoc4_spi_device.

Refereret til af psoc4_cdrv_read().

```
85 {
86     int major = imajor(inode);
87     int minor = iminor(inode);
88 
89     printk("cdrv_open: Opening psoc4 Device [major], [minor]: %i, %i\n", major, minor);
90 
91     /* Check if minor number is within range */
92     if (minor > psoc4_DEVICE-1)
93     {
94         printk("Minor no out of range (0-%i): %i\n", psoc4_DEVICE, minor);
95         return -ENODEV;
96     }
97 
98     /* Check if a psoc4 device is registered */
99     if(!(psoc4_spi_device=psoc4_get_device()))
100         return -ENODEV;
101 
102     return 0;
103 }
```

Her er kald-grafen for denne funktion:

Her er kalder-grafen for denne funktion:

9.7.2.8 ssize_t psoc4_cdrv_read (struct file * *filep*, char __user * *ubuf*, size_t *count*, loff_t * *f_pos*)

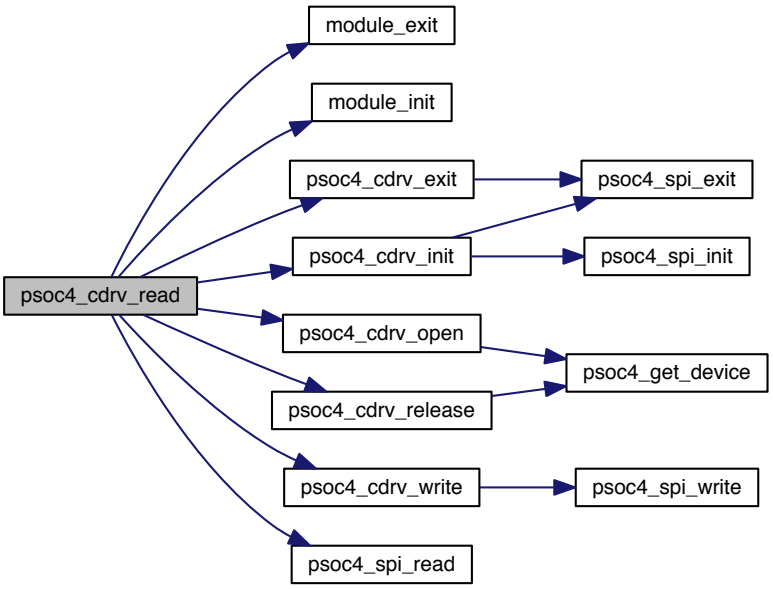
Defineret på linje 158 i filen psoc_spi_cdrv.c.

Indeholder referencer til MODULE_DEBUG, module_exit(), module_init(), psoc4_cdrv_exit(), psoc4_cdrv_init(), psoc4_cdrv_open(), psoc4_cdrv_release(), psoc4_cdrv_write(), psoc4_Fops, psoc4_spi_device og psoc4_spi_↩ read().

```
159 {
160     int minor, rxLen;
161     u16 rxData;
162     char rxBuffer[5];
163 
164     minor = iminor(filep->f_inode);
165 
166     if(MODULE_DEBUG)
167         printk(KERN_ALERT "cdrv_read: Reading from psoc4 [Minor] %i \n", minor);
168 
169     psoc4_spi_read(psoc4_spi_device, &rxData);
170 
```

```
171     if(MODULE_DEBUG)
172         printk(KERN_DEBUG "cdrv_read: Reading from psoc4 result: 0x%02x\n", rxData);
173 
174     // Laver en int om til en string
175     /* Convert to string and copy to user space */
176     //  len = snprintf(resultBuf, sizeof resultBuf, "%d\n", result);
177     /* Convert integer to string limited to "count" size. Returns
178     * length excluding NULL termination */
179     rxLen = sprintf(rxBuffer, "%hu", rxData);
180     rxLen++;
181 
182     if(MODULE_DEBUG)
183         printk(KERN_DEBUG "cdrv_read: Convert from psoc4 result: %s \n", rxBuffer);
184 
185     /* Copy data to user space */
186     if(copy_to_user(ubuf, rxBuffer, rxLen))
187         return -EFAULT;
188 
189     /* Move fileptr */
190     *f_pos += rxLen;
191 
192     return rxLen;
193 }
```

Her er kald-grafen for denne funktion:



9.7.2.9 int psoc4_cdrv_release (struct inode * *inode*, struct file * *filep*)

Defineret på linje 105 i filen psoc_spi_cdrv.c.

Indeholder referencer til psoc4_DEVICE, psoc4_get_device() og psoc4_spi_device.

Refereret til af psoc4_cdrv_read().

```
106 {
107     int major = imajor(inode);
108     int minor = iminor(inode);
109 
110     printk("cdrv_release: Closing psoc4 Device [major], [minor]: %i, %i\n", major, minor);
```

```
111
112     if ((minor > psoc4_DEVICE-1) || !(psoc4_spi_device=
    psoc4_get_device()))
113         return -ENODEV;
114
115     return 0;
116 }
```

Her er kald-grafen for denne funktion:

Her er kalder-grafen for denne funktion:

9.7.2.10 ssize_t psoc4_cdrv_write (struct file * *filep*, const char __user * *ubuf*, size_t *count*, loff_t * *f_pos*)

Defineret på linje 119 i filen psoc_spi_cdrv.c.

Indeholder referencer til MAXLEN, MODULE_DEBUG, psoc4_spi_device og psoc4_spi_write().

Refereret til af psoc4_cdrv_read().

```
120 {
121     int err, minor, txLen;
122     char txBuffer[MAXLEN];
123     u16 txData;
124
125     minor = iminor(filep->f_inode);
126
127     printk(KERN_ALERT "cdrv_write: Writing to psoc4 [Minor] %i \n", minor);
128
129     /* Limit copy length to MAXLEN allocated andCopy from user */
130     txLen = count < MAXLEN ? count : MAXLEN;
131     err = copy_from_user(txBuffer, ubuf, txLen);
132     if(err) {return -err;}
133
134     /* Pad null termination to string */
135     txBuffer[txLen] = '\0';
136
137     if(MODULE_DEBUG)
138         printk("cdrv_write: string from user: %s lenth: %i\n", txBuffer, txLen);
139
140     /* Convert sting to int */
141     sscanf(txBuffer, "%hu", &txData);
142
143     if(MODULE_DEBUG)
```

```
144         printk("cdrv_write: data from user: 0x%x\n", txData);
145
146     psoc4_spi_write(psoc4_spi_device, txData);
147
148     /* Legacy file ptr f_pos. Used to support
149      * random access but in char drv we dont!
150      * Move it the length actually  written
151      * for compability */
152     *f_pos += txLen;
153
154     /* return length actually written */
155     return txLen;
156 }
```

Her er kald-grafen for denne funktion:

Her er kalder-grafen for denne funktion:

9.7.3 Variabel-dokumentation

9.7.3.1 int devno [static]

Defineret på linje 22 i filen psoc_spi_cdrv.c.

Refereret til af psoc4_cdrv_exit() og psoc4_cdrv_init().

9.7.3.2 struct file_operations psoc4_Fops

Startværdi:

```
=
{
    .owner   = THIS_MODULE,
    .open    = psoc4_cdrv_open,
    .release = psoc4_cdrv_release,
    .write   = psoc4_cdrv_write,
    .read    = psoc4_cdrv_read,
}
```

Defineret på linje 21 i filen psoc_spi_cdrv.c.

Refereret til af psoc4_cdrv_init() og psoc4_cdrv_read().

9.7.3.3 struct spi_device* psoc4_spi_device = NULL [static]

Defineret på linje 25 i filen psoc_spi_cdrv.c.

Refereret til af psoc4_cdrv_open(), psoc4_cdrv_read(), psoc4_cdrv_release() og psoc4_cdrv_write().

9.7.3.4 struct cdev psoc4Dev [static]

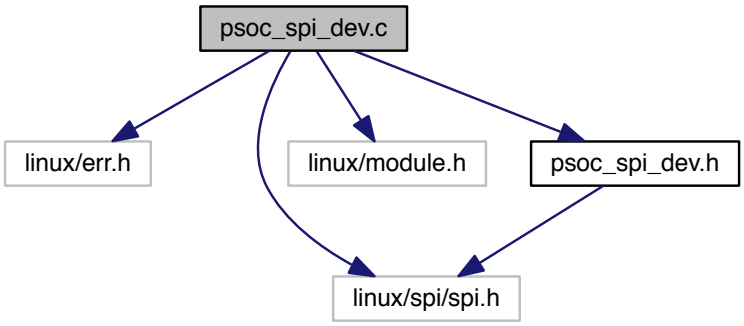
Defineret på linje 20 i filen psoc_spi_cdrv.c.

Refereret til af psoc4_cdrv_exit() og psoc4_cdrv_init().

9.8 psoc_spi_dev.c filreference

```
#include <linux/err.h>
#include <linux/spi/spi.h>
#include <linux/module.h>
#include "psoc_spi_dev.h"
```

Inklusions-afhængighedsgraf for psoc_spi_dev.c:



#Defines

- #define MODULE_DEBUG 1

Funktioner

- MODULE_AUTHOR ("Jeppe Stærk")
- MODULE_LICENSE ("Dual BSD/GPL")
- struct spi_device * psoc4_get_device (void)
- int psoc4_spi_read (struct spi_device *spi, u16 *rxData)
- int psoc4_spi_write (struct spi_device *spi, u16 txData)
- static int psoc4_spi_probe (struct spi_device *spi)
- static int psoc4_remove (struct spi_device *spi)
- int psoc4_spi_init (void)
- void psoc4_spi_exit (void)

Variable

- static struct spi_device ∗ psoc4_spi_device = NULL
- static struct spi_driver psoc4_spi_driver

9.8.1 #Define-dokumentation

9.8.1.1 #define MODULE_DEBUG 1

Defineret på linje 9 i filen psoc_spi_dev.c.

Refereret til af psoc4_spi_read() og psoc4_spi_write().

9.8.2 Funktions-dokumentation

9.8.2.1 MODULE_AUTHOR ("Jeppe Stærk")

9.8.2.2 MODULE_LICENSE ("Dual BSD/GPL")

9.8.2.3 struct spi_device∗ psoc4_get_device (void)

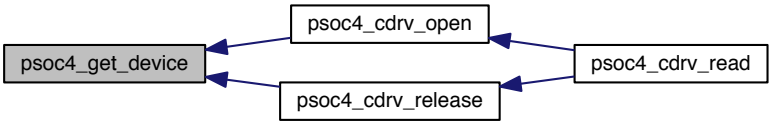
Defineret på linje 16 i filen psoc_spi_dev.c.

Indeholder referencer til psoc4_spi_device.

Refereret til af psoc4_cdrv_open() og psoc4_cdrv_release().

```
16                                          {
17     return psoc4_spi_device;
18 }
```

Her er kalder-grafen for denne funktion:



9.8.2.4 static int psoc4_remove (struct spi_device ∗ *spi*) [static]

Defineret på linje 117 i filen psoc_spi_dev.c.

Indeholder referencer til psoc4_spi_device.

```
118 {
119     psoc4_spi_device = 0;
120
121     printk (KERN_ALERT "dev_remove: Removing SPI device %s on chip select %i\n",
122             spi->modalias, spi->chip_select);
123
124     return 0;
125 }
```

9.8.2.5 void psoc4_spi_exit (void)

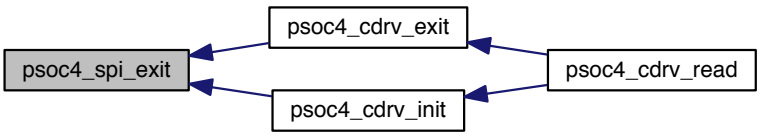
Defineret på linje 165 i filen psoc_spi_dev.c.

Indeholder referencer til psoc4_spi_driver.

Refereret til af psoc4_cdrv_exit() og psoc4_cdrv_init().

```
166 {
167     spi_unregister_driver(&psoc4_spi_driver);
168 }
```

Her er kalder-grafen for denne funktion:



9.8.2.6 int psoc4_spi_init (void)

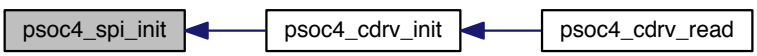
Defineret på linje 148 i filen psoc_spi_dev.c.

Indeholder referencer til psoc4_spi_driver.

Refereret til af psoc4_cdrv_init().

```
149 {
150     int err;
151 
152     err = spi_register_driver(&psoc4_spi_driver);
153 
154     if(err<0)
155         printk (KERN_ALERT "Error %d registering the psoc4 SPI driver\n", err);
156 
157     return err;
158 }
```

Her er kalder-grafen for denne funktion:



9.8.2.7 static int psoc4_spi_probe (struct spi_device * *spi*) [static]

Defineret på linje 97 i filen psoc_spi_dev.c.

Indeholder referencer til psoc4_spi_device.

```
98 {
99     int err = 0;
100     printk(KERN_DEBUG "dev_probe: New SPI device: %s using chip select: %i\n",
101            spi->modalias, spi->chip_select);
102 
103     spi->bits_per_word = 16;
104 
105     spi_setup(spi);
106 
107     /* In this case we assume just one device */
108     psoc4_spi_device = spi;
109 
110     return err;
111 }
```

9.8.2.8 int psoc4_spi_read (struct spi_device * *spi,* u16 * *rxData*)

Defineret på linje 25 i filen psoc_spi_dev.c.

Indeholder referencer til MODULE_DEBUG.

Refereret til af psoc4_cdrv_read().

```
26 {
27     struct spi_transfer t[1];
28     struct spi_message m;
29     u16 rxBuffer = 0;
30 
31     /* Check for valid spi device */
32     if(!spi)
33         return -ENODEV;
34 
35     /* Init Message */
36     memset(t, 0, sizeof(t));
37     spi_message_init(&m);
38     m.spi = spi;
39 
40     t[0].delay_usecs = 60;
41     t[0].tx_buf = NULL;
42     t[0].rx_buf = &rxBuffer;
43     t[0].len = 2;
44     spi_message_add_tail(&t[0], &m);
45 
46     /* Transmit SPI Data (blocking) */
47     spi_sync(m.spi, &m);
48 
49     if(MODULE_DEBUG)
50         printk(KERN_DEBUG "dev_read: Read data 0x%hx\n", rxBuffer);
51 
52     *rxData = rxBuffer;
53     return 0;
54 }
```

Her er kalder-grafen for denne funktion:

9.8.2.9 int psoc4_spi_write (struct spi_device * *spi*, u16 *txData*)

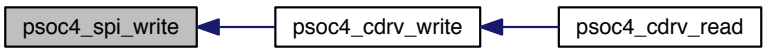
Defineret på linje 61 i filen psoc_spi_dev.c.

Indeholder referencer til MODULE_DEBUG.

Refereret til af psoc4_cdrv_write().

```
62 {
63     struct spi_transfer t[1];
64     struct spi_message m;
65 
66     /* Check for valid spi device */
67     if(!spi)
68         return -ENODEV;
69 
70     /* Init Message */
71     memset(&t, 0, sizeof(t));
72     spi_message_init(&m);
73     m.spi = spi;
74 
75     if(MODULE_DEBUG)
76         printk(KERN_DEBUG "dev_write: Write data 0x%x\n", txData);
77 
78     /* Configure tx/rx buffers */
79     t[0].tx_buf = &txData;
80     t[0].rx_buf = NULL;
81     t[0].len = 2;
82     t[0].delay_usecs = 60;
83     spi_message_add_tail(&t[0], &m);
84 
85     /* Transmit SPI Data (blocking) */
86     spi_sync(m.spi, &m);
87 
88     return 0;
89 }
```

Her er kalder-grafen for denne funktion:



9.8.3 Variabel-dokumentation

9.8.3.1 struct spi_device* psoc4_spi_device = NULL [static]

Defineret på linje 13 i filen psoc_spi_dev.c.

Refereret til af psoc4_get_device(), psoc4_remove() og psoc4_spi_probe().

9.8.3.2 struct spi_driver psoc4_spi_driver [static]

Startværdi:

```
= {
    .driver = {
        .name = "psoc4",
        .bus = &spi_bus_type,
        .owner = THIS_MODULE,
    },
    .probe = psoc4_spi_probe,
    .remove = psoc4_remove,
}
```

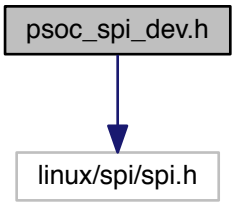
Defineret på linje 133 i filen psoc_spi_dev.c.

Refereret til af psoc4_spi_exit() og psoc4_spi_init().

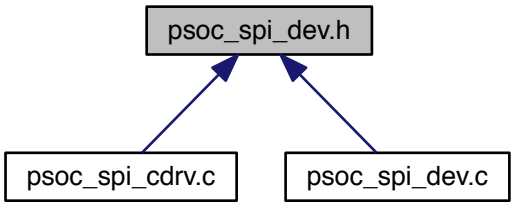
9.9 psoc_spi_dev.h filreference

```
#include <linux/spi/spi.h>
```

Inklusions-afhængighedsgraf for psoc_spi_dev.h:



Denne graf viser, hvilke filer der direkte eller indirekte inkluderer denne fil:



Funktioner

- struct spi_device ∗ psoc4_get_device (void)
- int psoc4_spi_read (struct spi_device ∗spi, u16 ∗rxData)
- int psoc4_spi_write (struct spi_device ∗spi, u16 txDate)
- int psoc4_spi_init (void)
- void psoc4_spi_exit (void)

9.9.1 Funktions-dokumentation

9.9.1.1 struct spi_device∗ psoc4_get_device (void)

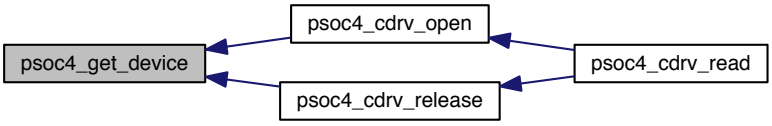
Defineret på linje 16 i filen psoc_spi_dev.c.

Indeholder referencer til psoc4_spi_device.

Refereret til af psoc4_cdrv_open() og psoc4_cdrv_release().

```
16                                          {
17      return psoc4_spi_device;
18  }
```

Her er kalder-grafen for denne funktion:



9.9.1.2 void psoc4_spi_exit (void)

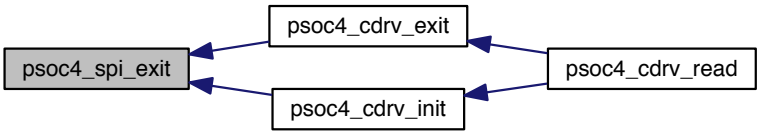
Defineret på linje 165 i filen psoc_spi_dev.c.

Indeholder referencer til psoc4_spi_driver.

Refereret til af psoc4_cdrv_exit() og psoc4_cdrv_init().

```
166 {
167      spi_unregister_driver(&psoc4_spi_driver);
168  }
```

Her er kalder-grafen for denne funktion:



9.9.1.3 int psoc4_spi_init (void)

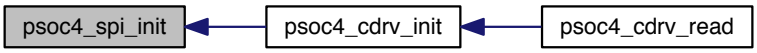
Defineret på linje 148 i filen psoc_spi_dev.c.

Indeholder referencer til psoc4_spi_driver.

Refereret til af psoc4_cdrv_init().

```
149 {
150     int err;
151 
152     err = spi_register_driver(&psoc4_spi_driver);
153 
154     if(err<0)
155         printk (KERN_ALERT "Error %d registering the psoc4 SPI driver\n", err);
156 
157     return err;
158 }
```

Her er kalder-grafen for denne funktion:



9.9.1.4 int psoc4_spi_read (struct spi_device * *spi*, u16 * *rxData*)

Defineret på linje 25 i filen psoc_spi_dev.c.

Indeholder referencer til MODULE_DEBUG.

Refereret til af psoc4_cdrv_read().

```
26 {
27     struct spi_transfer t[1];
28     struct spi_message m;
29     u16 rxBuffer = 0;
30 
31     /* Check for valid spi device */
32     if(!spi)
33         return -ENODEV;
34 
35     /* Init Message */
36     memset(t, 0, sizeof(t));
37     spi_message_init(&m);
38     m.spi = spi;
39 
40     t[0].delay_usecs = 60;
41     t[0].tx_buf = NULL;
42     t[0].rx_buf = &rxBuffer;
43     t[0].len = 2;
44     spi_message_add_tail(&t[0], &m);
45 
46     /* Transmit SPI Data (blocking) */
47     spi_sync(m.spi, &m);
48 
49     if(MODULE_DEBUG)
50         printk(KERN_DEBUG "dev_read: Read data 0x%hx\n", rxBuffer);
51 
52     *rxData = rxBuffer;
53     return 0;
54 }
```

Her er kalder-grafen for denne funktion:

9.9.1.5 int psoc4_spi_write (struct spi_device * *spi*, u16 *txDate*)

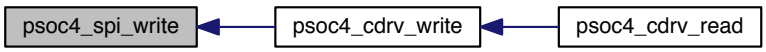
Defineret på linje 61 i filen psoc_spi_dev.c.

Indeholder referencer til MODULE_DEBUG.

Refereret til af psoc4_cdrv_write().

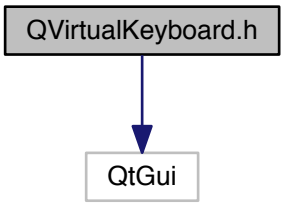
```
62 {
63     struct spi_transfer t[1];
64     struct spi_message m;
65 
66     /* Check for valid spi device */
67     if(!spi)
68         return -ENODEV;
69 
70     /* Init Message */
71     memset(&t, 0, sizeof(t));
72     spi_message_init(&m);
73     m.spi = spi;
74 
75     if(MODULE_DEBUG)
76         printk(KERN_DEBUG "dev_write: Write data 0x%x\n", txData);
77 
78     /* Configure tx/rx buffers */
79     t[0].tx_buf = &txData;
80     t[0].rx_buf = NULL;
81     t[0].len = 2;
82     t[0].delay_usecs = 60;
83     spi_message_add_tail(&t[0], &m);
84 
85     /* Transmit SPI Data (blocking) */
86     spi_sync(m.spi, &m);
87 
88     return 0;
89 }
```

Her er kalder-grafen for denne funktion:



9.10 QVirtualKeyboard.h filreference

`#include <QtGui>`
Inklusions-afhængighedsgraf for QVirtualKeyboard.h:



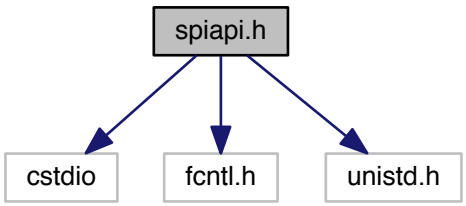
Datastrukturer

- class QVirtualKeyboard

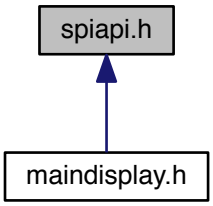
9.11 spiapi.h filreference

```
#include <cstdio>
#include <fcntl.h>
#include <unistd.h>
```

Inklusions-afhængighedsgraf for Semesterprojekt3/spiapi.h:



Denne graf viser, hvilke filer der direkte eller indirekte inkluderer denne fil:



Datastrukturer

- class SPIapi

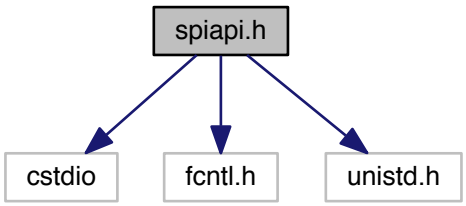
#Defines

- #define MAXLEN 5

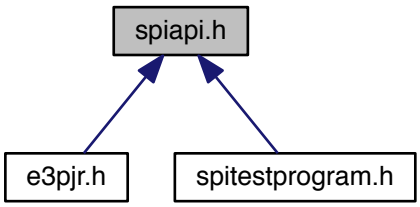
9.12 spiapi.h filreference

```
#include <cstdio>
#include <fcntl.h>
#include <unistd.h>
```

Inklusions-afhængighedsgraf for SpiTestProgram/spiapi.h:



Denne graf viser, hvilke filer der direkte eller indirekte inkluderer denne fil:



Datastrukturer

- class SPIapi

#Defines

- #define MAXLEN 5

9.12.1 #Define-dokumentation

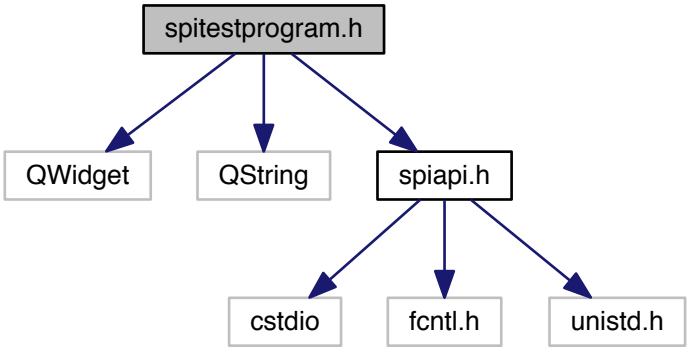
9.12.1.1 #define MAXLEN 5

Defineret på linje 8 i filen SpiTestProgram/spiapi.h.

9.13 spitestprogram.h filreference

```
#include <QWidget>
#include <QString>
#include "spiapi.h"
```

Inklusions-afhængighedsgraf for spitestprogram.h:



Datastrukturer

- class SpiTestProgram

Namespaces

- Ui

9.14 ui_e3pjr.h filreference

```
#include <QtCore/QVariant>
#include <QtGui/QAction>
#include <QtGui/QApplication>
#include <QtGui/QButtonGroup>
#include <QtGui/QHBoxLayout>
#include <QtGui/QHeaderView>
#include <QtGui/QLineEdit>
#include <QtGui/QPlainTextEdit>
#include <QtGui/QPushButton>
#include <QtGui/QSlider>
#include <QtGui/QSpinBox>
#include <QtGui/QTabWidget>
#include <QtGui/QVBoxLayout>
#include <QtGui/QWidget>
```

Inklusions-afhængighedsgraf for ui_e3pjr.h:

Datastrukturer

- class Ui_E3PJR
- class E3PJR

Namespaces

- Ui

9.15 ui_spitestprogram.h filreference

```
#include <QtCore/QVariant>
#include <QtGui/QAction>
#include <QtGui/QApplication>
#include <QtGui/QButtonGroup>
#include <QtGui/QHBoxLayout>
#include <QtGui/QHeaderView>
#include <QtGui/QLabel>
#include <QtGui/QLineEdit>
#include <QtGui/QPushButton>
#include <QtGui/QSpinBox>
#include <QtGui/QVBoxLayout>
#include <QtGui/QWidget>
```

Inklusions-afhængighedsgraf for ui_spitestprogram.h:

Datastrukturer

- class Ui_SpiTestProgram
- class SpiTestProgram

Namespaces

- Ui