Code_generator

Generated by Doxygen 1.8.15

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nlCreator	8
n Parser	9

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Chapter 2

Class Index

2.1 Class List

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

gui.AboutWindow
framework.CodeGenerator
configurator.GPIO.CodeName
framework.Common
configurator.ConfigurationFile
xmlCreator.ConfXmlWriter
common.ErrorCode
common.Features
gui.GpioConfWindow
gui.MainGui
gui.MainWindow
gui.Messages
microcontroller.Microcontroller
configurator.GPIO.Mode
configurator.GPIO.OutLevel
configurator.GPIO.OutType
microcontroller.Pin
configurator.PinConf
projectConfiguration.ProjectSettings
configurator.GPIO.Pull
configurator.GPIO.Speed
xmlParser.TestMain
xmlParser XmlOnener 7 ^p

4 Class Index

Chapter 3

Namespace Documentation

3.1 Package common

Classes

- enum ErrorCode
- class Features

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 ConfigurationFile
- · class PinConf

3.2.1 Detailed Description

Configuration classes

Author

Miguel Diaz

Version

0.1

3.3 Package framework

Classes

- · class CodeGenerator
- class Common
- · class GpioGenerator

3.3.1 Detailed Description

Framework information

Author

H112943

Version

0.1

3.4 Package gui

Classes

- class AboutWindow
- class GpioConfWindow
- class MainGui
- · class MainWindow
- class Messages

3.4.1 Detailed Description

Author

Miguel Diaz

Version

0.1

3.5 Package microcontroller

Classes

- class Microcontroller
- class Pin

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 TestMain
- 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()

About window main

Parameters

args	Init parameters
------	-----------------

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

• src/gui/AboutWindow.java

4.2 framework.CodeGenerator Class Reference

Public Member Functions

- CodeGenerator (Microcontroller uC, ProjectSettings projectSettings)
- ErrorCode Generate ()

4.2.1 Detailed Description

Author

ovd

4.2.2 Constructor & Destructor Documentation

4.2.2.1 CodeGenerator()

Constructor

Parameters

uC	Project's microcontroller
projectSettings	Project's settings

4.2.3 Member Function Documentation

4.2.3.1 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

4.3 configurator.GPIO.CodeName Enum Reference

Public Attributes

• CODE_NAME

Static Public Attributes

• static final String STR_NAME = "codeName"

4.3.1 Detailed Description

Author

Miguel Diaz

Version

0.1

4.3.2 Member Data Documentation

4.3.2.1 CODE_NAME

configurator.GPIO.CodeName.CODE_NAME

Code name for pin

4.3.2.2 STR_NAME

```
static 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

4.4 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 Public Attributes

- static final String STR_MODULE_GPIO = "gpio"
- static final String NL = "\r\n"
- static final String STR_DEFINITION = "#define "
- static final String STR_INCLUDE = "#include "
- static final String STR_HEADER_EXT = ".h"

4.4.1 Detailed Description

Framework common fields and methods

Author

Miguel Diaz

Version

0.1

4.4.2 Member Function Documentation

4.4.2.1 getCfgFileCPath()

Get GPIO configuration file path

Parameters

fwkPath	Framework folder path
cfgModule	Configuration module name

Returns

GPIO configuration file path

4.4.2.2 getCfgFileHPath()

Get GPIO configuration header file path

Parameters

fwkPath	Framework folder path
cfgModule	Configuration module name

Returns

GPIO configuration header file path

4.4.2.3 getCfgPath()

Get configuration module files folder path

Parameters

fwkPath	Framework folder path
cfgModule	Configuration module name

Returns

Configuration files folder path

4.4.2.4 getCommonIncludes()

Parameters

uC Microcontroller used

Returns

Common headers needed for framework

4.4.2.5 getFrameworkCommonFilePath()

Get the framework common header path

Parameters

fwkPath Framework folder	r path
--------------------------	--------

Returns

Framework common header path

4.4.2.6 getFrameworkIncludesFilePath()

```
static String framework.Common.getFrameworkIncludesFilePath ( String \ \textit{fwkPath} \ ) \quad [static]
```

Get the framework includes header path

Parameters

ĺ	ful/Dath	Framework folder path
	IWKFalli	Framework lolder path

Returns

Framework includes header path

4.4.2.7 getInstallationFwkPath()

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

Get installation framework path

Returns

installation framework path

4.4.2.8 getProjectFwkPath()

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

Get project's framework path

Returns

project's framework path

4.4.2.9 setInstallationFwkPath()

Set installation framework path

Parameters

4.4.2.10 setProjectFwkPath()

Set project's framework path

Parameters

```
projectFwkPath project's framework path
```

4.4.3 Member Data Documentation

4.4.3.1 NL

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

Common implementation of New Line

4.4.3.2 STR_DEFINITION

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

Macro definition String

4.4.3.3 STR_HEADER_EXT

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

Header file extension

4.4.3.4 STR_INCLUDE

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

Include header file string

4.4.3.5 STR_MODULE_GPIO

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

GPIO module name

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

• src/framework/Common.java

4.5 configurator.ConfigurationFile Class Reference

Static Public Attributes

• static final String STR_PROJ_CONF_FILE = "cgs"

4.5.1 Detailed Description

Configuration files properties

Author

Miguel Diaz

Version

0.1

4.5.2 Member Data Documentation

```
4.5.2.1 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

4.6 xmlCreator.ConfXmlWriter Class Reference

Public Member Functions

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

4.6.1 Detailed Description

Write a XML file

Author

Miguel Diaz

Version

0.1

4.6.2 Constructor & Destructor Documentation

4.6.2.1 ConfXmlWriter()

```
 \begin{tabular}{ll} $\tt xmlCreator.ConfXmlWriter.ConfXmlWriter ( \\ &\tt Microcontroller \it uC ) \end{tabular}
```

Constructor

Parameters

uC | Microcontroller configuration

4.6.3 Member Function Documentation

4.6.3.1 addPin()

Add a pin configuration to the file

Parameters

pin	Pin configuration
pinNum	Number of GPIO pin

4.6.3.2 writeXml()

Write the XMI file

Parameters

fileName Name of XML configuration file	!
---	---

Returns

Error status

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

• src/xmlCreator/ConfXmlWriter.java

4.7 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"

4.7.1 Detailed Description

Error codes enum

Author

Miguel Diaz

Version

0.1

4.7.2 Member Data Documentation

4.7.2.1 EX_ERROR

common.ErrorCode.EX_ERROR

Error during execution

4.7.2.2 FILE_CONF_ERROR

common.ErrorCode.FILE_CONF_ERROR

File configuration error

4.7.2.3 FILE_READ_ERROR

common.ErrorCode.FILE_READ_ERROR

File reading error

4.7.2.4 FILE_WRITE_ERROR

common.ErrorCode.FILE_WRITE_ERROR

File writing error

4.7.2.5 NO_ERROR

common.ErrorCode.NO_ERROR

No error message

4.7.2.6 STR_INVALID

static 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

4.8 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 = "Bespin"

4.8.1 Detailed Description

Class that includes all project features

Author

Miguel Diaz

Version

0.1

4.8.2 Member Function Documentation

4.8.2.1 debugPrint()

Print Debug message to console

Parameters

debugMessage	Message to display
acaugimocago	oodaga ta alapiaj

4.8.2.2 verbosePrint()

```
static void common.
Features.verbosePrint ( String \ \textit{verboseMessage} \ ) \quad [static]
```

Print Verbose message to console

Parameters

verboseMessage	Message to display

4.8.3 Member Data Documentation

4.8.3.1 DEBUG

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

Enables debug functions

4.8.3.2 DEBUG_STR

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

Debug messages indicator on system console

4.8.3.3 SW_VERSION

final String common.Features.SW_VERSION = VERSION_MAJOR + "." + VERSION_MINOR + "." + VERSION_PA \leftarrow TCH [static]

Complete Software version

4.8.3.4 VERBOSE

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

Enables console messages

4.8.3.5 VERBOSE STR

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

Verbose messages indicator on system console

4.8.3.6 VERSION_NAME

final String common.Features.VERSION_NAME = "Bespin" [static]

Code name of the software version

4.8.3.7 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

4.9 gui.GpioConfWindow Class Reference

Public Member Functions

• GpioConfWindow (Microcontroller uCtrl)

Static Public Member Functions

• static void main (String[] args)

4.9.1 Detailed Description

Window for configuring GPIO pins

Author

Miguel Diaz

Version

0.1

4.9.2 Constructor & Destructor Documentation

4.9.2.1 GpioConfWindow()

```
\begin{tabular}{ll} $\tt gui.GpioConfWindow.GpioConfWindow ($$ & Microcontroller $\it uCtrl$) \end{tabular}
```

Create the GPIO configuration window and show it

Parameters

uCtrl | Microcontroller object containing all pin's information

4.9.3 Member Function Documentation

4.9.3.1 main()

Gpio configuration window main

Parameters

args Init parameters

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

• src/gui/GpioConfWindow.java

4.10 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 setNewUC (Microcontroller uC)
- static void saveUc ()
- static void generateCode ()

Static Public Attributes

- static File ProjectFile
- static String ProjectPath

4.10.1 Detailed Description

Main GUI state machine

Author

Miguel Diaz

Version

0.1

4.10.2 Member Function Documentation

Load the project settings file

Parameters

```
inFile Settings file
```

Returns

Error status

```
4.10.2.3 main()
```

Parameters

```
args TBD
```

```
4.10.2.4 saveUc()
```

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

Save the microcontroller's configuration to disk

4.10.2.5 setNewUC()

Set the project's microcontroller configuration

Parameters

```
uC Microcontroller configuration
```

4.10.2.6 showAboutWindow()

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

Show about information window

4.10.2.7 showErrorDialog()

Show an error dialog

Parameters

```
message Message to display
```

4.10.2.8 showGpioConfWindow()

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

Show the GPIOs configuration window

4.10.3 Member Data Documentation

4.10.3.1 ProjectFile

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

Project configuration file

4.10.3.2 ProjectPath

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

Project's location

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

• src/gui/MainGui.java

4.11 gui.MainWindow Class Reference

Public Member Functions

- MainWindow ()
- void setVisible (boolean status)
- File OpenFileChooser (String initialPath, String title, FileNameExtensionFilter fileFilter)
- ErrorCode setProjectInformation (String projectName, String ucManufacturer, String ucName)

Static Public Member Functions

• static void main (String[] args)

Public Attributes

• JFrame FrmCodeGenerator

4.11.1 Detailed Description

Main application window

Author

Miguel Diaz

Version

0.1

4.11.2 Constructor & Destructor Documentation

4.11.2.1 MainWindow()

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

Create the application.

4.11.3 Member Function Documentation

4.11.3.1 main()

Open main window

Parameters

```
args To be determined
```

4.11.3.2 OpenFileChooser()

Open file chooser dialog and get the selected file

Parameters

initialPath	Path to search the file in
title	Dialog title
fileFilter	Extension filter

Returns

Selected file

4.11.3.3 setProjectInformation()

Set Project's name in its label

Parameters

projectName	Project's name
ucManufacturer	Microcontroller's manufacturer
ucName	Microcontroller's model

Returns

Error status

4.11.3.4 setVisible()

Set visibility of About window

Parameters

status	true if visible

4.11.4 Member Data Documentation

4.11.4.1 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

4.12 gui.Messages Class Reference

Static Public Member Functions

• static String getString (String key)

4.12.1 Detailed Description

Messages window

Author

ovd

4.12.2 Member Function Documentation

4.12.2.1 getString()

Get String

Parameters



Returns

String

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

• src/gui/Messages.java

4.13 microcontroller.Microcontroller Class Reference

Public Member Functions

- Microcontroller (Document ucDoc)
- ErrorCode processDocument ()
- ErrorCode loadPinsConf (Document confDoc)
- Pin getPin (int pinNum)
- String getUc_model ()
- String getUc_manufacturer ()
- int getUc_pinNum ()
- int getUc_gpioNum ()
- int getUc_portNum ()
- PinConf getConfiguredPin (String gpioName)
- boolean isValid ()

Public Attributes

- String [] Ports
- String [] Includes_Common
- String [] Includes_Gpio
- PinConf [] GpioCfgPin

Static Public Attributes

• static final int MAX_NUMBER_OF_PINS_PER_PORT = 16

4.13.1 Detailed Description

Microcontroller related methods

Author

Miguel Diaz

Version

0.1

4.13.2 Constructor & Destructor Documentation

4.13.2.1 Microcontroller()

```
microcontroller.Microcontroller.Microcontroller ( {\tt Document}\ uc{\tt Doc}\ )
```

Constructor

Parameters

ucDoc	Document obtained from XML file
-------	---------------------------------

4.13.3 Member Function Documentation

4.13.3.1 getConfiguredPin()

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

Get the configuration of a pin

Parameters

Returns

Pin configuration

4.13.3.2 getPin()

```
Pin microcontroller.Microcontroller.getPin ( int \ \textit{pinNum} \ )
```

Get a pin's characteristics

Parameters

pinNum Number of pin

Returns

Pin's characteristics

```
4.13.3.3 getUc_gpioNum()
int microcontroller.Microcontroller.getUc_gpioNum ( )
Get the number of GPIOs in the microcontroller
Returns
     Number of GPIOs
4.13.3.4 getUc_manufacturer()
String microcontroller.Microcontroller.getUc\_manufacturer ( )
Get the microcontroller's manufacturer
Returns
     Microcontroller's manufacturer
4.13.3.5 getUc_model()
String microcontroller.Microcontroller.getUc_model ( )
Get the microcontroller's model
Returns
     Microcontroller's model
4.13.3.6 getUc_pinNum()
int microcontroller.Microcontroller.getUc_pinNum ( )
Get the microcontroller's pins number
Returns
     Number of pins
```

```
4.13.3.7 getUc_portNum()
int microcontroller.Microcontroller.getUc_portNum ( )
Get the number of ports in the microcontroller
Returns
     Number of ports
4.13.3.8 isValid()
boolean microcontroller.Microcontroller.isValid ( )
Check if the microcontroller configuration is valid
Returns
     true if valid
4.13.3.9 loadPinsConf()
{\tt ErrorCode\ microcontroller.Microcontroller.loadPinsConf\ (}
              Document confDoc )
Load pins' configuration
Parameters
 confDoc
            Document with pins
Returns
     Error Code
4.13.3.10 processDocument()
ErrorCode microcontroller.Microcontroller.processDocument ( )
```

Process the document obtained from XML file

Returns

Error status

4.13.4 Member Data Documentation

```
4.13.4.1 GpioCfgPin
```

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

Configured pins list

```
4.13.4.2 Includes_Common
```

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

List of public includes

4.13.4.3 Includes_Gpio

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

List of Includes for GPIO module

4.13.4.4 MAX_NUMBER_OF_PINS_PER_PORT

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

Maximum number of pins allowed in a single port

4.13.4.5 Ports

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

Ports name list

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

· src/microcontroller/Microcontroller.java

4.14 configurator.GPIO.Mode Enum Reference

Static Public Member Functions

• static Mode getConfFromString (String conf)

Public Attributes

- MODE_INPUT
- MODE_OUTPUT
- MODE_ALTERNATE_FUNCTION
- MODE_ANALOG
- MODE_MAX_VALUE

Static Public Attributes

• static final String STR_NAME = "Mode"

4.14.1 Detailed Description

GPIO modes

Author

Miguel Diaz

Version

0.1

4.14.2 Member Function Documentation

4.14.2.1 getConfFromString()

Get the corresponding mode from its name as String

Parameters

conf	Configuration name
------	--------------------

Returns

Mode

4.14.3 Member Data Documentation

```
4.14.3.1 MODE_ALTERNATE_FUNCTION
```

configurator.GPIO.Mode.MODE_ALTERNATE_FUNCTION

Alternate function

4.14.3.2 MODE_ANALOG

configurator.GPIO.Mode.MODE_ANALOG

Analog

4.14.3.3 MODE_INPUT

 ${\tt configurator.GPIO.Mode.MODE_INPUT}$

Input

4.14.3.4 MODE_MAX_VALUE

configurator.GPIO.Mode.MODE_MAX_VALUE

Maximum value for Mode enum

4.14.3.5 MODE_OUTPUT

configurator.GPIO.Mode.MODE_OUTPUT

Output

4.14.3.6 STR_NAME

```
static 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

4.15 configurator.GPIO.OutLevel Enum Reference

Static Public Member Functions

static OutLevel getConfFromString (String conf)

Public Attributes

- LOW
- HIGH
- MAX VALUE

Static Public Attributes

• static final String STR NAME = "OutLevel"

4.15.1 Detailed Description

Pin's output/input level

Author

Miguel Diaz

Version

0.1

4.15.2 Member Function Documentation

4.15.2.1 getConfFromString()

Get the corresponding mode from its name as String

Parameters

conf Configuration name	
-------------------------	--

Returns

level

4.15.3 Member Data Documentation

4.15.3.1 HIGH

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

High, logical 1, Vcc

4.15.3.2 LOW

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

Low, logical 0, Ground

4.15.3.3 MAX_VALUE

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

Maximum value for OutLevel enum

4.15.3.4 STR_NAME

```
static 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

4.16 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"

4.16.1 Detailed Description

Pin's output type

Author

Miguel Diaz

Version

0.1

4.16.2 Member Function Documentation

4.16.2.1 getConfFromString()

Get the corresponding output type from its name as String

Parameters

conf Configuration name

Returns

Output type

4.16.3 Member Data Documentation

```
4.16.3.1 OTYPE_MAX_VALUE
```

configurator.GPIO.OutType.OTYPE_MAX_VALUE

Maximum value for OutType enum

4.16.3.2 OTYPE_NOT_AVAILABLE

configurator.GPIO.OutType.OTYPE_NOT_AVAILABLE

If the pin is configured as input

4.16.3.3 OTYPE_OPEN_DRAIN

configurator.GPIO.OutType.OTYPE_OPEN_DRAIN

Open Drain

4.16.3.4 OTYPE_PUSH_PULL

configurator.GPIO.OutType.OTYPE_PUSH_PULL

Push Pull, totem

4.16.3.5 STR_NAME

static 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

4.17 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 feature)
- String getAdc ()
- void setUart (String feature)
- String getUart ()
- void setl2c (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 ()
- 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

4.17.1 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

4.17.2 Constructor & Destructor Documentation

```
4.17.2.1 Pin()
microcontroller.Pin.Pin ( )
Initialize all pin's characteristics and features to their default values
4.17.3 Member Function Documentation
4.17.3.1 getAdc()
String microcontroller.Pin.getAdc ( )
Get the pin's ADC name
Returns
     Pin's ADC
4.17.3.2 getClock()
String microcontroller.Pin.getClock ( )
Get the pin's clock name
```

Pin's clock

Returns

```
4.17.3.3 getFeat_adc()
boolean microcontroller.Pin.getFeat_adc ( )
See if the pin has an ADC
Returns
     Feature availability
4.17.3.4 getFeat_clock()
boolean microcontroller.Pin.getFeat_clock ( )
See if the pin supports a clock
Returns
     Feature availability
4.17.3.5 getFeat_i2c()
boolean microcontroller.Pin.getFeat_i2c ( )
See if the pin has I2C
Returns
     Feature availability
4.17.3.6 getFeat_int()
boolean microcontroller.Pin.getFeat_int ( )
See if the pin has an interruption
Returns
     Feature availability
```

```
4.17.3.7 getFeat_reset()
boolean microcontroller.Pin.getFeat_reset ( )
See if the pin has a reset feature
Returns
     Feature availability
4.17.3.8 getFeat_spi()
boolean microcontroller.Pin.getFeat_spi ( )
See if the pin has SPI
Returns
     Feature availability
4.17.3.9 getFeat_timer()
boolean microcontroller.Pin.getFeat_timer ( )
See if the pin supports a timer
Returns
     Feature availability
4.17.3.10 getFeat_uart()
boolean microcontroller.Pin.getFeat_uart ( )
See if the pin has a UART
Returns
```

Feature availability

```
4.17.3.11 getFunc_gnd()
boolean microcontroller.Pin.getFunc_gnd ( )
See if the pin is GND
Returns
     Function availability
4.17.3.12 getFunc_gpio()
boolean microcontroller.Pin.getFunc_gpio ( )
See if the pin is GPIO
Returns
     Function availability
4.17.3.13 getFunc_misc()
boolean microcontroller.Pin.getFunc_misc ( )
See if the pin is MISC
Returns
     Function availability
4.17.3.14 getFunc_reset()
boolean microcontroller.Pin.getFunc_reset ( )
See if the pin is RESET
Returns
```

Function availability

```
4.17.3.15 getFunc_vcc()
boolean microcontroller.Pin.getFunc_vcc ( )
See if the pin is Vcc
Returns
     Function availability
4.17.3.16 getl2c()
String microcontroller.Pin.getI2c ( )
Get the pin's I2C name
Returns
     Pin's I2C
4.17.3.17 getInt()
String microcontroller.Pin.getInt ( )
Get the pin's interruption name
Returns
     Pin's interruption
4.17.3.18 getName()
String microcontroller.Pin.getName ( )
Get the pin's name
Returns
```

Pin's name

```
4.17.3.19 getNumber()
int microcontroller.Pin.getNumber ( )
Get the pin's number
Returns
     Pin's number
4.17.3.20 getPort()
String microcontroller.Pin.getPort ( )
Get the pin's port
Returns
     Pin's port
4.17.3.21 getReset()
String microcontroller.Pin.getReset ( )
Get the pin's reset name
Returns
     Pin's reset
4.17.3.22 getSpi()
String microcontroller.Pin.getSpi ( )
Get the pin's SPI name
Returns
```

Pin's SPI

```
4.17.3.23 getTimer()
String microcontroller.Pin.getTimer ( )
Get the pin's timer name
Returns
     Pin's timer
4.17.3.24 getUart()
String microcontroller.Pin.getUart ( )
Get the pin's UART name
Returns
     Pin's UART
4.17.3.25 isValid()
boolean microcontroller.Pin.isValid ( )
Check if the pin is correctly initialized
Returns
     True if the pin is correctly initialized
4.17.3.26 setAdc()
void microcontroller.Pin.setAdc (
              String feature )
```

Generated by Doxygen

Set the pin's ADC

Parameters

feature	Pin's ADC
---------	-----------

4.17.3.27 setClock()

```
void microcontroller.Pin.setClock ( String\ \textit{feature}\ )
```

Set the pin's clock

Parameters

feature	Pin's clock
---------	-------------

4.17.3.28 setFeat_adc()

Set the pin's ADC feature

Parameters

featState	Feature availability
-----------	----------------------

4.17.3.29 setFeat_clock()

Set the pin's Clock feature

Parameters

featState	Feature availability

4.17.3.30 setFeat_i2c()

Set the pin's I2C feature

Parameters

4.17.3.31 setFeat_int()

Set the pin's interruption feature

Parameters

faatCtata	Feature availability
lealState	Feature availability
Toutotato	i dataro avanability

4.17.3.32 setFeat_reset()

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

Set the pin's reset feature

Parameters

featState	Feature availability

4.17.3.33 setFeat_spi()

```
void microcontroller.Pin.setFeat_spi (
```

```
boolean featState )
```

Set the pin's SPI feature

Parameters

```
featState Feature availability
```

4.17.3.34 setFeat_timer()

Set the pin's timer feature

Parameters

featState	Feature availability
-----------	----------------------

4.17.3.35 setFeat_uart()

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

Set the pin's UART feature

Parameters

featState	Feature availability
-----------	----------------------

4.17.3.36 setFunc_gnd()

Set the pin to GND status

Parameters

funcState	Function availability	l
-----------	-----------------------	---

4.17.3.37 setFunc_gpio()

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

Set the pin to GPIO status

Parameters

```
funcState Function availability
```

4.17.3.38 setFunc_misc()

Set the pin to MISC status

Parameters

funcState	Function availability

4.17.3.39 setFunc_reset()

Set the pin to RESET status

Parameters

funcState	Function availability

4.17.3.40 setFunc_vcc()

Set the pin to Vcc status

Parameters

funcState	Function availability
-----------	-----------------------

4.17.3.41 setl2c()

Set the pin's I2C

Parameters

feature Pin's I2C

4.17.3.42 setInt()

Set the pin's interruption

Parameters

feature Pin's interruption

4.17.3.43 setName()

void microcontroller.Pin.setName (

```
String pinName )
```

Set the pin's name

Parameters

```
pinName Pin's name
```

4.17.3.44 setNumber()

```
\label{eq:controller.Pin.setNumber (} % \begin{subarray}{ll} \begin{su
```

Set the pin's number

Parameters

```
pinNum | Pin's number
```

4.17.3.45 setPort()

Set the pin's port

Parameters

```
pinPort | Pin's port
```

4.17.3.46 setReset()

Set the pin's reset

Parameters

```
feature | Pin's reset
```

4.17.3.47 setSpi()

```
void microcontroller.Pin.setSpi ( String\ \textit{feature}\ )
```

Set the pin's SPI

Parameters

```
feature Pin's SPI
```

4.17.3.48 setTimer()

Set the pin's timer

Parameters

```
feature | Pin's timer
```

4.17.3.49 setUart()

Set the pin's UART

Parameters

feature	Pin's UART

4.17.4 Member Data Documentation

4.17.4.1 DEF_FEATURE

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

Default value for pin's feature as not available

4.17.4.2 DEF_FEATURE_AV

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

Default value for pin's feature availability as not available

4.17.4.3 DEF_FUNCTION

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

Default value for pin's function as not enabled

4.17.4.4 DEF_NAME

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

Default value for pin's name

4.17.4.5 **DEF_NUMBER**

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

Default value for pin's number

4.17.4.6 DEF_PORT

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

Default value for pin's port

4.17.4.7 DISABLE

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

Disable value for features and functions

4.17.4.8 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

4.18 configurator.PinConf Class Reference

Public Member Functions

- PinConf (Pin gpioPin)
- boolean isValid ()
- String getPort ()
- String getPinName ()
- String getCodeName ()
- void setCodeName (String name)
- Mode getMode ()
- void setMode (Mode mode)
- 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_altFunc ()

Static Public Attributes

- static final Mode DF_MODE = Mode.MODE_INPUT
- 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 = ""

4.18.1 Detailed Description

GPIO pin configuration

Author

Miguel Diaz

Version

0.1

4.18.2 Constructor & Destructor Documentation

4.18.2.1 PinConf()

Constructor

Parameters

gpioPin Pin information

4.18.3 Member Function Documentation

4.18.3.1 getCodeName()

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

Get the pin's user selected name

Returns

pin's name

```
4.18.3.2 getMode()
Mode configurator.PinConf.getMode ( )
Get the pin's mode configuration
Returns
     Mode
4.18.3.3 getOutLevel()
OutLevel configurator.PinConf.getOutLevel ( )
Get the pin's output level
Returns
     Pin's output level
4.18.3.4 getOutType()
OutType configurator.PinConf.getOutType ( )
Get the pin's output configuration
Returns
     Output configuration
4.18.3.5 getPinName()
String configurator.PinConf.getPinName ( )
Get the pin's number
Returns
```

Pin's number

```
4.18.3.6 getPort()
String configurator.PinConf.getPort ( )
Get the pin's port
Returns
     Port
4.18.3.7 getPull()
Pull configurator.PinConf.getPull ( )
Get the pin's pull resistor configuration
Returns
     Pull Resistor configuration
4.18.3.8 getSpeed()
Speed configurator.PinConf.getSpeed ( )
Get the pin's speed
Returns
     Speed
4.18.3.9 isAv_Adc()
boolean configurator.PinConf.isAv_Adc ( )
Check availability of ADC
Returns
```

True if ADC is available

```
4.18.3.10 isAv_altFunc()
```

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

Check the availability of alternate function

Returns

True if alternate function is available

```
4.18.3.11 isValid()
```

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

Check if the GPIO pin is valid

Returns

True if valid

4.18.3.12 setCodeName()

```
void configurator.PinConf.setCodeName ( String \ \textit{name} \ )
```

Set the pin's user selected name

Parameters

4.18.3.13 setMode()

Set the pin's mode configuration

Parameters

4.18.3.14 setOutLevel()

Set the pin's output level

Parameters

```
level Pin's output level
```

4.18.3.15 setOutType()

Set the pin's output configuration

Parameters

4.18.3.16 setPull()

Set the pull resistor configuration

Parameters

pull Resistor configuration

```
4.18.3.17 setSpeed()
```

Set the pin's speed

Parameters

speed Speed

4.18.4 Member Data Documentation

```
4.18.4.1 DF_CODE_NAME
```

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

Default pin's code name

```
4.18.4.2 DF_MODE
```

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

Default Pin mode

```
4.18.4.3 DF_OUT_LEVEL
```

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

Default pin's output level

4.18.4.4 DF_OUTTYPE

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

Default pin's output type

4.18.4.5 DF_PULL final Pull configurator.PinConf.DF_PULL = Pull.PULL_NOT_AVAILABLE [static] Default pin's pull resistor 4.18.4.6 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

4.19 projectConfiguration.ProjectSettings Class Reference

Public Member Functions

- ProjectSettings ()
- ErrorCode processDocument ()
- ErrorCode openProjectFile (File inFile)
- File getConfFile ()
- File getUcFile ()
- String getProjectName ()
- String getFrameworkPath ()

4.19.1 Detailed Description

Project settings class

Author

Miguel Diaz

Version

0.2

4.19.2 Constructor & Destructor Documentation

```
4.19.2.1 ProjectSettings()
projectConfiguration.ProjectSettings.ProjectSettings ( )
Constructor
4.19.3 Member Function Documentation
4.19.3.1 getConfFile()
File projectConfiguration.ProjectSettings.getConfFile ( )
Get the project configuration file
Returns
     Project configuration file
4.19.3.2 getFrameworkPath()
{\tt String projectConfiguration.ProjectSettings.getFrameworkPath \ (\ )}
Get the framework folder
Returns
     framework folder
4.19.3.3 getProjectName()
String projectConfiguration.ProjectSettings.getProjectName ( )
Get the project's name
Returns
     Project's name
```

```
4.19.3.4 getUcFile()
File projectConfiguration.ProjectSettings.getUcFile ( )
Get the project microcontroller file
Returns
     Project microcontroller file
4.19.3.5 openProjectFile()
{\tt ErrorCode} \ {\tt projectConfiguration.ProjectSettings.openProjectFile} \ (
              File inFile )
Open the project settings file
Parameters
 inFile
         Project file
Returns
     Error Status
4.19.3.6 processDocument()
ErrorCode projectConfiguration.ProjectSettings.processDocument ( )
Process the document obtained from the XML file
Returns
```

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

• src/projectConfiguration/ProjectSettings.java

Error Status

4.20 configurator.GPIO.Pull Enum Reference

Static Public Member Functions

• static Pull getConfFromString (String conf)

Public Attributes

- PULL_UP
- PULL_DOWN
- PULL_NOT_AVAILABLE
- PULL_MAX_VALUE

Static Public Attributes

• static final String STR_NAME = "Pull"

4.20.1 Detailed Description

Pin's pull resistor

Author

Miguel Diaz

Version

0.1

4.20.2 Member Function Documentation

4.20.2.1 getConfFromString()

Get the corresponding Pull configuration from its name as String

Parameters

conf Configuration name

Returns

Pull configuration

4.20.3 Member Data Documentation

```
4.20.3.1 PULL_DOWN
```

configurator.GPIO.Pull.PULL_DOWN

Pull Down

4.20.3.2 PULL_MAX_VALUE

configurator.GPIO.Pull.PULL_MAX_VALUE

Maximum value for Pull enum

4.20.3.3 PULL_NOT_AVAILABLE

configurator.GPIO.Pull.PULL_NOT_AVAILABLE

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

4.20.3.4 PULL_UP

configurator.GPIO.Pull.PULL_UP

Pull Up

4.20.3.5 STR_NAME

static 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

4.21 configurator.GPIO.Speed Enum Reference

Static Public Member Functions

• static Speed getConfFromString (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"

4.21.1 Detailed Description

Pin's speed

Author

Miguel Diaz

Version

0.1

4.21.2 Member Function Documentation

4.21.2.1 getConfFromString()

Get the corresponding Speed configuration from its name as String

Parameters

conf Configuration na	ıme
-----------------------	-----

Returns

Speed

4.21.3 Member Data Documentation

```
4.21.3.1 SPEED_FAST
```

configurator.GPIO.Speed.SPEED_FAST

Fast

4.21.3.2 SPEED_HIGH

configurator.GPIO.Speed.SPEED_HIGH

High

4.21.3.3 SPEED_MAX_VALUE

 $\verb|configurator.GPIO.Speed.SPEED_MAX_VALUE| \\$

Maximum value for Speed enum

4.21.3.4 SPEED_MEDIUM

configurator.GPIO.Speed.SPEED_MEDIUM

Medium

4.21.3.5 SPEED_NOT_AVAILABLE

configurator.GPIO.Speed.SPEED_NOT_AVAILABLE

Not all MCUs will have this setting

4.21.3.6 STR_NAME

```
static 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

4.22 xmlParser.TestMain Class Reference

Static Public Member Functions

• static void main (String[] openOption)

4.22.1 Detailed Description

Dummy main class for testing the other classes

Author

Miguel Diaz

4.22.2 Member Function Documentation

4.22.2.1 main()

Main without GUI

Parameters

openOption	Options
	include:

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

src/xmlParser/TestMain.java

4.23 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)

4.23.1 Detailed Description

Open and process XML files

Author

H112943

Version

0.1

4.23.2 Constructor & Destructor Documentation

```
4.23.2.1 XmlOpener()
```

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

Constructor

4.23.3 Member Function Documentation

4.23.3.1 getElementInfo()

Get an XML sub element information

Parameters

element	XML main element
elementName	Sub element's name

Returns

Sub elemen't information

4.23.3.2 getElementInfoFromDoc()

Get an XML element information

Parameters

doc	Document from XML file
elementName	Element's name

Returns

Element's information

4.23.3.3 getParsedDoc()

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

Get the parsed document AFTER opening the file

Returns

Parsed document

4.23.3.4 OpenFile()

Open the XML file

Parameters	
-------------------	--

Returns

Error code

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

• src/xmlParser/XmlOpener.java

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