



TANGO
Device
Server

Gesdac2b single channel DAC User's Guide

Gesdac2b Class

Revision: Gesdac2b-Release_1_0_0 - Author: bourtemb
Implemented in C++ - CVS repository: ESRF

Introduction:

Gesdac2b single channel DAC class.

Class Inheritance:

- Tango::DeviceImpl
 - Dac
 - Gesdac2b

Class Description:

Properties:

Device Properties		
Property name	Property type	Description
BoardAddress	Tango::DEV_STRING	Base Address of Gesdac2b board. must begin with 0x
Channel	Tango::DEV_SHORT	channel possible values are 0 -> 7
Range	Tango::DEV_SHORT	range for output values Possible values for range are : 1 = DAC_STANDARD_RANGE : 0V to 10V 2 = DAC_MEDIUM_RANGE : -5V to +5V 3 = DAC_LARGE_RANGE : -10V to +10V
Fbus_pathname	Tango::DEV_STRING	Field bus pathname ex: /dev/cfb1
Fbus_nodenum	Tango::DEV_SHORT	Field bus node number.

Device Properties Default Values:

Property Name	Default Values
BoardAddress	0x000
Channel	0
Range	1
Fbus_pathname	/dev/cfb0
Fbus_nodenum	1

There is no Class properties.

States:

States	
Names	Descriptions
ON	The device is running.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Value: digital value	DEV_DOUBLE	READ_WRITE	No
Range: range for output values Possible values are : 1= DAC_STANDARD_RANGE : 0V to 10V 2= DAC_MEDIUM_RANGE : -5V to +5V 3= DAC_LARGE_RANGE : -10V to +10V	DEV_SHORT	READ_WRITE	No

Commands:

More Details on commands....

Device Commands for Operator Level		
Command name	Argument In	Argument Out
Init	DEV_VOID	DEV_VOID
State	DEV_VOID	DEV_STATE
Status	DEV_VOID	CONST_DEV_STRING

1 - Init

- **Description:** This commands re-initialise a device keeping the same network connection. After an Init command executed on a device, it is not necessary for client to re-connect to the device. This command first calls the device *delete_device()* method and then execute its *init_device()* method. For C++ device server, all the memory allocated in the *nit_device()* method must be freed in the *delete_device()* method. The language device desctructor automatically calls the *delete_device()* method.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_VOID : none.
- **Command allowed for:**
 - Tango::ON

2 - State

- **Description:** This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_STATE : State Code
- **Command allowed for:**
 - Tango::ON

3 - Status

- **Description:** This command gets the device status (stored in its *device_status* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
CONST_DEV_STRING : Status description
- **Command allowed for:**
 - Tango::ON

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