Documentacion proyecto final

Table of Contents

1. Project description
2. Code component descriptions
   2.1. DQMH® modules
      2.1.1. Preamble
      2.1.2. Modules overview
      2.1.3. DQMH module.lvlib
   2.2. Libraries
   2.3. Classes
      2.3.1. Serial Device.lvclass
      2.3.2. Delacor_lib_QMH_Cloneable Module Admin.lvclass
      2.3.3. Delacor_lib_QMH_Message Queue.lvclass
      2.3.4. Delacor_lib_QMH_Module Admin.lvclass
      2.3.5. Arduino.lvclass
      2.3.6. Cypress.lvclass
      2.3.7. Simulado.lvclass
3. VI descriptions
   3.1. DQMH® modules
      3.1.1. DQMH module.lvlib
   3.2. Libraries
   3.3. Classes
      3.3.1. Serial Device.lvclass
      3.3.2. Delacor_lib_QMH_Cloneable Module Admin.lvclass
      3.3.3. Delacor_lib_QMH_Message Queue.lvclass
      3.3.4. Delacor_lib_QMH_Module Admin.lvclass
      3.3.5. Arduino.lvclass
      3.3.6. Cypress.lvclass
      3.3.7. Simulado.lvclass
4. Legal Information
   4.1. Document creation
      4.1.1. Antidoc
      4.1.2. Asciidoc for LabVIEW™
      4.1.3. Graph Builder
   4.2. Product used in the project
      4.2.1. DQMH®

1. Project description

No description found (add content in project description)

2. Code component descriptions

2.1. DQMH® modules

This section describes DQMH® module responsibilities and relationships.

2.1.1. Preamble

A DQMH module is the main component of an architecture based on DQMH® framework. A DQMH module is used to implement a section of the application that has one responsibility.

DQMH® framework defines two different type of DQMH module.

Singleton:

A Singleton DQMH module can have only one instance running at any given time.

Cloneable:

A Cloneable DQMH module can have one or multiple instances running in parallel.

DQMH® framework defines two different ways to carry data throughout the application and with both other DQMH modules and non-DQMH based code.

Request events:

A request is a code that fires an event requesting the DQMH module to do something. Multiple locations in the code can send events to the DQMH module.

Request events are many-to-one.

Requests are usually named using imperative tense.

Broadcast events:

A broadcast is a code that fires an event broadcasting that the DQMH module did something. Multiple Event Structures can register to handle the Broadcast Events.

Broadcast Events are one-to-many.

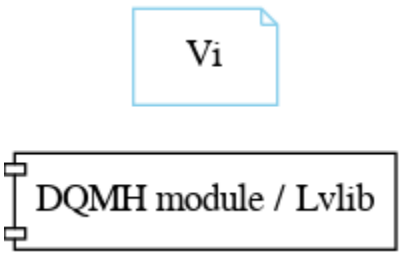
Broadcasts are usually named using past tense or passive voice.

Refer to the DQMH® framework official documentation (http://delacor.com/documentation/dqmh-html/) to find more details on how the framework works

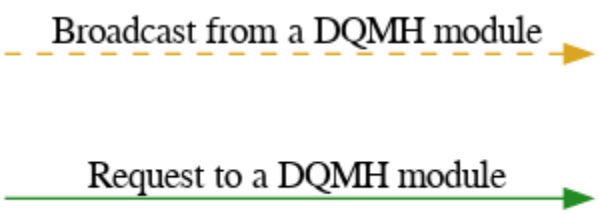
The following section gives you details on the project architecture relying on this framework. It gives you an overview of the modules' interaction and detailed information on each module.

Graphs used in this section have the following legend:

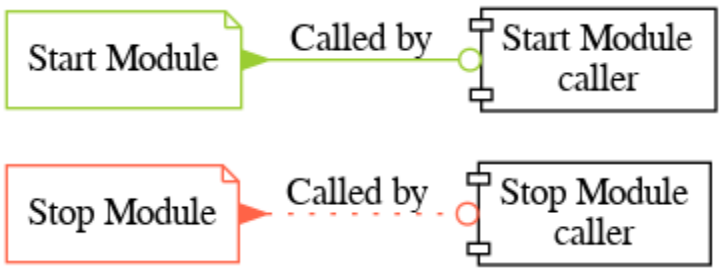
Components:



Events:



Start and Stop module callers:



2.1.2. Modules overview

This project contains the following modules.

Table 1. Modules list

Singleton	Cloneable
	DQMH module.lvlib

This graph represents the links between all DQMH modules.

2.1.3. DQMH module.lvlib

Type: Cloneable

Responsibility: No description found (add content in DQMH module lvlib description)

Module Start/Stop calls

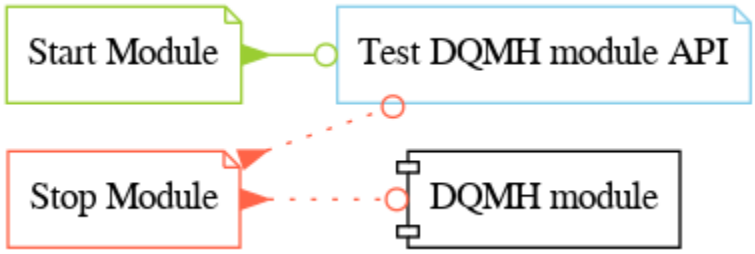


Table 2. Start and Stop module callers

Function	Callers
DQMH module.lvlib:Start Module.vi	Test DQMH module API.vi
DQMH module.lvlib:Stop Module.vi	DQMH module.lvlib:Handle Exit.vi Test DQMH module API.vi

Module relationship

Table 3. Requests callers

Request Name	Callers
DQMH module.lvlib:Show Panel.vi	Test DQMH module API.vi
DQMH module.lvlib:Hide Panel.vi	Test DQMH module API.vi
DQMH module.lvlib:Show Diagram.vi	Test DQMH module API.vi
DQMH module.lvlib:Read ADC.vi	Test DQMH module API.vi
DQMH module.lvlib:Set Port Status.vi	Test DQMH module API.vi
DQMH module.lvlib:Get Port Status.vi	Test DQMH module API.vi
DQMH module.lvlib:Set Pin.vi	Test DQMH module API.vi

Request Name	Callers
DQMH module.lvlib:Get Pin Status.vi	Test DQMH module API.vi

Table 4. Broadcasts Listeners

Broadcast Name	Listeners
DQMH module.lvlib:Module Did Init.vi	Test DQMH module API.vi
DQMH module.lvlib:Status Updated.vi	Test DQMH module API.vi
DQMH module.lvlib:Error Reported.vi	Test DQMH module API.vi
DQMH module.lvlib:Module Did Stop.vi	Test DQMH module API.vi
DQMH module.lvlib:Update Module Execution Status.vi	Test DQMH module API.vi

Table 5. Used requests

Module	Broadcasts
—	—

Table 6. Registered broadcast

Module	Broadcasts
—	—

2.2. Libraries

This section describes the libraries contained in the project.

2.3. Classes

This section describes the classes contained in the project.

2.3.1. Serial Device.lvclass

El serial device es el papa de los hijos

2.3.2. Delacor_lib_QMH_Cloneable Module Admin.lvclass

No description found (add content in lvlib description)

2.3.3. Delacor_lib_QMH_Message Queue.lvclass

No description found (add content in lvlib description)

2.3.4. Delacor_lib_QMH_Module Admin.lvclass

No description found (add content in lvlib description)

2.3.5. Arduino.lvclass

No description found (add content in lvlib description)

2.3.6. Cypress.lvclass

Clase del microcontrolador Cypress

2.3.7. Simulado.lvclass

Clase del microcontrolador simulado

3. VI descriptions

3.1. DQMH® modules

This section describes DQMH® modules events.

3.1.1. DQMH module.lvlib

DQMH module.lvlib:Start Module.vi

Event type: Not a DQMH Event

Description:

Launches the Module Main.vi. _____ Based on Delacor QMH Project Template 5.0.0.82.

DQMH module.lvlib:Stop Module.vi

Event type: Not a DQMH Event

Description:

Send the Stop request to the Module's Main.vi. _____ Based on Delacor QMH Project Template 5.0.0.82.

DQMH module.lvlib:Show Panel.vi

Event type: Request

Description:

Send the Show Panel request to the Module's Main.vi. _____ Based on Delacor QMH Project Template 5.0.0.82.

DQMH module.lvlib:Hide Panel.vi

Event type: Request

Description:

Send the Hide Panel request to the Module's Main.vi. _____ Based on Delacor QMH Project Template 5.0.0.82.

DQMH module.lvlib:Show Diagram.vi

Event type: Request

Description:

This VI tells the Module to show its block diagram to facilitate troubleshooting (add probes, breakpoints, highlight execution, etc). _____ Based on Delacor QMH Project Template 5.0.0.82.

DQMH module.lvlib:Read ADC.vi

Event type: Request

DQMH module.lvlib:Read ADC.vi

Description:

_____ Created using Delacor QMH Event Scripter 5.0.0.112.

DQMH module.lvlib:Set Port Status.vi

Event type: Request

DQMH module.lvlib:Set Port Status.vi

Description:

_____ Created using Delacor QMH Event Scripter 5.0.0.112.

DQMH module.lvlib:Get Port Status.vi

Event type: Request

DQMH module.lvlib:Get Port Status.vi

Description:

_____ Created using Delacor QMH Event Scripter 5.0.0.112.

DQMH module.lvlib:Set Pin.vi

Event type: Request

DQMH module.lvlib:Set Pin.vi

Description:

_____ Created using Delacor QMH Event Scripter 5.0.0.112.

DQMH module.lvlib:Get Pin Status.vi

Event type: Request

DQMH module.lvlib:Get Pin Status.vi

Description:

_____ Created using Delacor QMH Event Scripter 5.0.0.112.

DQMH module.lvlib:Module Did Init.vi

Event type: Broadcast

DQMH module.lvlib:Module Did Init.vi

Description:

Send the Module Did Init event to any VI registered to listen to this module's broadcast events. _____ Based on Delacor QMH Project Template 5.0.0.82.

DQMH module.lvlib:Status Updated.vi

Event type: Broadcast

DQMH module.lvlib:Status Updated.vi

Description:

Send the Status Updated event to any VI registered to listen to events from the owning module. _____ Based on Delacor QMH Project Template 5.0.0.82.

DQMH module.lvlib:Error Reported.vi

Event type: Broadcast

DQMH module.lvlib:Error Reported.vi

Description:

Send the Error Reported event to any VI registered to listen to events from the owning module. _____ Based on Delacor QMH Project Template 5.0.0.82.

DQMH module.lvlib:Module Did Stop.vi

Event type: Broadcast

DQMH module.lvlib:Module Did Stop.vi

Description:

Send the Module Did Stop event to any VI registered to listen to this module's broadcast events. _____ Based on Delacor QMH Project Template 5.0.0.82.

DQMH module.lvlib:Update Module Execution Status.vi

Event type: Broadcast

DQMH module.lvlib:Update Module Execution Status.vi

Description:

Fire the Get Module Execution Status request. _____ Created using Delacor QMH Event Scripter 3.0.0.12. _____ Based on Delacor QMH Project Template 5.0.0.82.

3.2. Libraries

This section describes libraries public VIs.

3.3. Classes

This section describes classes public VIs.

3.3.1. Serial Device.lvclass

Serial Device.lvclass:Read Serial Device Brand.vi

Serial Device.lvclass:Read Serial Device Brand.vi

Description: No description found (add content in VI description)

Serial Device.lvclass:Write Serial Device Brand.vi

Serial Device.lvclass:Write Serial Device Brand.vi

Description: No description found (add content in VI description)

Serial Device.lvclass:Read Visa Com Port.vi

Serial Device.lvclass:Read Visa Com Port.vi

Description: No description found (add content in VI description)

Serial Device.lvclass:Write Visa Com Port.vi

Serial Device.lvclass:Write Visa Com Port.vi

Description: No description found (add content in VI description)

Serial Device.lvclass:Get pin Status Response.vi

Serial Device.lvclass:Get pin Status Response.vi

Description:

Toma el estado del pin seleccionado y los lee, despues los muestra

Serial Device.lvclass:Get pin Status.vi

Serial Device.lvclass:Get pin Status.vi

Description:

Lee el estado de los pines

Serial Device.lvclass:Get port Status.vi

Serial Device.lvclass:Get port Status.vi

Description:

El get port status se encarga de leer el estado de los puertos

Serial Device.lvclass:Get status Response.vi

Serial Device.lvclass:Get status Response.vi

Description:

Lee el estado de los puertos y los muestra

Serial Device.lvclass:Read ADC.vi

Serial Device.lvclass:Read ADC.vi

Description:

Lee La informacion que hay en el ADC

Serial Device.lvclass:Read Response ADC.vi

Serial Device.lvclass:Read Response ADC.vi

Description:

El read response ADC lee lainformacion del ADC y la muestra

Serial Device.lvclass:Set pin status.vi

Serial Device.lvclass:Set pin status.vi

Description:

Set pin status Manda la instruccion del pin y la manda al get pin status

Serial Device.lvclass:Set port.vi

Serial Device.lvclass:Set port.vi

Description:

Lee el puerto y su valor y lo manda a get port status

Serial Device.lvclass:close visa.vi

Serial Device.lvclass:close visa.vi

Description:

Close visa cierra el puerto de comunicacion

Serial Device.lvclass:initialaize.vi

Serial Device.lvclass:initialaize.vi

Description:

Initialaize es el encargado de iniciar la secuencia, preguintando por el micro y el puerto

Serial Device.lvclass:Serial read.vi

Serial Device.lvclass:Serial read.vi

Description:

Nos permite la comunicacion entre el micro y labview

Serial Device.lvclass:Commmand.vi

Serial Device.lvclass:Commmand.vi

Description:

Este command nos sirve para preguntar por el micro controlador, su valor y mandarlo al command to send

Serial Device.lvclass:command template.vit

Serial Device.lvclass:command template.vit

Description:

Template para facilitar la creacion de los metodos hijos.

3.3.2. Delacor_lib_QMH_Cloneable Module Admin.lvclass

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Get Close Master Reference.vi

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Get Close Master Reference.vi

Description:

Specifies whether or not the master VI reference used for launching clones should be closed by the Close Module VI when the cloneable module is shutting down. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Set Close Master Reference.vi

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Set Close Master Reference.vi

Description:

Specifies whether or not the master VI reference used for launching clones should be closed by the Close Module VI when the cloneable module is shutting down. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Get First.vi

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Get First.vi

Description:

Specifies whether or not this clone is the first one that was launched. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Set First.vi

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Set First.vi

Description:

Specifies whether or not this clone is the first one that was launched. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Get Module ID.vi

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Get Module ID.vi

Description:

The numeric identifier of a running instance of a cloneable module. If the module is running as a singleton, the value will be 0. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Set Module ID.vi

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Set Module ID.vi

Description:

The numeric identifier of a running instance of a cloneable module. If the module is running as a singleton, the value will be 0. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Cloneable Admin Class—constant.vi

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Cloneable Admin Class—constant.vi

Description:

____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Cloneable Admin Class—control.vi

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Cloneable Admin Class—control.vi

Description:

____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Reset.vi

Delacor_lib_QMH_Cloneable Module Admin.lvclass:Delacor_lib_QMH_Reset.vi

Description:

____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

3.3.3. Delacor_lib_QMH_Message Queue.lvclass

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Check Loop Error.vi

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Check Loop Error.vi

Description:

Check the 'error to process' to see if its code value matches any of the values in the 'Ignore Errors' array. If so, do nothing. If not, send an "Error" message containing the error data to the Message Handling Loop for further processing. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Error Handler - Event Handling Loop.vi

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Error Handler - Event Handling Loop.vi

Description:

Process an error that occurred in the Event Handling Loop, either by ignoring it, or generating an "Error" message. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Error Handler - Message Handling Loop.vi

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Error Handler - Message Handling Loop.vi

Description:

Process an error that occurred in the Message Handling Loop, either by ignoring it, or generating an "Error" message. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Create Message Queue.vi

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Create Message Queue.vi

Description:

This VI creates and initializes the message queue for a QMH Module. If the message needs to be different for the given module, then create a child class of Message Queue and override the appropriate methods. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Dequeue Message.vi

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Dequeue Message.vi

Description:

This VI pulls messages off the Message Queue. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Flush Messages.vi

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Flush Messages.vi

Description:

Flush the message queue. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Release Message Queue.vi

Delacor_lib_QMH_Message Queue.lvclass:Delacor_lib_QMH_Release Message Queue.vi

Description:

Release the message queue. ____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

3.3.4. Delacor_lib_QMH_Module Admin.lvclass

Delacor_lib_QMH_Module Admin.lvclass:Delacor_lib_QMH_Get External Launch.vi

Delacor_lib_QMH_Module Admin.lvclass:Delacor_lib_QMH_Get External Launch.vi

Description:

____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Module Admin.lvclass:Delacor_lib_QMH_Set External Launch.vi

Delacor_lib_QMH_Module Admin.lvclass:Delacor_lib_QMH_Set External Launch.vi

Description:

____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Module Admin.lvclass:Delacor_lib_QMH_Admin Class—constant.vi

Delacor_lib_QMH_Module Admin.lvclass:Delacor_lib_QMH_Admin Class—constant.vi

Description:

____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Module Admin.lvclass:Delacor_lib_QMH_Admin Class—control.vi

Delacor_lib_QMH_Module Admin.lvclass:Delacor_lib_QMH_Admin Class—control.vi

Description:

____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

Delacor_lib_QMH_Module Admin.lvclass:Delacor_lib_QMH_Reset.vi

Delacor_lib_QMH_Module Admin.lvclass:Delacor_lib_QMH_Reset.vi

Description:

____ Delacor QMH Palette 5.0.0.7 Copyright (c) 2020, Delacor

3.3.5. Arduino.lvclass

Arduino.lvclass:close visa.vi

Arduino.lvclass:close visa.vi

Description:

Override del papa close visa

Arduino.lvclass:Get pin Status Response.vi

Arduino.lvclass:Get pin Status Response.vi

Description:

Override del papa Get Pin Status Response

Arduino.lvclass:Get pin Status.vi

Arduino.lvclass:Get pin Status.vi

Description:

Override del papa Get pin status

Arduino.lvclass:Get port Status.vi

Arduino.lvclass:Get port Status.vi

Description:

Override del papa Get Port Status

Arduino.lvclass:Get status Response.vi

Arduino.lvclass:Get status Response.vi

Description:

Override del papa Get Status Response

Arduino.lvclass:initialaize.vi

Arduino.lvclass:initialaize.vi

Description:

Override del papa Initialaize

Arduino.lvclass:Read ADC.vi

Arduino.lvclass:Read ADC.vi

Description:

Override del papa Read ADC

Arduino.lvclass:Read Response ADC.vi

Arduino.lvclass:Read Response ADC.vi

Description:

Override del papa Read Response ADC

Arduino.lvclass:Set pin status.vi

Arduino.lvclass:Set pin status.vi

Description:

Override del papa Set pin Status

Arduino.lvclass:Set port.vi

Arduino.lvclass:Set port.vi

Description:

Override del papa Set Port

3.3.6. Cypress.lvclass

Cypress.lvclass:close visa.vi

Cypress.lvclass:close visa.vi

Description:

Override del papa close visa

Cypress.lvclass:Get pin Status Response.vi

Cypress.lvclass:Get pin Status Response.vi

Description:

Override del papa Get Pin Status Response

Cypress.lvclass:Get pin Status.vi

Cypress.lvclass:Get pin Status.vi

Description:

Override del papa Get Pin Status

Cypress.lvclass:Get port Status.vi

Cypress.lvclass:Get port Status.vi

Description:

Override del papa Get Port Status

Cypress.lvclass:Get status Response.vi

Cypress.lvclass:Get status Response.vi

Description:

Override del papa Get Status Response

Cypress.lvclass:initialaize.vi

Cypress.lvclass:initialaize.vi

Description:

Override del papa Initialaize

Cypress.lvclass:Read ADC.vi

Cypress.lvclass:Read ADC.vi

Description:

Override del papa Read ADC

Cypress.lvclass:Read Response ADC.vi

Cypress.lvclass:Read Response ADC.vi

Description:

Override del papa Read Response ADC

Cypress.lvclass:Set pin status.vi

Cypress.lvclass:Set pin status.vi

Description:

Override del papa Set Pin Status

Cypress.lvclass:Set port.vi

Cypress.lvclass:Set port.vi

Description:

Override del papa Set Port

3.3.7. Simulado.lvclass

Simulado.lvclass:Read Command response.vi

Simulado.lvclass:Read Command response.vi

Description: No description found (add content in VI description)

Simulado.lvclass:Write Command response.vi

Simulado.lvclass:Write Command response.vi

Description: No description found (add content in VI description)

Simulado.lvclass:close visa.vi

Simulado.lvclass:close visa.vi

Description:

Override del papa close visa

Simulado.lvclass:FGV variant.vi

Simulado.lvclass:FGV variant.vi

Description:

Está es una functional Global Variant, la cual nos permite colocar, tomar o resetear parametros del variant

Simulado.lvclass:Get pin Status Response.vi

Simulado.lvclass:Get pin Status Response.vi

Description: No description found (add content in VI description)

Simulado.lvclass:Get pin Status.vi

Simulado.lvclass:Get pin Status.vi

Description: No description found (add content in VI description)

Simulado.lvclass:Get port Status.vi

Simulado.lvclass:Get port Status.vi

Description: No description found (add content in VI description)

Simulado.lvclass:Get status Response.vi

Simulado.lvclass:Get status Response.vi

Description: No description found (add content in VI description)

Simulado.lvclass:initialaize.vi

Simulado.lvclass:initialaize.vi

Description: No description found (add content in VI description)

Simulado.lvclass:Read ADC.vi

Simulado.lvclass:Read ADC.vi

Description: No description found (add content in VI description)

Simulado.lvclass:Read Response ADC.vi

Simulado.lvclass:Read Response ADC.vi

Description: No description found (add content in VI description)

Simulado.lvclass:Set pin status.vi

Simulado.lvclass:Set pin status.vi

Description: No description found (add content in VI description)

Simulado.lvclass:Set port.vi

Simulado.lvclass:Set port.vi

Description: No description found (add content in VI description)

Simulado.lvclass:simulado ctl.vi

Simulado.lvclass:simulado ctl.vi

Description: No description found (add content in VI description)

4. Legal Information

4.1. Document creation

This document has been generated using the following tools.

4.1.1. Antidoc

Project website: Antidoc (https://wovalab.gitlab.io/open-source/labview-doc-generator/)

Maintainer website: Wovalab (https://wovalab.com)

BSD 3-Clause License

Copyright © 2019, Wovalab, All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

4.1.2. Asciidoc for LabVIEW™

Project website: Asciidoc toolkit (https://wovalab.gitlab.io/open-source/asciidoc-toolkit/)

Maintainer website: Wovalab (https://wovalab.com)

BSD 3-Clause License

Copyright © 2019, Wovalab, All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

4.1.3. Graph Builder

Project website: Graph Builder (https://gitlab.com/cgambini/graph-builder)

BSD 3-Clause License

Copyright (c) 2020, Cyril GAMBINI All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

4.2. Product used in the project

The documented project has been developed with the following products.

4.2.1. DQMH®

Copyright © 2015-2020 by Delacor, LLC. All Rights Reserved.

Find more details on Delacor (https://delacor.com/products/dqmh/) website