

Code_generator

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Chapter 1

Namespace Index

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Class Index

2.1 Class List

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Chapter 3

Namespace Documentation

3.1 Package common

Classes

- enum [ErrorCode](#)
- class [Features](#)
- class [GeneralSettings](#)

3.1.1 Detailed Description

Common information that needs to be accessed across all the project

Author

Miguel Diaz

Version

0.1

3.2 Package configurator

Classes

- class [AdcConf](#)
- class [ConfigurationFile](#)
- class [PinConf](#)
- enum [Selected](#)
- class [UartConf](#)

3.2.1 Detailed Description

Configuration classes

Author

Miguel Diaz

Version

0.1

3.3 Package framework

Classes

- class [AdcGenerator](#)
- class [CodeGenerator](#)
- class [Common](#)
- class **GpioGenerator**
- class [UartGenerator](#)

3.3.1 Detailed Description

Framework information

Author

H112943

Version

0.1

3.4 Package gui

Classes

- class [AboutWindow](#)
- class [AdcConfWindow](#)
- class [GeneralSettingsWindow](#)
- class [GpioConfWindow](#)
- class [MainGui](#)
- class [MainWindow](#)
- class [Messages](#)
- class [ProjectSettingsWindow](#)
- class [UartConfWindow](#)

3.4.1 Detailed Description

Author

Miguel Diaz

Version

0.1

3.5 Package microcontroller

Classes

- class [Adc](#)
- class [Microcontroller](#)
- class [Pin](#)
- class [Uart](#)

3.5.1 Detailed Description

[Microcontroller](#) related classes

Author

Miguel Diaz

Version

0.1

3.6 Package projectConfiguration

Classes

- class [ProjectSettings](#)

3.6.1 Detailed Description

Project settings and configuration files

Author

Miguel Diaz

Version

0.1

3.7 Package xmlCreator

Classes

- class [ConfXmlWriter](#)

3.7.1 Detailed Description

Create configuration XML

Author

Miguel Diaz

Version

0.1

3.8 Package xmlParser

Classes

- class [XmlOpener](#)

3.8.1 Detailed Description

XML parser for microcontroller information and project settings

Author

Miguel Diaz

Version

0.1

Chapter 4

Class Documentation

4.1 gui.AboutWindow Class Reference

Public Member Functions

- [AboutWindow](#) ()

Static Public Member Functions

- static void [main](#) (String[] args)

4.1.1 Detailed Description

About Window, contains version and contact information

Author

ovd

4.1.2 Constructor & Destructor Documentation

4.1.2.1 AboutWindow()

```
gui.AboutWindow.AboutWindow ( )
```

Create the application.

4.1.3 Member Function Documentation

4.1.3.1 main()

```
static void gui.AboutWindow.main (
    String[] args ) [static]
```

About window main

Parameters

<i>args</i>	Init parameters
-------------	-----------------

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

- src/gui/AboutWindow.java

4.2 microcontroller.Adc Class Reference

Public Member Functions

- [Adc](#) ()
- void [setName](#) (String name)
- String [getName](#) ()
- void [addSample](#) (String sample)
- int [getSampleNum](#) ()
- String [getSample](#) (int index)
- void [addClock](#) (String clock)
- int [getClockNum](#) ()
- String [getClock](#) (int index)
- void [addJustification](#) (String justification)
- int [getJustificationNum](#) ()
- String [getJustification](#) (int index)
- void [addPrescaler](#) (String prescaler)
- int [getPrescalerNum](#) ()
- String [getPrescaler](#) (int index)
- void [addResolution](#) (String resolution)
- int [getResolutionNum](#) ()
- String [getResolution](#) (int index)
- void [addReference](#) (String reference)
- int [getReferenceNum](#) ()
- String [getReference](#) (int index)
- void [addChannel](#) ([AdcChannel](#) channel)
- int [getChannelNum](#) ()
- [AdcChannel](#) [getChannel](#) (int index)
- boolean [isValid](#) ()

4.2.1 Constructor & Destructor Documentation

4.2.1.1 Adc()

```
microcontroller.Adc.Adc ( )
```

ADC instance constructor

4.2.2 Member Function Documentation

4.2.2.1 addChannel()

```
void microcontroller.Adc.addChannel (
    AdcChannel channel )
```

Add ADC's channel

Parameters

<i>channel</i>	Channel
----------------	---------

4.2.2.2 addClock()

```
void microcontroller.Adc.addClock (
    String clock )
```

Add ADC supported clock source

Parameters

<i>clock</i>	Clock source
--------------	--------------

4.2.2.3 addJustification()

```
void microcontroller.Adc.addJustification (
```

```
String justification )
```

Add ADC's supported bits justification

Parameters

<i>justification</i>	Bits justification
----------------------	--------------------

4.2.2.4 addPrescaler()

```
void microcontroller.Adc.addPrescaler (
    String prescaler )
```

Add ADC's supported clock prescaler

Parameters

<i>prescaler</i>	Clock prescaler
------------------	-----------------

4.2.2.5 addReference()

```
void microcontroller.Adc.addReference (
    String reference )
```

Add ADC's supported voltage references

Parameters

<i>reference</i>	Voltage references
------------------	--------------------

4.2.2.6 addResolution()

```
void microcontroller.Adc.addResolution (
    String resolution )
```

Add ADC's supported bits resolution

Parameters

<i>resolution</i>	bits resolution
-------------------	-----------------

4.2.2.7 addSample()

```
void microcontroller.Adc.addSample (  
    String sample )
```

Add ADC supported samples

Parameters

<i>sample</i>	Sample definition
---------------	-------------------

4.2.2.8 getChannel()

```
AdcChannel microcontroller.Adc.getChannel (  
    int index )
```

Get ADC's channel

Parameters

<i>index</i>	Channel index
--------------	---------------

Returns

Channel

4.2.2.9 getChannelNum()

```
int microcontroller.Adc.getChannelNum ( )
```

Get ADC's number of channels

Returns

Number of channels

4.2.2.10 **getClock()**

```
String microcontroller.Adc.getClock (
    int index )
```

Get ADC's clock source

Parameters

<i>index</i>	Clock source index
--------------	--------------------

Returns

Clock source

4.2.2.11 **getClockNum()**

```
int microcontroller.Adc.getClockNum ( )
```

Get ADCs number of clock sources

Returns

Number of clock sources

4.2.2.12 **getJustification()**

```
String microcontroller.Adc.getJustification (
    int index )
```

Get ADC's bits justification

Parameters

<i>index</i>	bits justification index
--------------	--------------------------

Returns

Bits justification

4.2.2.13 getJustificationNum()

```
int microcontroller.Adc.getJustificationNum ( )
```

Get ADC's number of supported justifications

Returns

Number of supported justifications

4.2.2.14 getName()

```
String microcontroller.Adc.getName ( )
```

Get ADCs instance name

Returns

Instance name

4.2.2.15 getPrescaler()

```
String microcontroller.Adc.getPrescaler (
    int index )
```

Get ADC's clock prescaler

Parameters

<i>index</i>	Clock prescaler index
--------------	-----------------------

Returns

Clock prescaler

4.2.2.16 getPrescalerNum()

```
int microcontroller.Adc.getPrescalerNum ( )
```

Get ADC's number of supported prescalers

Returns

Number of supported prescalers

4.2.2.17 getReference()

```
String microcontroller.Adc.getReference (
    int index )
```

Get ADC's voltage references

Parameters

<i>index</i>	Voltage references index
--------------	--------------------------

Returns

Voltage references

4.2.2.18 getReferenceNum()

```
int microcontroller.Adc.getReferenceNum ( )
```

Get ADC's number of supported voltage references

Returns

Number of supported voltage references

4.2.2.19 getResolution()

```
String microcontroller.Adc.getResolution (
    int index )
```

Get ADC's bits resolution

Parameters

<i>index</i>	bits resolution index
--------------	-----------------------

Returns

bits resolution

4.2.2.20 getResolutionNum()

```
int microcontroller.Adc.getResolutionNum ( )
```

Get ADC's number of supported bits resolutions

Returns

Number of supported bits resolutions

4.2.2.21 getSample()

```
String microcontroller.Adc.getSample (
    int index )
```

Get ADC's Sample definition

Parameters

<i>index</i>	sample definition index
--------------	-------------------------

Returns

Sample definition

4.2.2.22 getSampleNum()

```
int microcontroller.Adc.getSampleNum ( )
```

Get ADCs number of samples definitions

Returns

Number of samples definitions

4.2.2.23 isValid()

```
boolean microcontroller.Adc.isValid ( )
```

Check validity of ADC

Returns

True if valid

4.2.2.24 setName()

```
void microcontroller.Adc.setName (
    String name )
```

Set ADCs instance name

Parameters

<i>name</i>	Instance name
-------------	---------------

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

- src/microcontroller/Adc.java

4.3 configurator.ADC.AdcChannel Class Reference

Public Member Functions

- **AdcChannel** (String name, int pinIndex)
- String [getName](#) ()
- [Selected](#) [getSelected](#) ()
- void [setSelected](#) ([Selected](#) selection)
- String [getCodeName](#) ()
- void [setCodeName](#) (String codeName)
- int [getPinIndex](#) ()
- boolean [isValid](#) ()

Static Public Attributes

- static final String **INVALID_NAME** = [ErrorCode.STR_INVALID](#)
- static final int **INVALID_INDEX** = [ErrorCode.INT_INVALID_INDEX](#)
- static final String **STR_NAME** = "name"
- static final String **STR_CODE_NAME** = "codeName"
- static final String **STR_PIN_INDEX** = "pinIndex"
- static final [Selected](#) **DF_SELECTED** = [configurator.Selected.NOT](#)

4.3.1 Member Function Documentation

4.3.1.1 getCodeName()

```
String configurator.ADC.AdcChannel.getCodeName ( )
```

Get ADC channel's code name

Returns

ADC channel's code name

4.3.1.2 getName()

```
String configurator.ADC.AdcChannel.getName ( )
```

Get ADC channel's name

Returns

ADC channel's name

4.3.1.3 getPinIndex()

```
int configurator.ADC.AdcChannel.getPinIndex ( )
```

Get ADC channel's pin index

Returns

4.3.1.4 `getSelected()`

```
Selected configurator.ADC.AdcChannel.getSelected ( )
```

Get channel's selection

Returns

Channel's selection

4.3.1.5 `isValid()`

```
boolean configurator.ADC.AdcChannel.isValid ( )
```

Check channel validity

Returns

True if valid

4.3.1.6 `setCodeName()`

```
void configurator.ADC.AdcChannel.setCodeName (
    String codeName )
```

Set ADC channel's code name

Parameters

<i>codeName</i>	ADC channel's code name
-----------------	-------------------------

4.3.1.7 `setSelected()`

```
void configurator.ADC.AdcChannel.setSelected (
    Selected selection )
```

Set channel's selection

Parameters

<i>selection</i>	Channel's selection
------------------	---------------------

4.3.2 Member Data Documentation

4.3.2.1 DF_SELECTED

```
final Selected configurator.ADC.AdcChannel.DF_SELECTED = configurator.Selected.NOT [static]
```

Default Pin's selection

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

- src/configurator/ADC/AdcChannel.java

4.4 configurator.AdcConf Class Reference

Public Member Functions

- [AdcConf](#) ([Adc](#) adc)
- [Selected](#) [getSelected](#) ()
- void [setSelected](#) ([Selected](#) selection)
- String [getCodeName](#) ()
- void [setCodeName](#) (String codeName)
- String [getSample](#) ()
- void [setSample](#) (String sample)
- String [getClock](#) ()
- void [setClock](#) (String clock)
- String [getJustification](#) ()
- void [setJustification](#) (String justification)
- String [getPrescaler](#) ()
- void [setPrescaler](#) (String prescaler)
- String [getResolution](#) ()
- void [setResolution](#) (String resolution)
- String [getReference](#) ()
- void [setReference](#) (String reference)
- void [setChannels](#) ([Adc](#) adc)
- int [getChannelsNum](#) ()
- [AdcChannel](#) [getChannel](#) (int index)
- int [getChannelIndexFromName](#) (String name)

Public Attributes

- [Adc](#) **AdcFeatures**

Static Public Attributes

- static final [Selected](#) **DF_SELECTED** = [Selected](#).NOT
- static final String **STR_NAME** = "name"
- static final String **STR_CODE_NAME** = "codeName"
- static final String **STR_SAMPLE** = "sample"
- static final String **STR_CLOCK** = "clock"
- static final String **STR_JUSTIFICATION** = "justification"
- static final String **STR_PRESCALER** = "prescaler"
- static final String **STR_RESOLUTION** = "resolution"
- static final String **STR_REFERENCE** = "reference"
- static final String **STR_CHANNEL** = "adcChannel"

4.4.1 Constructor & Destructor Documentation

4.4.1.1 AdcConf()

```
configurator.AdcConf.AdcConf (
    Adc adc )
```

ADC configuration constructor

Parameters

<i>adc</i>	ADC instance
------------	--------------

4.4.2 Member Function Documentation

4.4.2.1 getChannel()

```
AdcChannel configurator.AdcConf.getChannel (
    int index )
```

Get ADC channel

Parameters

<i>index</i>	ADC channel index
--------------	-------------------

Returns

Channel

4.4.2.2 getChannelsNum()

```
int configurator.AdcConf.getChannelsNum ( )
```

Get the total of channels in the ADC

Returns

Total of channels in the ADC

4.4.2.3 getClock()

```
String configurator.AdcConf.getClock ( )
```

Get ADC's configured clock

Returns

ADC's configured clock

4.4.2.4 getCodeName()

```
String configurator.AdcConf.getCodeName ( )
```

Get ADC's code name

Returns

ADC's code name

4.4.2.5 getJustification()

```
String configurator.AdcConf.getJustification ( )
```

Get ADC's configured justification

Returns

ADC's configured justification

4.4.2.6 getPrescaler()

```
String configurator.AdcConf.getPrescaler ( )
```

Get ADC's prescaler

Returns

ADC's prescaler

4.4.2.7 getReference()

```
String configurator.AdcConf.getReference ( )
```

Get ADC's configured reference

Returns

ADC's configured reference

4.4.2.8 getResolution()

```
String configurator.AdcConf.getResolution ( )
```

Get ADC's configured resolution

Returns

ADC's configured resolution

4.4.2.9 getSample()

```
String configurator.AdcConf.getSample ( )
```

Get ADC's configured samples

Returns

ADC's configured samples

4.4.2.10 getSelected()

```
Selected configurator.AdcConf.getSelected ( )
```

Get the ADC's selection

Returns

Selection

4.4.2.11 setChannels()

```
void configurator.AdcConf.setChannels (
    Adc adc )
```

Set ADC channels

Parameters

<i>adc</i>	ADC instance
------------	--------------

4.4.2.12 setClock()

```
void configurator.AdcConf.setClock (
    String clock )
```

Set ADC's configured clock

Parameters

<i>clock</i>	ADC's configured clock
--------------	------------------------

4.4.2.13 setCodeName()

```
void configurator.AdcConf.setCodeName (
    String codeName )
```

Set Get ADC's code name

Parameters

<i>codeName</i>	ADC's code name
-----------------	-----------------

4.4.2.14 setJustification()

```
void configurator.AdcConf.setJustification (
    String justification )
```

Set ADC's configured justification

Parameters

<i>justification</i>	ADC's configured justification
----------------------	--------------------------------

4.4.2.15 setPrescaler()

```
void configurator.AdcConf.setPrescaler (
    String prescaler )
```

Set ADC's prescaler

Parameters

<i>prescaler</i>	ADC's prescaler
------------------	-----------------

4.4.2.16 setReference()

```
void configurator.AdcConf.setReference (
    String reference )
```

Set ADC's configured reference

Parameters

<i>reference</i>	ADC's configured reference
------------------	----------------------------

4.4.2.17 setResolution()

```
void configurator.AdcConf.setResolution (
    String resolution )
```

Set ADC's configured resolution

Parameters

<i>resolution</i>	ADC's configured resolution
-------------------	-----------------------------

4.4.2.18 setSample()

```
void configurator.AdcConf.setSample (
    String sample )
```

Get ADC's configured samples

Parameters

<i>sample</i>	ADC's configured samples
---------------	--------------------------

4.4.2.19 setSelected()

```
void configurator.AdcConf.setSelected (
```

```
Selected selection )
```

Set the ADC's selection

Parameters

<i>selection</i>	Selection
------------------	-----------

4.4.3 Member Data Documentation

4.4.3.1 DF_SELECTED

```
final Selected configurator.AdcConf.DF_SELECTED = Selected.NOT [static]
```

Default Pin's selection

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

- src/configurator/AdcConf.java

4.5 gui.AdcConfWindow Class Reference

Public Member Functions

- [AdcConfWindow](#) ([Microcontroller](#) uCtrl)

Static Public Member Functions

- static void [main](#) (String[] args)

4.5.1 Constructor & Destructor Documentation

4.5.1.1 AdcConfWindow()

```
gui.AdcConfWindow.AdcConfWindow (
    Microcontroller uCtrl )
```

Create the application.

Parameters

<i>uCtrl</i>	Microcontroller
--------------	-----------------

4.5.2 Member Function Documentation

4.5.2.1 main()

```
static void gui.AdcConfWindow.main (  
    String[] args ) [static]
```

Launch the application.

Parameters

<i>args</i>	General arguments
-------------	-------------------

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

- `src/gui/AdcConfWindow.java`

4.6 framework.AdcGenerator Class Reference

Static Public Member Functions

- static String **getCfgArray** ([Microcontroller](#) uC)
- static String **getElDefs** ([Microcontroller](#) uC)
- static String **getElements** ([Microcontroller](#) uC)
- static String **getIncludes** ([Microcontroller](#) uC)
- static String **getCfgDefinitions** ([Microcontroller](#) uC)

Static Public Attributes

- static final String **STR_TKN_CFG_ARRAY** = "FWK_ADC_CFG_ARRAY"
- static final String **STR_TKN_ELEMENTS** = "FWK_ADC_ELEMENTS"
- static final String **STR_TKN_INC** = "FWK_ADC_INCLUDES"
- static final String **STR_TKN_CFG_DEFS** = "FWK_ADC_CFG_DEFINITIONS"
- static final String **STR_TKN_EL_DEFS** = "FWK_ADC_ELEMENTS_DEFINITIONS"

4.6.1 Member Function Documentation

4.6.1.1 getElDefs()

```
static String framework.AdcGenerator.getElDefs (
    Microcontroller uC ) [static]
```

Parameters

<i>uC</i>	Microcontroller used
-----------	----------------------

Returns

Elements definitions as String

4.6.1.2 getElements()

```
static String framework.AdcGenerator.getElements (
    Microcontroller uC ) [static]
```

Parameters

<i>uC</i>	Microcontroller used
-----------	----------------------

Returns

Elements list as String

4.6.1.3 getIncludes()

```
static String framework.AdcGenerator.getIncludes (
    Microcontroller uC ) [static]
```

Parameters

<i>uC</i>	Microcontroller used
-----------	----------------------

Returns

Headers needed for GPIO module

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

- `src/framework/AdcGenerator.java`

4.7 configurator.GPIO.AltMode Enum Reference

Static Public Member Functions

- static [AltMode](#) `getConfigFromString` (String conf)

Public Attributes

- [ALT_MODE_ANALOG](#)
- [ALT_MODE_UART](#)
- [ALT_MODE_I2C](#)
- [ALT_MODE_SPI](#)
- [ALT_MODE_NONE](#)
- [ALT_MODE_MAX_VALUE](#)

Static Public Attributes

- static final String [STR_NAME](#) = "AltMode"

4.7.1 Detailed Description

GPIO modes

Author

Miguel Diaz

Version

0.1

4.7.2 Member Function Documentation

4.7.2.1 `getConfigFromString()`

```
static AltMode configurator.GPIO.AltMode.getConfigFromString (  
    String conf ) [static]
```

Get the corresponding mode from its name as String

Parameters

<i>conf</i>	Configuration name
-------------	--------------------

Returns

[Mode](#)

4.7.3 Member Data Documentation

4.7.3.1 ALT_MODE_ANALOG

```
configurator.GPIO.AltMode.ALT_MODE_ANALOG
```

Analog

4.7.3.2 ALT_MODE_I2C

```
configurator.GPIO.AltMode.ALT_MODE_I2C
```

I2C

4.7.3.3 ALT_MODE_MAX_VALUE

```
configurator.GPIO.AltMode.ALT_MODE_MAX_VALUE
```

Maximum value for [Mode](#) enum

4.7.3.4 ALT_MODE_NONE

```
configurator.GPIO.AltMode.ALT_MODE_NONE
```

No alternate mode

4.7.3.5 ALT_MODE_SPI

```
configurator.GPIO.AltMode.ALT_MODE_SPI
```

SPI

4.7.3.6 ALT_MODE_UART

```
configurator.GPIO.AltMode.ALT_MODE_UART
```

UART

4.7.3.7 STR_NAME

```
final String configurator.GPIO.AltMode.STR_NAME = "AltMode" [static]
```

Name as String

The documentation for this enum was generated from the following file:

- `src/configurator/GPIO/AltMode.java`

4.8 framework.CodeGenerator Class Reference

Public Member Functions

- [CodeGenerator](#) ([Microcontroller](#) uC, [ProjectSettings](#) projectSettings)
- [ErrorCode Generate](#) ()

Static Public Attributes

- static final String **STR_TKN_CFG_DEFS_COMMON** = "FWK_GPIO_COMMON_DEFINITIONS"
- static final String **STR_TKN_CFG_DEFS_GPIO** = "FWK_GPIO_CFG_DEFINITIONS"

4.8.1 Detailed Description

Author

ovd

4.8.2 Constructor & Destructor Documentation

4.8.2.1 CodeGenerator()

```
framework.CodeGenerator.CodeGenerator (
    Microcontroller uC,
    ProjectSettings projectSettings )
```

Constructor

Parameters

<i>uC</i>	Project's microcontroller
<i>projectSettings</i>	Project's settings

4.8.3 Member Function Documentation

4.8.3.1 Generate()

```
ErrorCode framework.CodeGenerator.Generate ( )
```

Generate project's configuration files

Returns

Error code

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

- src/framework/CodeGenerator.java

4.9 configurator.GPIO.CodeName Enum Reference

Public Attributes

- [CODE_NAME](#)

Static Public Attributes

- static final String [STR_NAME](#) = "codeName"

4.9.1 Detailed Description

Author

Miguel Diaz

Version

0.1

4.9.2 Member Data Documentation

4.9.2.1 CODE_NAME

```
configurator.GPIO.CodeName.CODE_NAME
```

Code name for pin

4.9.2.2 STR_NAME

```
final String configurator.GPIO.CodeName.STR_NAME = "codeName" [static]
```

Name as String

The documentation for this enum was generated from the following file:

- src/configurator/GPIO/CodeName.java

4.10 framework.Common Class Reference

Static Public Member Functions

- static String [getInstallationFwkPath](#) ()
- static void [setInstallationFwkPath](#) (String installationFwkPath)
- static String [getProjectFwkPath](#) ()
- static void [setProjectFwkPath](#) (String projectFwkPath)
- static String [getCfgPath](#) (String fwkPath, String cfgModule)
- static String [getCfgFileCPath](#) (String fwkPath, String cfgModule)
- static String [getCfgFileHPath](#) (String fwkPath, String cfgModule)
- static String [getFrameworkCommonFilePath](#) (String fwkPath)
- static String [getFrameworkIncludesFilePath](#) (String fwkPath)
- static String [getCommonIncludes](#) (Microcontroller uC)
- static String [getCommonCfgDefinitions](#) (Microcontroller uC)

Static Public Attributes

- static final String [NL](#) = "\r\n"
- static final String [STR_GEN_CODE_NOTICE_HEADER](#)
- static final String [STR_GEN_CODE_NOTICE_FOOTER](#)
- static final String [STR_MODULE_GPIO](#) = "gpio"
- static final String [STR_MODULE_ADC](#) = "adc"
- static final String [STR_MODULE_UART](#) = "uart"
- static final String [STR_DEFINITION](#) = "#define "
- static final String [STR_INCLUDE](#) = "#include "
- static final String [STR_HEADER_EXT](#) = ".h"

4.10.1 Detailed Description

Framework common fields and methods

Author

Miguel Diaz

Version

0.1

4.10.2 Member Function Documentation

4.10.2.1 `getCfgFileCPath()`

```
static String framework.Common.getCfgFileCPath (  
    String fwkPath,  
    String cfgModule ) [static]
```

Get GPIO configuration file path

Parameters

<i>fwkPath</i>	Framework folder path
<i>cfgModule</i>	Configuration module name

Returns

GPIO configuration file path

4.10.2.2 `getCfgFileHPath()`

```
static String framework.Common.getCfgFileHPath (  
    String fwkPath,  
    String cfgModule ) [static]
```

Get GPIO configuration header file path

Parameters

<i>fwkPath</i>	Framework folder path
<i>cfgModule</i>	Configuration module name

Returns

GPIO configuration header file path

4.10.2.3 getCfgPath()

```
static String framework.Common.getCfgPath (  
    String fwkPath,  
    String cfgModule ) [static]
```

Get configuration module files folder path

Parameters

<i>fwkPath</i>	Framework folder path
<i>cfgModule</i>	Configuration module name

Returns

Configuration files folder path

4.10.2.4 getCommonCfgDefinitions()

```
static String framework.Common.getCommonCfgDefinitions (  
    Microcontroller uC ) [static]
```

Get Framework [Common](#) definitions

Parameters

<i>uC</i>	Microcontroller used
-----------	----------------------

Returns

[Common](#) definitions needed for framework

4.10.2.5 `getCommonIncludes()`

```
static String framework.Common.getCommonIncludes (
    Microcontroller uC ) [static]
```

Get Framework common headers

Parameters

<i>uC</i>	Microcontroller used
-----------	----------------------

Returns

Common headers needed for framework

4.10.2.6 `getFrameworkCommonFilePath()`

```
static String framework.Common.getFrameworkCommonFilePath (
    String fwkPath ) [static]
```

Get the framework common header path

Parameters

<i>fwkPath</i>	Framework folder path
----------------	-----------------------

Returns

Framework common header path

4.10.2.7 `getFrameworkIncludesFilePath()`

```
static String framework.Common.getFrameworkIncludesFilePath (
    String fwkPath ) [static]
```

Get the framework includes header path

Parameters

<i>fwkPath</i>	Framework folder path
----------------	-----------------------

Returns

Framework includes header path

4.10.2.8 getInstallationFwkPath()

```
static String framework.Common.getInstallationFwkPath ( ) [static]
```

Get installation framework path

Returns

installation framework path

4.10.2.9 getProjectFwkPath()

```
static String framework.Common.getProjectFwkPath ( ) [static]
```

Get project's framework path

Returns

project's framework path

4.10.2.10 setInstallationFwkPath()

```
static void framework.Common.setInstallationFwkPath (
    String installationFwkPath ) [static]
```

Set installation framework path

Parameters

<i>installationFwkPath</i>	installation framework path
----------------------------	-----------------------------

4.10.2.11 setProjectFwkPath()

```
static void framework.Common.setProjectFwkPath (
    String projectFwkPath ) [static]
```

Set project's framework path

Parameters

<i>projectFwkPath</i>	project's framework path
-----------------------	--------------------------

4.10.3 Member Data Documentation

4.10.3.1 NL

```
final String framework.Common.NL = "\r\n" [static]
```

[Common](#) implementation of New Line

4.10.3.2 STR_DEFINITION

```
final String framework.Common.STR_DEFINITION = "#define " [static]
```

Macro definition String

4.10.3.3 STR_GEN_CODE_NOTICE_FOOTER

```
final String framework.Common.STR_GEN_CODE_NOTICE_FOOTER [static]
```

Initial value:

```
= "// ##### " + Features.GENERATOR_NAME
    + " generator v" + common.Features.SW\_VERSION + ": Generated code! #####" + NL
    + "// ##### Do NOT modify code between this footer and the header above #####"
```

Footer for indicating generated code

4.10.3.4 STR_GEN_CODE_NOTICE_HEADER

```
final String framework.Common.STR_GEN_CODE_NOTICE_HEADER [static]
```

Initial value:

```
= "// ##### " + Features.GENERATOR_NAME  
  + " generator v" + common.Features.SW_VERSION + ": Generated code! #####" + NL  
  + "// ##### Do NOT modify code between this header and the footer below #####"
```

Header for indicating generated code

4.10.3.5 STR_HEADER_EXT

```
final String framework.Common.STR_HEADER_EXT = ".h" [static]
```

Header file extension

4.10.3.6 STR_INCLUDE

```
final String framework.Common.STR_INCLUDE = "#include " [static]
```

Include header file string

4.10.3.7 STR_MODULE_ADC

```
final String framework.Common.STR_MODULE_ADC = "adc" [static]
```

GPIO module name

4.10.3.8 STR_MODULE_GPIO

```
final String framework.Common.STR_MODULE_GPIO = "gpio" [static]
```

GPIO module name

4.10.3.9 STR_MODULE_UART

```
final String framework.Common.STR_MODULE_UART = "uart" [static]
```

GPIO module name

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

- src/framework/Common.java

4.11 configurator.ConfigurationFile Class Reference

Static Public Attributes

- static final String [STR_PROJ_CONF_FILE](#) = "cgs"

4.11.1 Detailed Description

Configuration files properties

Author

Miguel Diaz

Version

0.1

4.11.2 Member Data Documentation

4.11.2.1 STR_PROJ_CONF_FILE

```
final String configurator.ConfigurationFile.STR_PROJ_CONF_FILE = "cgs" [static]
```

Public configuration file extension

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

- src/configurator/ConfigurationFile.java

4.12 xmlCreator.ConfXmlWriter Class Reference

Public Member Functions

- [ConfXmlWriter](#) ([Microcontroller](#) uC)
- void [addPin](#) ([PinConf](#) pin, int pinNum)
- [ErrorCode](#) [writeXml](#) (String fileName)

4.12.1 Detailed Description

Write a XML file

Author

Miguel Diaz

Version

0.1

4.12.2 Constructor & Destructor Documentation

4.12.2.1 ConfXmlWriter()

```
xmlCreator.ConfXmlWriter.ConfXmlWriter (  
    Microcontroller uC )
```

Constructor

Parameters

<i>uC</i>	Microcontroller configuration
-----------	-------------------------------

4.12.3 Member Function Documentation

4.12.3.1 addPin()

```
void xmlCreator.ConfXmlWriter.addPin (  
    PinConf pin,  
    int pinNum )
```

Add a pin configuration to the file

Parameters

<i>pin</i>	Pin configuration
<i>pinNum</i>	Number of GPIO pin

4.12.3.2 writeXml()

```
ErrorCode xmlCreator.ConfXmlWriter.writeXml (
    String fileName )
```

Write the XML file

Parameters

<i>fileName</i>	Name of XML configuration file
-----------------	--------------------------------

Returns

Error status

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

- src/xmlCreator/ConfXmlWriter.java

4.13 common.ErrorCode Enum Reference

Public Attributes

- [NO_ERROR](#)
- [EX_ERROR](#)
- [FILE_READ_ERROR](#)
- [FILE_WRITE_ERROR](#)
- [FILE_CONF_ERROR](#)

Static Public Attributes

- static final String [STR_INVALID](#) = "STR_INVALID"
- static final int [INT_INVALID_INDEX](#) = -1

4.13.1 Detailed Description

Error codes enum

Author

Miguel Diaz

Version

0.1

4.13.2 Member Data Documentation

4.13.2.1 EX_ERROR

```
common.ErrorCode.EX_ERROR
```

Error during execution

4.13.2.2 FILE_CONF_ERROR

```
common.ErrorCode.FILE_CONF_ERROR
```

File configuration error

4.13.2.3 FILE_READ_ERROR

```
common.ErrorCode.FILE_READ_ERROR
```

File reading error

4.13.2.4 FILE_WRITE_ERROR

```
common.ErrorCode.FILE_WRITE_ERROR
```

File writing error

4.13.2.5 INT_INVALID_INDEX

```
final int common.ErrorCode.INT_INVALID_INDEX = -1 [static]
```

Invalid index

4.13.2.6 NO_ERROR

```
common.ErrorCode.NO_ERROR
```

No error message

4.13.2.7 STR_INVALID

```
final String common.ErrorCode.STR_INVALID = "STR_INVALID" [static]
```

Error string

The documentation for this enum was generated from the following file:

- src/common/ErrorCode.java

4.14 common.Features Class Reference

Static Public Member Functions

- static void [verbosePrint](#) (String verboseMessage)
- static void [debugPrint](#) (String debugMessage)

Static Public Attributes

- static final boolean [DEBUG](#) = true
- static final boolean [VERBOSE](#) = true
- static final String [VERBOSE_STR](#) = "# "
- static final String [DEBUG_STR](#) = "#\$ "
- static final String [SW_VERSION](#) = VERSION_MAJOR + "." + VERSION_MINOR + "." + VERSION_PATCH
- static final String [VERSION_STATUS](#) = "Alpha"
- static final String [VERSION_NAME](#) = "Felucia"
- static final String [GENERATOR_NAME](#) = "Kamino"

4.14.1 Detailed Description

Class that includes all project features

Author

Miguel Diaz

Version

0.1

4.14.2 Member Function Documentation

4.14.2.1 debugPrint()

```
static void common.Features.debugPrint (  
    String debugMessage ) [static]
```

Print Debug message to console

Parameters

<i>debugMessage</i>	Message to display
---------------------	--------------------

4.14.2.2 verbosePrint()

```
static void common.Features.verbosePrint (
    String verboseMessage ) [static]
```

Print Verbose message to console

Parameters

<i>verboseMessage</i>	Message to display
-----------------------	--------------------

4.14.3 Member Data Documentation**4.14.3.1 DEBUG**

```
final boolean common.Features.DEBUG = true [static]
```

Enables debug functions

4.14.3.2 DEBUG_STR

```
final String common.Features.DEBUG_STR = "#$ " [static]
```

Debug messages indicator on system console

4.14.3.3 SW_VERSION

```
final String common.Features.SW_VERSION = VERSION_MAJOR + "." + VERSION_MINOR + "." + VERSION_PATCH + " " [static]
```

Complete Software version

4.14.3.4 VERBOSE

```
final boolean common.Features.VERBOSE = true [static]
```

Enables console messages

4.14.3.5 VERBOSE_STR

```
final String common.Features.VERBOSE_STR = "# " [static]
```

Verbose messages indicator on system console

4.14.3.6 VERSION_NAME

```
final String common.Features.VERSION_NAME = "Felucia" [static]
```

Code name of the software version

4.14.3.7 VERSION_STATUS

```
final String common.Features.VERSION_STATUS = "Alpha" [static]
```

Status of the software version

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

- src/common/Features.java

4.15 common.GeneralSettings Class Reference

Static Public Member Functions

- static void **initLog** ()

Static Public Attributes

- static final String **LOG_NAME_SUFFIX** = "_log.log"
- static final String **logFilePath**
- static File **logFile**
- static BufferedWriter **logWriter**
- static boolean **LOG_FILE** = true

4.15.1 Member Data Documentation

4.15.1.1 logFilePath

```
final String common.GeneralSettings.logFilePath [static]
```

Initial value:

```
= System.getProperty("user.dir") + System.getProperty("file.separator")  
  + "logs"
```

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

- src/common/GeneralSettings.java

4.16 gui.GeneralSettingsWindow Class Reference

Public Member Functions

- [GeneralSettingsWindow](#) ([GeneralSettings](#) settings)

Static Public Member Functions

- static void [main](#) (String[] args)

4.16.1 Constructor & Destructor Documentation

4.16.1.1 GeneralSettingsWindow()

```
gui.GeneralSettingsWindow.GeneralSettingsWindow (  
    GeneralSettings settings )
```

Create the application.

4.16.2 Member Function Documentation

4.16.2.1 main()

```
static void gui.GeneralSettingsWindow.main (
    String[] args ) [static]
```

Launch the application.

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

- src/gui/GeneralSettingsWindow.java

4.17 gui.GpioConfWindow Class Reference

Public Member Functions

- [GpioConfWindow](#) ([Microcontroller](#) uCtrl)

Static Public Member Functions

- static void [main](#) (String[] args)

4.17.1 Detailed Description

Window for configuring GPIO pins

Author

Miguel Diaz

Version

0.1

4.17.2 Constructor & Destructor Documentation

4.17.2.1 GpioConfWindow()

```
gui.GpioConfWindow.GpioConfWindow (
    Microcontroller uCtrl )
```

Create the GPIO configuration window and show it

Parameters

<i>uCtrl</i>	Microcontroller object containing all pin's information
--------------	---

4.17.3 Member Function Documentation

4.17.3.1 main()

```
static void gui.GpioConfWindow.main (
    String[] args ) [static]
```

Gpio configuration window main

Parameters

<i>args</i>	Init parameters
-------------	-----------------

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

- src/gui/GpioConfWindow.java

4.18 gui.MainGui Class Reference

Static Public Member Functions

- static void [main](#) (String[] args)
- static [ErrorCode](#) [loadProjectFile](#) (File inFile)
- static void [showErrorDialog](#) (String message)
- static void [showAboutWindow](#) ()
- static void [showGpioConfWindow](#) ()
- static void [showAdcConfWindow](#) ()
- static void [showUartConfWindow](#) ()
- static void [showProjectPreferencesWindow](#) ()
- static void [showGeneralSettingsWindow](#) ()
- static void [setNewUC](#) (Microcontroller uC)
- static void [saveProjectPreferences](#) (ProjectSettings preferences)
- static void [saveGeneralSettings](#) (GeneralSettings settings)
- static void [saveUc](#) ()
- static [ErrorCode](#) [generateCode](#) ()

Static Public Attributes

- static File [ProjectFile](#)
- static String [ProjectPath](#)

4.18.1 Detailed Description

Main GUI state machine

Author

Miguel Diaz

Version

0.1

4.18.2 Member Function Documentation

4.18.2.1 generateCode()

```
static ErrorCode gui.MainGui.generateCode ( ) [static]
```

Generate source code files

Returns

Error code

4.18.2.2 loadProjectFile()

```
static ErrorCode gui.MainGui.loadProjectFile (  
    File inFile ) [static]
```

Load the project settings file

Parameters

<i>inFile</i>	Settings file
---------------	---------------

Returns

Error status

4.18.2.3 main()

```
static void gui.MainGui.main (
    String[] args ) [static]
```

Parameters

<i>args</i>	TBD
-------------	-----

4.18.2.4 saveGeneralSettings()

```
static void gui.MainGui.saveGeneralSettings (
    GeneralSettings settings ) [static]
```

Save the General Settings

Parameters

<i>settings</i>	General Settings
-----------------	------------------

4.18.2.5 saveProjectPreferences()

```
static void gui.MainGui.saveProjectPreferences (
    ProjectSettings preferences ) [static]
```

Save the project's preferences

Parameters

<i>preferences</i>	Project's preferences
--------------------	-----------------------

4.18.2.6 saveUc()

```
static void gui.MainGui.saveUc ( ) [static]
```

Save the microcontroller's configuration to disk

4.18.2.7 setNewUC()

```
static void gui.MainGui.setNewUC (
    Microcontroller uC ) [static]
```

Set the project's microcontroller configuration

Parameters

<i>uC</i>	Microcontroller configuration
-----------	-------------------------------

4.18.2.8 showAboutWindow()

```
static void gui.MainGui.showAboutWindow ( ) [static]
```

Show about information window

4.18.2.9 showAdcConfWindow()

```
static void gui.MainGui.showAdcConfWindow ( ) [static]
```

Show the ADCs configuration window

4.18.2.10 showErrorDialog()

```
static void gui.MainGui.showErrorDialog (
    String message ) [static]
```

Show an error dialog

Parameters

<i>message</i>	Message to display
----------------	--------------------

4.18.2.11 showGeneralSettingsWindow()

```
static void gui.MainGui.showGeneralSettingsWindow ( ) [static]
```

Show the General Settings window

4.18.2.12 showGpioConfWindow()

```
static void gui.MainGui.showGpioConfWindow ( ) [static]
```

Show the GPIOs configuration window

4.18.2.13 showProjectPreferencesWindow()

```
static void gui.MainGui.showProjectPreferencesWindow ( ) [static]
```

Show the Project Preferences window

4.18.2.14 showUartConfWindow()

```
static void gui.MainGui.showUartConfWindow ( ) [static]
```

Show the UARTs configuration window

4.18.3 Member Data Documentation

4.18.3.1 ProjectFile

```
File gui.MainGui.ProjectFile [static]
```

Project configuration file

4.18.3.2 ProjectPath

```
String gui.MainGui.ProjectPath [static]
```

Project's location

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

- src/gui/MainGui.java

4.19 gui.MainWindow Class Reference

Public Member Functions

- [MainWindow](#) ()
- void [setVisible](#) (boolean status)
- File [OpenFileChooser](#) (String initialPath, String title, FileNameExtensionFilter fileFilter)
- [ErrorCode](#) [setProjectInformation](#) ([Microcontroller](#) uC, String projectName)

Static Public Member Functions

- static void [main](#) (String[] args)

Public Attributes

- JFrame [FrmCodeGenerator](#)

4.19.1 Detailed Description

Main application window

Author

Miguel Diaz

Version

0.1

4.19.2 Constructor & Destructor Documentation

4.19.2.1 MainWindow()

```
gui.MainWindow.MainWindow ( )
```

Create the application.

4.19.3 Member Function Documentation

4.19.3.1 main()

```
static void gui.MainWindow.main (
    String[] args ) [static]
```

Open main window

Parameters

<i>args</i>	To be determined
-------------	------------------

4.19.3.2 OpenFileChooser()

```
File gui.MainWindow.OpenFileChooser (
    String initialPath,
    String title,
    FileNameExtensionFilter fileFilter )
```

Open file chooser dialog and get the selected file

Parameters

<i>initialPath</i>	Path to search the file in
<i>title</i>	Dialog title
<i>fileFilter</i>	Extension filter

Returns

Selected file

4.19.3.3 setProjectInformation()

```
ErrorCode gui.MainWindow.setProjectInformation (
    Microcontroller uC,
    String projectName )
```

Set Project's name in its label

Parameters

<i>projectName</i>	Project's name
<i>ucManufacturer</i>	Microcontroller's manufacturer
<i>ucName</i>	Microcontroller's model

Returns

Error status

4.19.3.4 setVisible()

```
void gui.MainWindow.setVisible (
    boolean status )
```

Set visibility of About window

Parameters

<i>status</i>	true if visible
---------------	-----------------

4.19.4 Member Data Documentation

4.19.4.1 FrmCodeGenerator

```
JFrame gui.MainWindow.FrmCodeGenerator
```

Frame for the main Window

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

- src/gui/MainWindow.java

4.20 gui.Messages Class Reference

Static Public Member Functions

- static String [getString](#) (String key)

4.20.1 Detailed Description

[Messages](#) window

Author

ovd

4.20.2 Member Function Documentation

4.20.2.1 getString()

```
static String gui.Messages.getString (
    String key ) [static]
```

Get String

Parameters

<i>key</i>	Key
------------	-----

Returns

String

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

- src/gui/Messages.java

4.21 microcontroller.Microcontroller Class Reference

Public Member Functions

- [Microcontroller](#) (Document ucDoc)
- [ErrorCode](#) [processDocument](#) ()
- [ErrorCode](#) [loadPinsConf](#) (Document confDoc)
- [ErrorCode](#) [loadAdcsConf](#) (Document confDoc)
- [ErrorCode](#) [loadAdcChannelsConf](#) (Document confDoc)
- [ErrorCode](#) [loadUartsConf](#) (Document confDoc)
- [Pin](#) [getPin](#) (int pinNum)
- String [getUc_model](#) ()
- String [getUc_manufacturer](#) ()
- int [getUc_pinNum](#) ()
- int [getUc_gpioNum](#) ()
- int [getUc_portNum](#) ()
- int [getUc_adcNum](#) ()
- int [getUc_uartNum](#) ()
- int [getUc_selectedPinsNum](#) ()
- int [getUc_selectedAdcsNum](#) ()
- int [getUc_selectedUartsNum](#) ()
- [PinConf](#) [getConfiguredPin](#) (String gpioName)
- boolean [isValid](#) ()

Public Attributes

- String[] [Ports](#)
- String[] [Includes_Common](#)
- String[] [Includes_Gpio](#)
- String[] [Includes_Adc](#)
- String[] [Includes_Uart](#)
- String[] [Definitions_Common](#)
- String[] [Definitions_Gpio](#)
- String[] [Definitions_Adc](#)
- String[] [Definitions_Uart](#)
- [PinConf](#)[] [GpioCfgPin](#)
- String[] [Adcs](#)
- [AdcConf](#)[] [AdcCfg](#)
- String[] [Uarts](#)
- [UartConf](#)[] [UartCfg](#)

Static Public Attributes

- static final int [MAX_NUMBER_OF_PINS_PER_PORT](#) = 32
- static final int [MAX_NUMBER_OF_ADCS](#) = 16
- static final int [MAX_NUMBER_OF_UARTS](#) = 16

4.21.1 Detailed Description

[Microcontroller](#) related methods

Author

Miguel Diaz

Version

0.1

4.21.2 Constructor & Destructor Documentation

4.21.2.1 Microcontroller()

```
microcontroller.Microcontroller.Microcontroller (
    Document ucDoc )
```

Constructor

Parameters

<i>ucDoc</i>	Document obtained from XML file
--------------	---------------------------------

4.21.3 Member Function Documentation

4.21.3.1 getConfiguredPin()

```
PinConf microcontroller.Microcontroller.getConfiguredPin (
    String gpioName )
```

Get the configuration of a pin

Parameters

<i>gpioName</i>	Name of the pin
-----------------	-----------------

Returns

Pin configuration

4.21.3.2 getPin()

```
Pin microcontroller.Microcontroller.getPin (
    int pinNum )
```

Get a pin's characteristics

Parameters

<i>pinNum</i>	Number of pin
---------------	---------------

Returns

Pin's characteristics

4.21.3.3 getUc_adcNum()

```
int microcontroller.Microcontroller.getUc_adcNum ( )
```

Get the number of ADCs in the microcontroller

Returns

Number of ADCs

4.21.3.4 getUc_gpioNum()

```
int microcontroller.Microcontroller.getUc_gpioNum ( )
```

Get the number of GPIOs in the microcontroller

Returns

Number of GPIOs

4.21.3.5 `getUc_manufacturer()`

```
String microcontroller.Microcontroller.getUc_manufacturer ( )
```

Get the microcontroller's manufacturer

Returns

[Microcontroller](#)'s manufacturer

4.21.3.6 `getUc_model()`

```
String microcontroller.Microcontroller.getUc_model ( )
```

Get the microcontroller's model

Returns

[Microcontroller](#)'s model

4.21.3.7 `getUc_pinNum()`

```
int microcontroller.Microcontroller.getUc_pinNum ( )
```

Get the microcontroller's pins number

Returns

Number of pins

4.21.3.8 `getUc_portNum()`

```
int microcontroller.Microcontroller.getUc_portNum ( )
```

Get the number of ports in the microcontroller

Returns

Number of ports

4.21.3.9 getUc_selectedAdcsNum()

```
int microcontroller.Microcontroller.getUc_selectedAdcsNum ( )
```

Get the total ADCs selected

Returns

Total of ADCs selected

4.21.3.10 getUc_selectedPinsNum()

```
int microcontroller.Microcontroller.getUc_selectedPinsNum ( )
```

Get the total pins selected

Returns

Total of pins selected

4.21.3.11 getUc_selectedUartsNum()

```
int microcontroller.Microcontroller.getUc_selectedUartsNum ( )
```

Get the total UARTs selected

Returns

Total of UARTs selected

4.21.3.12 getUc_uartNum()

```
int microcontroller.Microcontroller.getUc_uartNum ( )
```

Get the number of UARTs in the microcontroller

Returns

Number of UARTs

4.21.3.13 isValid()

```
boolean microcontroller.Microcontroller.isValid ( )
```

Check if the microcontroller configuration is valid

Returns

true if valid

4.21.3.14 loadAdcChannelsConf()

```
ErrorCode microcontroller.Microcontroller.loadAdcChannelsConf (
    Document confDoc )
```

Load ADC channels

Parameters

<i>confDoc</i>	Configuration document
----------------	------------------------

Returns

Error code

4.21.3.15 loadPinsConf()

```
ErrorCode microcontroller.Microcontroller.loadPinsConf (
    Document confDoc )
```

Load pins' configuration

Parameters

<i>confDoc</i>	Document with pins
----------------	--------------------

Returns

Error Code

4.21.3.16 processDocument()

```
ErrorCode microcontroller.Microcontroller.processDocument ( )
```

Process the document obtained from XML file

Returns

Error status

4.21.4 Member Data Documentation

4.21.4.1 AdcCfg

```
AdcConf [ ] microcontroller.Microcontroller.AdcCfg
```

Configured ADCs list

4.21.4.2 Adcs

```
String [ ] microcontroller.Microcontroller.Adcs
```

List of ADCs

4.21.4.3 Definitions_Adc

```
String [ ] microcontroller.Microcontroller.Definitions_Adc
```

List of definitions for ADC module

4.21.4.4 Definitions_Common

```
String [ ] microcontroller.Microcontroller.Definitions_Common
```

List of common definitions that will be available for all framework

4.21.4.5 Definitions_Gpio

```
String [ ] microcontroller.Microcontroller.Definitions_Gpio
```

List of definitions for GPIO module

4.21.4.6 Definitions_Uart

```
String [] microcontroller.Microcontroller.Definitions_Uart
```

List of definitions for UART module

4.21.4.7 GpioCfgPin

```
PinConf [] microcontroller.Microcontroller.GpioCfgPin
```

Configured pins list

4.21.4.8 Includes_Adc

```
String [] microcontroller.Microcontroller.Includes_Adc
```

List of Includes for ADC module

4.21.4.9 Includes_Common

```
String [] microcontroller.Microcontroller.Includes_Common
```

List of common includes that will be available for all framework

4.21.4.10 Includes_Gpio

```
String [] microcontroller.Microcontroller.Includes_Gpio
```

List of Includes for GPIO module

4.21.4.11 Includes_Uart

```
String [] microcontroller.Microcontroller.Includes_Uart
```

List of Includes for UART module

4.21.4.12 MAX_NUMBER_OF_ADCS

```
final int microcontroller.Microcontroller.MAX_NUMBER_OF_ADCS = 16 [static]
```

Maximum number of ADCs allowed

4.21.4.13 MAX_NUMBER_OF_PINS_PER_PORT

```
final int microcontroller.Microcontroller.MAX_NUMBER_OF_PINS_PER_PORT = 32 [static]
```

Maximum number of pins allowed in a single port

4.21.4.14 MAX_NUMBER_OF_UARTS

```
final int microcontroller.Microcontroller.MAX_NUMBER_OF_UARTS = 16 [static]
```

Maximum number of ADCs allowed

4.21.4.15 Ports

```
String [] microcontroller.Microcontroller.Ports
```

Ports name list

4.21.4.16 UartCfg

```
UartConf [] microcontroller.Microcontroller.UartCfg
```

Configured UARTs list

4.21.4.17 Uarts

```
String [] microcontroller.Microcontroller.Uarts
```

List of UARTs

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

- src/microcontroller/Microcontroller.java

4.22 configurator.GPIO.Mode Enum Reference

Static Public Member Functions

- static [Mode getConfigFromString](#) (String conf)

Public Attributes

- [MODE_INPUT](#)
- [MODE_OUTPUT](#)
- [MODE_ALTERNATE_FUNCTION](#)
- [MODE_MAX_VALUE](#)

Static Public Attributes

- static final String [STR_NAME](#) = "Mode"

4.22.1 Detailed Description

GPIO modes

Author

Miguel Diaz

Version

0.1

4.22.2 Member Function Documentation

4.22.2.1 `getConfFromString()`

```
static Mode configurator.GPIO.Mode.getConfFromString (
    String conf ) [static]
```

Get the corresponding mode from its name as String

Parameters

<i>conf</i>	Configuration name
-------------	--------------------

Returns

[Mode](#)

4.22.3 Member Data Documentation

4.22.3.1 MODE_ALTERNATE_FUNCTION

```
configurator.GPIO.Mode.MODE_ALTERNATE_FUNCTION
```

Alternate function

4.22.3.2 MODE_INPUT

```
configurator.GPIO.Mode.MODE_INPUT
```

Input

4.22.3.3 MODE_MAX_VALUE

```
configurator.GPIO.Mode.MODE_MAX_VALUE
```

Maximum value for [Mode](#) enum

4.22.3.4 MODE_OUTPUT

```
configurator.GPIO.Mode.MODE_OUTPUT
```

Output

4.22.3.5 STR_NAME

```
final String configurator.GPIO.Mode.STR_NAME = "Mode" [static]
```

Name as String

The documentation for this enum was generated from the following file:

- src/configurator/GPIO/Mode.java

4.23 configurator.GPIO.OutLevel Enum Reference

Static Public Member Functions

- static [OutLevel](#) `getConfigFromString` (String *conf*)

Public Attributes

- [LOW](#)
- [HIGH](#)
- [MAX_VALUE](#)

Static Public Attributes

- static final String [STR_NAME](#) = "OutLevel"

4.23.1 Detailed Description

Pin's output/input level

Author

Miguel Diaz

Version

0.1

4.23.2 Member Function Documentation

4.23.2.1 `getConfigFromString()`

```
static OutLevel configurator.GPIO.OutLevel.getConfigFromString (  
    String conf ) [static]
```

Get the corresponding mode from its name as String

Parameters

<i>conf</i>	Configuration name
-------------	--------------------

Returns

level

4.23.3 Member Data Documentation

4.23.3.1 HIGH

```
configurator.GPIO.OutLevel.HIGH
```

High, logical 1, Vcc

4.23.3.2 LOW

```
configurator.GPIO.OutLevel.LOW
```

Low, logical 0, Ground

4.23.3.3 MAX_VALUE

```
configurator.GPIO.OutLevel.MAX_VALUE
```

Maximum value for [OutLevel](#) enum

4.23.3.4 STR_NAME

```
final String configurator.GPIO.OutLevel.STR_NAME = "OutLevel" [static]
```

Name as String

The documentation for this enum was generated from the following file:

- `src/configurator/GPIO/OutLevel.java`

4.24 configurator.GPIO.OutType Enum Reference

Static Public Member Functions

- static [OutType](#) `getConfFromString` (String conf)

Public Attributes

- [OTYPE_PUSH_PULL](#)
- [OTYPE_OPEN_DRAIN](#)
- [OTYPE_NOT_AVAILABLE](#)
- [OTYPE_MAX_VALUE](#)

Static Public Attributes

- static final String [STR_NAME](#) = "OutType"

4.24.1 Detailed Description

Pin's output type

Author

Miguel Diaz

Version

0.1

4.24.2 Member Function Documentation

4.24.2.1 `getConfFromString()`

```
static OutType configurator.GPIO.OutType.getConfFromString (  
    String conf ) [static]
```

Get the corresponding output type from its name as String

Parameters

<i>conf</i>	Configuration name
-------------	--------------------

Returns

Output type

4.24.3 Member Data Documentation

4.24.3.1 OTYPE_MAX_VALUE

```
configurator.GPIO.OutType.OTYPE_MAX_VALUE
```

Maximum value for [OutType](#) enum

4.24.3.2 OTYPE_NOT_AVAILABLE

```
configurator.GPIO.OutType.OTYPE_NOT_AVAILABLE
```

If the pin is configured as input

4.24.3.3 OTYPE_OPEN_DRAIN

```
configurator.GPIO.OutType.OTYPE_OPEN_DRAIN
```

Open Drain

4.24.3.4 OTYPE_PUSH_PULL

```
configurator.GPIO.OutType.OTYPE_PUSH_PULL
```

Push [Pull](#), totem

4.24.3.5 STR_NAME

```
final String configurator.GPIO.OutType.STR_NAME = "OutType" [static]
```

Name as String

The documentation for this enum was generated from the following file:

- src/configurator/GPIO/OutType.java

4.25 microcontroller.Pin Class Reference

Public Member Functions

- [Pin](#) ()
- void [setFunc_vcc](#) (boolean funcState)
- boolean [getFunc_vcc](#) ()
- void [setFunc_gnd](#) (boolean funcState)
- boolean [getFunc_gnd](#) ()
- void [setFunc_gpio](#) (boolean funcState)
- boolean [getFunc_gpio](#) ()
- void [setFunc_reset](#) (boolean funcState)
- boolean [getFunc_reset](#) ()
- void [setFunc_misc](#) (boolean funcState)
- boolean [getFunc_misc](#) ()
- void [setFeat_int](#) (boolean featState)
- boolean [getFeat_int](#) ()
- void [setFeat_adc](#) (boolean featState)
- boolean [getFeat_adc](#) ()
- void [setFeat_uart](#) (boolean featState)
- boolean [getFeat_uart](#) ()
- void [setFeat_i2c](#) (boolean featState)
- boolean [getFeat_i2c](#) ()
- void [setFeat_spi](#) (boolean featState)
- boolean [getFeat_spi](#) ()
- void [setFeat_clock](#) (boolean featState)
- boolean [getFeat_clock](#) ()
- void [setFeat_timer](#) (boolean featState)
- boolean [getFeat_timer](#) ()
- void [setFeat_reset](#) (boolean featState)
- boolean [getFeat_reset](#) ()
- void [setInt](#) (String feature)
- String [getInt](#) ()
- void [setAdc](#) (String instance, String channel)
- String [getAdc](#) ()
- String [getAdcChannel](#) ()
- void [setUart](#) (String feature)
- String [getUart](#) ()
- void [setI2c](#) (String feature)
- String [getI2c](#) ()
- void [setSpi](#) (String feature)
- String [getSpi](#) ()
- void [setClock](#) (String feature)
- String [getClock](#) ()
- void [setReset](#) (String feature)
- String [getReset](#) ()
- void [setTimer](#) (String feature)
- String [getTimer](#) ()
- void [setName](#) (String pinName)
- String [getName](#) ()

- void [setNumber](#) (int pinNum)
- int [getNumber](#) ()
- String [getPortPin](#) ()
- void [setPortPin](#) (String portPin)
- void [setPort](#) (String pinPort)
- String [getPort](#) ()
- boolean [isValid](#) ()

Static Public Attributes

- static final boolean [ENABLE](#) = true
- static final boolean [DISABLE](#) = false
- static final boolean [DEF_FUNCTION](#) = DEF_BOOLEAN
- static final boolean [DEF_FEATURE_AV](#) = DEF_BOOLEAN
- static final String [DEF_FEATURE](#) = DEF_STRING
- static final String [DEF_NAME](#) = DEF_STRING
- static final int [DEF_NUMBER](#) = DEF_INT
- static final String [DEF_PORT](#) = DEF_STRING

4.25.1 Detailed Description

Basic pin object.

- [Pin](#) necessary characteristics:
 - Name
 - Number
- [Pin](#) optional characteristics:
 - Port
- [Pin](#) main functions:
 - VCC
 - GND
 - GPIO
 - RESET
 - MISC
- [Pin](#) features:
 - Interruption
 - ADC
 - UART
 - I2C
 - SPI
 - Clock
 - Reset

Author

Miguel Diaz

Version

0.1

4.25.2 Constructor & Destructor Documentation

4.25.2.1 Pin()

```
microcontroller.Pin.Pin ( )
```

Initialize all pin's characteristics and features to their default values

4.25.3 Member Function Documentation

4.25.3.1 getAdc()

```
String microcontroller.Pin.getAdc ( )
```

Get the pin's ADC name

Returns

[Pin's ADC](#)

4.25.3.2 getAdcChannel()

```
String microcontroller.Pin.getAdcChannel ( )
```

Get the pin's ADC channel

Returns

[Pin's ADC channel](#)

4.25.3.3 getClock()

```
String microcontroller.Pin.getClock ( )
```

Get the pin's clock name

Returns

Pin's clock

4.25.3.4 getFeat_adc()

```
boolean microcontroller.Pin.getFeat_adc ( )
```

See if the pin has an ADC

Returns

Feature availability

4.25.3.5 getFeat_clock()

```
boolean microcontroller.Pin.getFeat_clock ( )
```

See if the pin supports a clock

Returns

Feature availability

4.25.3.6 getFeat_i2c()

```
boolean microcontroller.Pin.getFeat_i2c ( )
```

See if the pin has I2C

Returns

Feature availability

4.25.3.7 `getFeat_int()`

```
boolean microcontroller.Pin.getFeat_int ( )
```

See if the pin has an interruption

Returns

Feature availability

4.25.3.8 `getFeat_reset()`

```
boolean microcontroller.Pin.getFeat_reset ( )
```

See if the pin has a reset feature

Returns

Feature availability

4.25.3.9 `getFeat_spi()`

```
boolean microcontroller.Pin.getFeat_spi ( )
```

See if the pin has SPI

Returns

Feature availability

4.25.3.10 `getFeat_timer()`

```
boolean microcontroller.Pin.getFeat_timer ( )
```

See if the pin supports a timer

Returns

Feature availability

4.25.3.11 getFeat_uart()

```
boolean microcontroller.Pin.getFeat_uart ( )
```

See if the pin has a UART

Returns

Feature availability

4.25.3.12 getFunc_gnd()

```
boolean microcontroller.Pin.getFunc_gnd ( )
```

See if the pin is GND

Returns

Function availability

4.25.3.13 getFunc_gpio()

```
boolean microcontroller.Pin.getFunc_gpio ( )
```

See if the pin is GPIO

Returns

Function availability

4.25.3.14 getFunc_misc()

```
boolean microcontroller.Pin.getFunc_misc ( )
```

See if the pin is MISC

Returns

Function availability

4.25.3.15 getFunc_reset()

```
boolean microcontroller.Pin.getFunc_reset ( )
```

See if the pin is RESET

Returns

Function availability

4.25.3.16 getFunc_vcc()

```
boolean microcontroller.Pin.getFunc_vcc ( )
```

See if the pin is Vcc

Returns

Function availability

4.25.3.17 getI2c()

```
String microcontroller.Pin.getI2c ( )
```

Get the pin's I2C name

Returns

[Pin's I2C](#)

4.25.3.18 getInt()

```
String microcontroller.Pin.getInt ( )
```

Get the pin's interruption name

Returns

[Pin's interruption](#)

4.25.3.19 getName()

```
String microcontroller.Pin.getName ( )
```

Get the pin's name

Returns

Pin's name

4.25.3.20 getNumber()

```
int microcontroller.Pin.getNumber ( )
```

Get the pin's number

Returns

Pin's number

4.25.3.21 getPort()

```
String microcontroller.Pin.getPort ( )
```

Get the pin's port

Returns

Pin's port

4.25.3.22 getPortPin()

```
String microcontroller.Pin.getPortPin ( )
```

Get port pin number

Returns

port pin number

4.25.3.23 `getReset()`

```
String microcontroller.Pin.getReset ( )
```

Get the pin's reset name

Returns

[Pin's reset](#)

4.25.3.24 `getSpi()`

```
String microcontroller.Pin.getSpi ( )
```

Get the pin's SPI name

Returns

[Pin's SPI](#)

4.25.3.25 `getTimer()`

```
String microcontroller.Pin.getTimer ( )
```

Get the pin's timer name

Returns

[Pin's timer](#)

4.25.3.26 `getUart()`

```
String microcontroller.Pin.getUart ( )
```

Get the pin's UART name

Returns

[Pin's UART](#)

4.25.3.27 isValid()

```
boolean microcontroller.Pin.isValid ( )
```

Check if the pin is correctly initialized

Returns

True if the pin is correctly initialized

4.25.3.28 setAdc()

```
void microcontroller.Pin.setAdc (
    String instance,
    String channel )
```

Set the pin's ADC

Parameters

<i>feature</i>	Pin's ADC
----------------	-----------

4.25.3.29 setClock()

```
void microcontroller.Pin.setClock (
    String feature )
```

Set the pin's clock

Parameters

<i>feature</i>	Pin's clock
----------------	-------------

4.25.3.30 setFeat_adc()

```
void microcontroller.Pin.setFeat_adc (
    boolean featState )
```

Set the pin's ADC feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.25.3.31 setFeat_clock()

```
void microcontroller.Pin.setFeat_clock (  
    boolean featState )
```

Set the pin's Clock feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.25.3.32 setFeat_i2c()

```
void microcontroller.Pin.setFeat_i2c (  
    boolean featState )
```

Set the pin's I2C feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.25.3.33 setFeat_int()

```
void microcontroller.Pin.setFeat_int (  
    boolean featState )
```

Set the pin's interruption feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.25.3.34 setFeat_reset()

```
void microcontroller.Pin.setFeat_reset (
    boolean featState )
```

Set the pin's reset feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.25.3.35 setFeat_spi()

```
void microcontroller.Pin.setFeat_spi (
    boolean featState )
```

Set the pin's SPI feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.25.3.36 setFeat_timer()

```
void microcontroller.Pin.setFeat_timer (
    boolean featState )
```

Set the pin's timer feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.25.3.37 setFeat_uart()

```
void microcontroller.Pin.setFeat_uart (
```

```
boolean featState )
```

Set the pin's UART feature

Parameters

<i>featState</i>	Feature availability
------------------	----------------------

4.25.3.38 setFunc_gnd()

```
void microcontroller.Pin.setFunc_gnd (
    boolean funcState )
```

Set the pin to GND status

Parameters

<i>funcState</i>	Function availability
------------------	-----------------------

4.25.3.39 setFunc_gpio()

```
void microcontroller.Pin.setFunc_gpio (
    boolean funcState )
```

Set the pin to GPIO status

Parameters

<i>funcState</i>	Function availability
------------------	-----------------------

4.25.3.40 setFunc_misc()

```
void microcontroller.Pin.setFunc_misc (
    boolean funcState )
```

Set the pin to MISC status

Parameters

<i>funcState</i>	Function availability
------------------	-----------------------

4.25.3.41 setFunc_reset()

```
void microcontroller.Pin.setFunc_reset (
    boolean funcState )
```

Set the pin to RESET status

Parameters

<i>funcState</i>	Function availability
------------------	-----------------------

4.25.3.42 setFunc_vcc()

```
void microcontroller.Pin.setFunc_vcc (
    boolean funcState )
```

Set the pin to Vcc status

Parameters

<i>funcState</i>	Function availability
------------------	-----------------------

4.25.3.43 setI2c()

```
void microcontroller.Pin.setI2c (
    String feature )
```

Set the pin's I2C

Parameters

<i>feature</i>	Pin's I2C
----------------	-----------

4.25.3.44 `setInt()`

```
void microcontroller.Pin.setInt (
    String feature )
```

Set the pin's interruption

Parameters

<i>feature</i>	Pin's interruption
----------------	--------------------

4.25.3.45 `setName()`

```
void microcontroller.Pin.setName (
    String pinName )
```

Set the pin's name

Parameters

<i>pinName</i>	Pin's name
----------------	------------

4.25.3.46 `setNumber()`

```
void microcontroller.Pin.setNumber (
    int pinNum )
```

Set the pin's number

Parameters

<i>pinNum</i>	Pin's number
---------------	--------------

4.25.3.47 `setPort()`

```
void microcontroller.Pin.setPort (
```



```
String pinPort )
```

Set the pin's port

Parameters

<i>pinPort</i>	Pin's port
----------------	------------

4.25.3.48 setPortPin()

```
void microcontroller.Pin.setPortPin (
    String portPin )
```

Set port pin number

Parameters

<i>portPin</i>	Port pin number
----------------	-----------------

4.25.3.49 setReset()

```
void microcontroller.Pin.setReset (
    String feature )
```

Set the pin's reset

Parameters

<i>feature</i>	Pin's reset
----------------	-------------

4.25.3.50 setSpi()

```
void microcontroller.Pin.setSpi (
    String feature )
```

Set the pin's SPI

Parameters

<i>feature</i>	Pin's SPI
----------------	---------------------------

4.25.3.51 setTimer()

```
void microcontroller.Pin.setTimer (  
    String feature )
```

Set the pin's timer

Parameters

<i>feature</i>	Pin's timer
----------------	-----------------------------

4.25.3.52 setUart()

```
void microcontroller.Pin.setUart (  
    String feature )
```

Set the pin's UART

Parameters

<i>feature</i>	Pin's UART
----------------	----------------------------

4.25.4 Member Data Documentation**4.25.4.1 DEF_FEATURE**

```
final String microcontroller.Pin.DEF_FEATURE = DEF_STRING [static]
```

Default value for pin's feature as not available

4.25.4.2 DEF_FEATURE_AV

```
final boolean microcontroller.Pin.DEF_FEATURE_AV = DEF_BOOLEAN [static]
```

Default value for pin's feature availability as not available

4.25.4.3 DEF_FUNCTION

```
final boolean microcontroller.Pin.DEF_FUNCTION = DEF_BOOLEAN [static]
```

Default value for pin's function as not enabled

4.25.4.4 DEF_NAME

```
final String microcontroller.Pin.DEF_NAME = DEF_STRING [static]
```

Default value for pin's name

4.25.4.5 DEF_NUMBER

```
final int microcontroller.Pin.DEF_NUMBER = DEF_INT [static]
```

Default value for pin's number

4.25.4.6 DEF_PORT

```
final String microcontroller.Pin.DEF_PORT = DEF_STRING [static]
```

Default value for pin's port

4.25.4.7 DISABLE

```
final boolean microcontroller.Pin.DISABLE = false [static]
```

Disable value for features and functions

4.25.4.8 ENABLE

```
final boolean microcontroller.Pin.ENABLE = true [static]
```

Enable value for features and functions

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

- src/microcontroller/Pin.java

4.26 configurator.PinConf Class Reference

Public Member Functions

- [PinConf](#) ([Pin](#) gpioPin)
- boolean [isValid](#) ()
- String [getPort](#) ()
- String [getPortPin](#) ()
- String [getPinName](#) ()
- String [getCodeName](#) ()
- void [setCodeName](#) (String name)
- [Selected](#) [getSelected](#) ()
- void [setSelected](#) ([Selected](#) selection)
- [Mode](#) [getMode](#) ()
- void [setMode](#) ([Mode](#) mode)
- [AltMode](#) [getAltMode](#) ()
- void [setAltMode](#) ([AltMode](#) altMode)
- [OutType](#) [getOutType](#) ()
- void [setOutType](#) ([OutType](#) outType)
- [OutLevel](#) [getOutLevel](#) ()
- void [setOutLevel](#) ([OutLevel](#) level)
- [Speed](#) [getSpeed](#) ()
- void [setSpeed](#) ([Speed](#) speed)
- [Pull](#) [getPull](#) ()
- void [setPull](#) ([Pull](#) pull)
- boolean [isAv_Adc](#) ()
- boolean [isAv_Uart](#) ()
- boolean [isAv_I2c](#) ()
- boolean [isAv_Spi](#) ()
- boolean [isAv_altFunc](#) ()

Static Public Attributes

- static final [Selected](#) [DF_SELECTED](#) = [Selected](#).NOT
- static final [Mode](#) [DF_MODE](#) = [Mode](#).MODE_INPUT
- static final [AltMode](#) [DF_ALT_MODE](#) = [AltMode](#).ALT_MODE_NONE
- static final [Speed](#) [DF_SPEED](#) = [Speed](#).SPEED_FAST
- static final [OutType](#) [DF_OUTTYPE](#) = [OutType](#).OTYPE_PUSH_PULL
- static final [OutLevel](#) [DF_OUT_LEVEL](#) = [OutLevel](#).LOW
- static final [Pull](#) [DF_PULL](#) = [Pull](#).PULL_NOT_AVAILABLE
- static final String [DF_CODE_NAME](#) = ""

4.26.1 Detailed Description

GPIO pin configuration

Author

Miguel Diaz

Version

0.1

4.26.2 Constructor & Destructor Documentation

4.26.2.1 PinConf()

```
configurator.PinConf.PinConf (
    Pin gpioPin )
```

Constructor

Parameters

<i>gpioPin</i>	Pin information
----------------	-----------------

4.26.3 Member Function Documentation

4.26.3.1 getAltMode()

```
AltMode configurator.PinConf.getAltMode ( )
```

Get pin's alternative mode

Returns

Alternative mode

4.26.3.2 getCodeName()

```
String configurator.PinConf.getCodeName ( )
```

Get the pin's user selected name

Returns

pin's name

4.26.3.3 `getMode()`

```
Mode configurator.PinConf.getMode ( )
```

Get the pin's mode configuration

Returns

Mode

4.26.3.4 `getOutLevel()`

```
OutLevel configurator.PinConf.getOutLevel ( )
```

Get the pin's output level

Returns

Pin's output level

4.26.3.5 `getOutType()`

```
OutType configurator.PinConf.getOutType ( )
```

Get the pin's output configuration

Returns

Output configuration

4.26.3.6 `getPinName()`

```
String configurator.PinConf.getPinName ( )
```

Get the pin's number

Returns

Pin's number

4.26.3.7 getPort()

```
String configurator.PinConf.getPort ( )
```

Get the pin's port

Returns

Port

4.26.3.8 getPortPin()

```
String configurator.PinConf.getPortPin ( )
```

Get the port pin number

Returns

Port pin number

4.26.3.9 getPull()

```
Pull configurator.PinConf.getPull ( )
```

Get the pin's pull resistor configuration

Returns

Pull Resistor configuration

4.26.3.10 getSelected()

```
Selected configurator.PinConf.getSelected ( )
```

Get the pin's selection

Returns

Selection

4.26.3.11 `getSpeed()`

```
Speed configurator.PinConf.getSpeed ( )
```

Get the pin's speed

Returns

Speed

4.26.3.12 `isAv_Adc()`

```
boolean configurator.PinConf.isAv_Adc ( )
```

Check availability of ADC

Returns

True if ADC is available

4.26.3.13 `isAv_altFunc()`

```
boolean configurator.PinConf.isAv_altFunc ( )
```

Check the availability of alternate function

Returns

True if alternate function is available

4.26.3.14 `isAv_I2c()`

```
boolean configurator.PinConf.isAv_I2c ( )
```

Check availability of I2C

Returns

True if I2C is available

4.26.3.15 isAv_Spi()

```
boolean configurator.PinConf.isAv_Spi ( )
```

Check availability of SPI

Returns

True if SPI is available

4.26.3.16 isAv_Uart()

```
boolean configurator.PinConf.isAv_Uart ( )
```

Check availability of UART

Returns

True id UART is available

4.26.3.17 isValid()

```
boolean configurator.PinConf.isValid ( )
```

Check if the GPIO pin is valid

Returns

True if valid

4.26.3.18 setAltMode()

```
void configurator.PinConf.setAltMode (
    AltMode altMode )
```

Set pin's alternative mode

Parameters

<i>altMode</i>	Alternative mode
----------------	------------------

4.26.3.19 setCodeName()

```
void configurator.PinConf.setCodeName (
    String name )
```

Set the pin's user selected name

Parameters

<i>name</i>	Pin's name
-------------	------------

4.26.3.20 setMode()

```
void configurator.PinConf.setMode (
    Mode mode )
```

Set the pin's mode configuration

Parameters

<i>mode</i>	Mode
-------------	------

4.26.3.21 setOutLevel()

```
void configurator.PinConf.setOutLevel (
    OutLevel level )
```

Set the pin's output level

Parameters

<i>level</i>	Pin's output level
--------------	--------------------

4.26.3.22 setOutType()

```
void configurator.PinConf.setOutType (
    OutType outType )
```

Set the pin's output configuration

Parameters

<i>outType</i>	Output configuration
----------------	----------------------

4.26.3.23 setPull()

```
void configurator.PinConf.setPull (
    Pull pull )
```

Set the pull resistor configuration

Parameters

<i>pull</i>	Resistor configuration
-------------	------------------------

4.26.3.24 setSelected()

```
void configurator.PinConf.setSelected (
    Selected selection )
```

Set the pin's selection

Parameters

<i>selection</i>	Selection
------------------	-----------

4.26.3.25 setSpeed()

```
void configurator.PinConf.setSpeed (
```

```
Speed speed )
```

Set the pin's speed

Parameters

<i>speed</i>	Speed
--------------	-------

4.26.4 Member Data Documentation

4.26.4.1 DF_ALT_MODE

```
final AltMode configurator.PinConf.DF_ALT_MODE = AltMode.ALT_MODE_NONE [static]
```

Default Pin alternative mode

4.26.4.2 DF_CODE_NAME

```
final String configurator.PinConf.DF_CODE_NAME = "" [static]
```

Default pin's code name

4.26.4.3 DF_MODE

```
final Mode configurator.PinConf.DF_MODE = Mode.MODE_INPUT [static]
```

Default Pin mode

4.26.4.4 DF_OUT_LEVEL

```
final OutLevel configurator.PinConf.DF_OUT_LEVEL = OutLevel.LOW [static]
```

Default pin's output level

4.26.4.5 DF_OUTTYPE

```
final OutType configurator.PinConf.DF_OUTTYPE = OutType.OTYPE_PUSH_PULL [static]
```

Default pin's output type

4.26.4.6 DF_PULL

```
final Pull configurator.PinConf.DF_PULL = Pull.PULL_NOT_AVAILABLE [static]
```

Default pin's pull resistor

4.26.4.7 DF_SELECTED

```
final Selected configurator.PinConf.DF_SELECTED = Selected.NOT [static]
```

Default Pin's selection

4.26.4.8 DF_SPEED

```
final Speed configurator.PinConf.DF_SPEED = Speed.SPEED_FAST [static]
```

Default pin's speed

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

- src/configurator/PinConf.java

4.27 projectConfiguration.ProjectSettings Class Reference

Public Member Functions

- [ProjectSettings](#) ()
- [ErrorCode processDocument](#) ()
- [ErrorCode openProjectFile](#) (File inFile)
- File [getConfFile](#) ()
- File [getUcFile](#) ()
- String [getProjectName](#) ()
- String [getFrameworkPath](#) ()
- void [setFrameworkPath](#) (String path)

4.27.1 Detailed Description

Project settings class

Author

Miguel Diaz

Version

0.2

4.27.2 Constructor & Destructor Documentation

4.27.2.1 ProjectSettings()

```
projectConfiguration.ProjectSettings.ProjectSettings ( )
```

Constructor

4.27.3 Member Function Documentation

4.27.3.1 getConfFile()

```
File projectConfiguration.ProjectSettings.getConfFile ( )
```

Get the project configuration file

Returns

Project configuration file

4.27.3.2 getFrameworkPath()

```
String projectConfiguration.ProjectSettings.getFrameworkPath ( )
```

Get the framework folder

Returns

framework folder

4.27.3.3 getProjectName()

```
String projectConfiguration.ProjectSettings.getProjectName ( )
```

Get the project's name

Returns

Project's name

4.27.3.4 getUcFile()

```
File projectConfiguration.ProjectSettings.getUcFile ( )
```

Get the project microcontroller file

Returns

Project microcontroller file

4.27.3.5 openProjectFile()

```
ErrorCode projectConfiguration.ProjectSettings.openProjectFile (
    File inFile )
```

Open the project settings file

Parameters

<i>inFile</i>	Project file
---------------	--------------

Returns

Error Status

4.27.3.6 processDocument()

```
ErrorCode projectConfiguration.ProjectSettings.processDocument ( )
```

Process the document obtained from the XML file

Returns

Error Status

4.27.3.7 setFrameworkPath()

```
void projectConfiguration.ProjectSettings.setFrameworkPath (
    String path )
```

Set the framework folder

Parameters

<i>path</i>	Framework folder
-------------	------------------

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

- src/projectConfiguration/ProjectSettings.java

4.28 gui.ProjectSettingsWindow Class Reference

Public Member Functions

- [ProjectSettingsWindow](#) ([ProjectSettings](#) settings)

Static Public Member Functions

- static void [main](#) (String[] args)

4.28.1 Constructor & Destructor Documentation**4.28.1.1 ProjectSettingsWindow()**

```
gui.ProjectSettingsWindow.ProjectSettingsWindow (
    ProjectSettings settings )
```

Create the application.

4.28.2 Member Function Documentation

4.28.2.1 main()

```
static void gui.ProjectSettingsWindow.main (
    String[] args ) [static]
```

Launch the application.

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

- src/gui/ProjectSettingsWindow.java

4.29 configurator.GPIO.Pull Enum Reference

Static Public Member Functions

- static [Pull getConfigFromString](#) (String conf)

Public Attributes

- [PULL_UP](#)
- [PULL_DOWN](#)
- [PULL_NOT_AVAILABLE](#)
- [PULL_MAX_VALUE](#)

Static Public Attributes

- static final String [STR_NAME](#) = "Pull"

4.29.1 Detailed Description

Pin's pull resistor

Author

Miguel Diaz

Version

0.1

4.29.2 Member Function Documentation

4.29.2.1 getConfigFromString()

```
static Pull configurator.GPIO.Pull.getConfigFromString (
    String conf ) [static]
```

Get the corresponding [Pull](#) configuration from its name as String

Parameters

<i>conf</i>	Configuration name
-------------	--------------------

Returns

[Pull](#) configuration

4.29.3 Member Data Documentation

4.29.3.1 PULL_DOWN

```
configurator.GPIO.Pull.PULL_DOWN
```

[Pull](#) Down

4.29.3.2 PULL_MAX_VALUE

```
configurator.GPIO.Pull.PULL_MAX_VALUE
```

Maximum value for [Pull](#) enum

4.29.3.3 PULL_NOT_AVAILABLE

```
configurator.GPIO.Pull.PULL_NOT_AVAILABLE
```

If the pin is configured as output, or there is no resistor available

4.29.3.4 PULL_UP

```
configurator.GPIO.Pull.PULL_UP
```

[Pull](#) Up

4.29.3.5 STR_NAME

```
final String configurator.GPIO.Pull.STR_NAME = "Pull" [static]
```

Name as String

The documentation for this enum was generated from the following file:

- `src/configurator/GPIO/Pull.java`

4.30 configurator.Selected Enum Reference

Public Member Functions

- boolean [getBoolean](#) ()

Static Public Member Functions

- static [Selected](#) [getConfFromString](#) (String conf)
- static [Selected](#) [getConfFromBoolean](#) (Boolean conf)

Public Attributes

- [NOT](#)
- [YES](#)

Static Public Attributes

- static final String [STR_NAME](#) = "selected"

4.30.1 Detailed Description

Pin's selection

Author

Miguel Díaz

Version

0.1

4.30.2 Member Function Documentation

4.30.2.1 [getBoolean](#)()

```
boolean configurator.Selected.getBoolean ( )
```

Get the corresponding boolean from its selection

Returns

[Selected](#) pin state

4.30.2.2 [getConfFromBoolean](#)()

```
static Selected configurator.Selected.getConfFromBoolean (
    Boolean conf ) [static]
```

Get the corresponding mode from a boolean

Parameters

<i>conf</i>	Configuration value
-------------	---------------------

Returns

[Selected](#)

4.30.2.3 getConfFromString()

```
static Selected configurator.Selected.getConfFromString (
    String conf ) [static]
```

Get the corresponding mode from its name as String

Parameters

<i>conf</i>	Configuration name
-------------	--------------------

Returns

[Selected](#)

4.30.3 Member Data Documentation**4.30.3.1 NOT**

```
configurator.Selected.NOT
```

Pin not selected

4.30.3.2 STR_NAME

```
final String configurator.Selected.STR_NAME = "selected" [static]
```

Name as String

4.30.3.3 YES

```
configurator.Selected.YES
```

Pin selected

The documentation for this enum was generated from the following file:

- src/configurator/Selected.java

4.31 configurator.GPIO.Speed Enum Reference

Static Public Member Functions

- static [Speed](#) [getConfigFromString](#) (String conf)

Public Attributes

- [SPEED_FAST](#)
- [SPEED_MEDIUM](#)
- [SPEED_HIGH](#)
- [SPEED_NOT_AVAILABLE](#)
- [SPEED_MAX_VALUE](#)

Static Public Attributes

- static final String [STR_NAME](#) = "Speed"

4.31.1 Detailed Description

Pin's speed

Author

Miguel Diaz

Version

0.1

4.31.2 Member Function Documentation

4.31.2.1 getConfigFromString()

```
static Speed configurator.GPIO.Speed.getConfigFromString (  
    String conf ) [static]
```

Get the corresponding [Speed](#) configuration from its name as String

Parameters

<i>conf</i>	Configuration name
-------------	--------------------

Returns

[Speed](#)

4.31.3 Member Data Documentation

4.31.3.1 SPEED_FAST

`configurator.GPIO.Speed.SPEED_FAST`

Fast

4.31.3.2 SPEED_HIGH

`configurator.GPIO.Speed.SPEED_HIGH`

High

4.31.3.3 SPEED_MAX_VALUE

`configurator.GPIO.Speed.SPEED_MAX_VALUE`

Maximum value for [Speed](#) enum

4.31.3.4 SPEED_MEDIUM

`configurator.GPIO.Speed.SPEED_MEDIUM`

Medium

4.31.3.5 SPEED_NOT_AVAILABLE

`configurator.GPIO.Speed.SPEED_NOT_AVAILABLE`

Not all MCUs will have this setting

4.31.3.6 STR_NAME

```
final String configurator.GPIO.Speed.STR_NAME = "Speed" [static]
```

Name as String

The documentation for this enum was generated from the following file:

- src/configurator/GPIO/Speed.java

4.32 microcontroller.Uart Class Reference

Public Member Functions

- [Uart](#) ()
- void [setName](#) (String name)
- String [getName](#) ()
- void [addClock](#) (String clock)
- int [getClockNum](#) ()
- String [getClock](#) (int index)
- void [addPrescaler](#) (String prescaler)
- int [getPrescalerNum](#) ()
- String [getPrescaler](#) (int index)
- void [addBaudRate](#) (String baudRate)
- int [getBaudRateNum](#) ()
- String [getBaudRate](#) (int index)
- void [addDataBits](#) (String dataBits)
- int [getDataBitsNum](#) ()
- String [getDataBits](#) (int index)
- void [addStopBits](#) (String stopBits)
- int [getStopBitsNum](#) ()
- String [getStopBits](#) (int index)
- void [addParity](#) (String parity)
- int [getParityNum](#) ()
- String [getParity](#) (int index)
- boolean [isValid](#) ()

4.32.1 Constructor & Destructor Documentation

4.32.1.1 Uart()

```
microcontroller.Uart.Uart ( )
```

UART instance constructor

4.32.2 Member Function Documentation

4.32.2.1 addBaudRate()

```
void microcontroller.Uart.addBaudRate (
    String baudRate )
```

Add UART's supported clock BaudRate

Parameters

<i>BaudRate</i>	Clock BaudRate
-----------------	----------------

4.32.2.2 addClock()

```
void microcontroller.Uart.addClock (
    String clock )
```

Add ADC supported clock source

Parameters

<i>clock</i>	Clock source
--------------	--------------

4.32.2.3 addDataBits()

```
void microcontroller.Uart.addDataBits (
    String dataBits )
```

Add UART's supported clock DataBits

Parameters

<i>DataBits</i>	Clock DataBits
-----------------	----------------

4.32.2.4 addParity()

```
void microcontroller.Uart.addParity (
    String parity )
```

Add UART's supported clock Parity

Parameters

<i>Parity</i>	Clock Parity
---------------	--------------

4.32.2.5 addPrescaler()

```
void microcontroller.Uart.addPrescaler (
    String prescaler )
```

Add UART's supported clock prescaler

Parameters

<i>prescaler</i>	Clock prescaler
------------------	-----------------

4.32.2.6 addStopBits()

```
void microcontroller.Uart.addStopBits (
    String stopBits )
```

Add UART's supported clock StopBits

Parameters

<i>StopBits</i>	Clock StopBits
-----------------	----------------

4.32.2.7 getBaudRate()

```
String microcontroller.Uart.getBaudRate (
    int index )
```

Get UART's clock BaudRate

Parameters

<i>index</i>	Clock BaudRate index
--------------	----------------------

Returns

Clock BaudRate

4.32.2.8 getBaudRateNum()

```
int microcontroller.Uart.getBaudRateNum ( )
```

Get UART's number of supported BaudRates

Returns

Number of supported BaudRates

4.32.2.9 getClock()

```
String microcontroller.Uart.getClock (
    int index )
```

Get UART's clock source

Parameters

<i>index</i>	Clock source index
--------------	--------------------

Returns

Clock source

4.32.2.10 getClockNum()

```
int microcontroller.Uart.getClockNum ( )
```

Get UARTs number of clock sources

Returns

Number of clock sources

4.32.2.11 getDataBits()

```
String microcontroller.Uart.getDataBits (
    int index )
```

Get UART's clock DataBits

Parameters

<i>index</i>	Clock DataBits index
--------------	----------------------

Returns

Clock DataBits

4.32.2.12 getDataBitsNum()

```
int microcontroller.Uart.getDataBitsNum ( )
```

Get UART's number of supported DataBits

Returns

Number of supported DataBits

4.32.2.13 getName()

```
String microcontroller.Uart.getName ( )
```

Get UARTs instance name

Returns

Instance name

4.32.2.14 getParity()

```
String microcontroller.Uart.getParity (
    int index )
```

Get UART's clock Parity

Parameters

<i>index</i>	Clock Parity index
--------------	--------------------

Returns

Clock Parity

4.32.2.15 getParityNum()

```
int microcontroller.Uart.getParityNum ( )
```

Get UART's number of supported Paritys

Returns

Number of supported Paritys

4.32.2.16 getPrescaler()

```
String microcontroller.Uart.getPrescaler (
    int index )
```

Get UART's clock prescaler

Parameters

<i>index</i>	Clock prescaler index
--------------	-----------------------

Returns

Clock prescaler

4.32.2.17 getPrescalerNum()

```
int microcontroller.Uart.getPrescalerNum ( )
```

Get UART's number of supported prescalers

Returns

Number of supported prescalers

4.32.2.18 getStopBits()

```
String microcontroller.Uart.getStopBits (
    int index )
```

Get UART's clock StopBits

Parameters

<i>index</i>	Clock StopBits index
--------------	----------------------

Returns

Clock StopBits

4.32.2.19 getStopBitsNum()

```
int microcontroller.Uart.getStopBitsNum ( )
```

Get UART's number of supported StopBits

Returns

Number of supported StopBits

4.32.2.20 isValid()

```
boolean microcontroller.Uart.isValid ( )
```

Check validity of ADC

Returns

True if valid

4.32.2.21 setName()

```
void microcontroller.Uart.setName (
    String name )
```

Set UARTs instance name

Parameters

<i>name</i>	Instance name
-------------	---------------

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

- src/microcontroller/Uart.java

4.33 configurator.UartConf Class Reference

Public Member Functions

- [UartConf](#) ([Uart](#) uart)
- [Selected](#) [getSelected](#) ()
- void [setSelected](#) ([Selected](#) selection)
- String [getCodeName](#) ()
- void [setCodeName](#) (String codeName)
- String [getClock](#) ()
- void [setClock](#) (String clock)
- String [getPrescaler](#) ()
- void [setPrescaler](#) (String prescaler)
- String [getBaudRate](#) ()
- void [setBaudRate](#) (String baudRate)
- String [getDataBits](#) ()
- void [setDataBits](#) (String dataBits)
- String [getStopBits](#) ()
- void [setStopBits](#) (String stopBits)
- String [getParity](#) ()
- void [setParity](#) (String parity)

Public Attributes

- [Uart](#) [UartFeatures](#)

Static Public Attributes

- static final [Selected](#) [DF_SELECTED](#) = [Selected](#).NOT
- static final String [STR_NAME](#) = "name"
- static final String [STR_CODE_NAME](#) = "codeName"
- static final String [STR_CLOCK](#) = "clock"
- static final String [STR_PRESCALER](#) = "prescaler"
- static final String [STR_BAUD_RATE](#) = "baudRate"
- static final String [STR_DATA_BITS](#) = "dataBits"
- static final String [STR_STOP_BITS](#) = "stopBits"
- static final String [STR_PARITY](#) = "parity"

4.33.1 Constructor & Destructor Documentation

4.33.1.1 UartConf()

```
configurator.UartConf.UartConf (
    Uart uart )
```

UART configuration constructor

Parameters

<i>uart</i>	UART instance
-------------	---------------

4.33.2 Member Function Documentation

4.33.2.1 getBaudRate()

```
String configurator.UartConf.getBaudRate ( )
```

Get UART's configured BaudRate

Returns

UART's configured BaudRate

4.33.2.2 getClock()

```
String configurator.UartConf.getClock ( )
```

Get UART's configured Clock

Returns

UART's configured Clock

4.33.2.3 getCodeName()

```
String configurator.UartConf.getCodeName ( )
```

Get UART's code name

Returns

UART's code name

4.33.2.4 getDataBits()

```
String configurator.UartConf.getDataBits ( )
```

Get UART's configured DataBits

Returns

UART's configured DataBits

4.33.2.5 getParity()

```
String configurator.UartConf.getParity ( )
```

Get UART's configured Parity

Returns

UART's configured Parity

4.33.2.6 getPrescaler()

```
String configurator.UartConf.getPrescaler ( )
```

Get UART's configured Prescaler

Returns

UART's configured Prescaler

4.33.2.7 getSelected()

```
Selected configurator.UartConf.getSelected ( )
```

Get the UART's selection

Returns

Selection

4.33.2.8 getStopBits()

```
String configurator.UartConf.getStopBits ( )
```

Get UART's configured StopBits

Returns

UART's configured StopBits

4.33.2.9 setBaudRate()

```
void configurator.UartConf.setBaudRate (
    String baudRate )
```

Get UART's configured BaudRate

Parameters

<i>baudRate</i>	UART's configured BaudRate
-----------------	----------------------------

4.33.2.10 setClock()

```
void configurator.UartConf.setClock (
    String clock )
```

Get UART's configured Clock

Parameters

<i>clock</i>	UART's configured Clock
--------------	-------------------------

4.33.2.11 setCodeName()

```
void configurator.UartConf.setCodeName (  
    String codeName )
```

Set Get UART's code name

Parameters

<i>codeName</i>	UART's code name
-----------------	------------------

4.33.2.12 setDataBits()

```
void configurator.UartConf.setDataBits (  
    String dataBits )
```

Get UART's configured DataBits

Parameters

<i>dataBits</i>	UART's configured DataBits
-----------------	----------------------------

4.33.2.13 setParity()

```
void configurator.UartConf.setParity (  
    String parity )
```

Get UART's configured Parity

Parameters

<i>parity</i>	UART's configured Parity
---------------	--------------------------

4.33.2.14 setPrescaler()

```
void configurator.UartConf.setPrescaler (
    String prescaler )
```

Get UART's configured Prescaler

Parameters

<i>prescaler</i>	UART's configured Prescaler
------------------	-----------------------------

4.33.2.15 setSelected()

```
void configurator.UartConf.setSelected (
    Selected selection )
```

Set the UART's selection

Parameters

<i>selection</i>	Selection
------------------	-----------

4.33.2.16 setStopBits()

```
void configurator.UartConf.setStopBits (
    String stopBits )
```

Get UART's configured StopBits

Parameters

<i>stopBits</i>	UART's configured StopBits
-----------------	----------------------------

4.33.3 Member Data Documentation

4.33.3.1 DF_SELECTED

```
final Selected configurator.UartConf.DF_SELECTED = Selected.NOT [static]
```

Default Pin's selection

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

- src/configurator/UartConf.java

4.34 gui.UartConfWindow Class Reference

Public Member Functions

- [UartConfWindow](#) ([Microcontroller](#) uCtrl)

Static Public Member Functions

- static void [main](#) (String[] args)

4.34.1 Constructor & Destructor Documentation

4.34.1.1 UartConfWindow()

```
gui.UartConfWindow.UartConfWindow (  
    Microcontroller uCtrl )
```

Create the application.

Parameters

<i>uCtrl</i>	Microcontroller
--------------	-----------------

4.34.2 Member Function Documentation

4.34.2.1 main()

```
static void gui.UartConfWindow.main (
    String[] args ) [static]
```

Launch the application.

Parameters

<i>args</i>	General arguments
-------------	-------------------

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

- src/gui/UartConfWindow.java

4.35 framework.UartGenerator Class Reference

Static Public Member Functions

- static String **getCfgArray** ([Microcontroller](#) uC)
- static String **getElDefs** ([Microcontroller](#) uC)
- static String **getElements** ([Microcontroller](#) uC)
- static String **getIncludes** ([Microcontroller](#) uC)
- static String **getCfgDefinitions** ([Microcontroller](#) uC)

Static Public Attributes

- static final String **STR_TKN_CFG_ARRAY** = "FWK_UART_CFG_ARRAY"
- static final String **STR_TKN_ELEMENTS** = "FWK_UART_ELEMENTS"
- static final String **STR_TKN_INC** = "FWK_UART_INCLUDES"
- static final String **STR_TKN_CFG_DEFS** = "FWK_UART_CFG_DEFINITIONS"
- static final String **STR_TKN_EL_DEFS** = "FWK_UART_ELEMENTS_DEFINITIONS"

4.35.1 Member Function Documentation

4.35.1.1 getElDefs()

```
static String framework.UartGenerator.getElDefs (
    Microcontroller uC ) [static]
```

Parameters

<i>uC</i>	Microcontroller used
-----------	----------------------

Returns

Elements definitions as String

4.35.1.2 getElements()

```
static String framework.UartGenerator.getElements (
    Microcontroller uC ) [static]
```

Parameters

<i>uC</i>	Microcontroller used
-----------	----------------------

Returns

Elements list as String

4.35.1.3 getIncludes()

```
static String framework.UartGenerator.getIncludes (
    Microcontroller uC ) [static]
```

Parameters

<i>uC</i>	Microcontroller used
-----------	----------------------

Returns

Headers needed for GPIO module

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

- src/framework/UartGenerator.java

4.36 xmlParser.XmlOpener Class Reference

Public Member Functions

- [XmlOpener](#) ()
- [ErrorCode OpenFile](#) (File inFile)
- Document [getParsedDoc](#) ()

Static Public Member Functions

- static String [getElementInfoFromDoc](#) (Document doc, String elementName)
- static String [getElementInfo](#) (Element element, String elementName)

4.36.1 Detailed Description

Open and process XML files

Author

H112943

Version

0.1

4.36.2 Constructor & Destructor Documentation

4.36.2.1 XmlOpener()

```
xmlParser.XmlOpener.XmlOpener ( )
```

Constructor

4.36.3 Member Function Documentation

4.36.3.1 getElementInfo()

```
static String xmlParser.XmlOpener.getElementInfo (
    Element element,
    String elementName ) [static]
```

Get an XML sub element information

Parameters

<i>element</i>	XML main element
<i>elementName</i>	Sub element's name

Returns

Sub element's information

4.36.3.2 getElementInfoFromDoc()

```
static String xmlParser.XmlOpener.getElementInfoFromDoc (
    Document doc,
    String elementName ) [static]
```

Get an XML element information

Parameters

<i>doc</i>	Document from XML file
<i>elementName</i>	Element's name

Returns

Element's information

4.36.3.3 getParsedDoc()

```
Document xmlParser.XmlOpener.getParsedDoc ( )
```

Get the parsed document AFTER opening the file

Returns

Parsed document

4.36.3.4 OpenFile()

```
ErrorCode xmlParser.XmlOpener.OpenFile (
    File inFile )
```

Open the XML file

Parameters

<i>inFile</i>	XML file
---------------	----------

Returns

Error code

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

- src/xmlParser/XmlOpener.java

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