# **TEST DETAILS REPORT**

2022-04-06, 11:09:43+0200

CurrentInterface\_Ini\_2



Project MRW420
Module Stromregler

Test Object CurrentInterface\_Ini\_2

### Instrumentation: Test object and called functions

Statement (C0) Coverage	100 %
Decision Coverage	100 %
Branch (C1) Coverage	100 %
MCC Coverage	100 %
MC/DC Coverage	100 %

#### **Metrics**

Cyclomatic Complexity (CC)	2
Test Case to Complexity Ratio (TC/C)	1.50
Result Significance (RS)	<b>✓</b>

### **Statistics**

Total Testcases	3	
Successful	2	
Failed	1	×
Not Executed	0	

### **Module Properties**

Project Root Directory	C:\MOBA\TessyProject\MRW420_Tessy\MRW_Tessy_projekt		
Configuration File	\$(PROJECTROOT)\tessy\config\configuration.xml		
Target Environment	GNU GCC Eclipse CDT (Default)		
Kind of Test	Unit Test		
Linker Options			
Source Root Directory	C:\MOBA\TessyProject\MRW420_Tessy\MRW420_source		
Source File(s)			
File	\$(SOURCEROOT)\CurrentInterface.c		
Compiler Options	-DADuC836_ADC_PRIMARY_TOGGLE=2 -DCHANNEL_0 -DCURRENTINTERFACE_MIT_L_REGLER=1 -DFALSE=0 - DLIMIT_ALARMLIMIT_EXCEEDED=0x80 -DLIMIT_HANGINGLIMT_EXCEEDED=1 -DSYSTEMCND_ADC_BLOCKING_TIME_MS=200 - DSYSTEMTIME -DTRUE=1 -Dbit=char -DOFF=0 -DON=1		

Interface		
Element	Passing	Target Passing
External Functions		
float ADuC836_DACGetGain(unsigned char)		
float ADuC836_DACGetGain()	IN	
unsigned char ADuC836_DACGetGain(chWhat2Get)	IRRELEVANT	
Global Variables		
CURRENT_INTERFACE g_CurrentInterface	OUT	
FEEDBACK FeedBack	OUT	
RESULTS Results	IRRELEVANT	
MEASUREMENT_VALUE FilteredMeasurementFromADC	IRRELEVANT	
long nLong	IRRELEVANT	
float fFloat	IRRELEVANT	
MEASUREMENT_VALUE Deviation	IRRELEVANT	
long nLong	IRRELEVANT	
float fFloat	IRRELEVANT	
MEASUREMENT_VALUE CalibratedMeasurement	IRRELEVANT	
long nLong	IRRELEVANT	
float fFloat	IRRELEVANT	
unsigned char byNewMeasurement	IRRELEVANT	
float fSimulatedDerivation	IRRELEVANT	
float fMaxDeviation	OUT	
unsigned char byMaxDeviationCounter	OUT	

@ Report created by TESSY V4.3.12, report template V3.0

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Interface		
Element	Passing	Target Passing
char chIntegralPortion	IRRELEVANT	
char chProportionalPortion	IRRELEVANT	
DAC_T DAC	IRRELEVANT	
long IRatedDACOutput	IRRELEVANT	
long lCalPointFeedBack_RMW[2]	IRRELEVANT	
float fCalPointFeedBack_Actual[2]	IRRELEVANT	
unsigned char byAdjustCurrentInterface	IRRELEVANT	
long IRMWForCalibration[2]	IRRELEVANT	
unsigned char byConversionState	IRRELEVANT	
unsigned char byLastConversionState	IRRELEVANT	



#### Test Case 1 Test Step 1.1 (Repeat Count = 1) Input Value Name 0.47 ADuC836\_DACGetGain() Actual Value **Expected Value** Result Name SYSTEMCND\_MAX\_CURRENT\_DEVIATION (0.08) $g\_CurrentInterface. FeedBack.fMaxDeviation$ 0.08 (SYSTEMCND\_CURRENT\_DEVIATION\_C - 1) (12) $g\_CurrentInterface. FeedBack. by MaxDeviation Counter$ 12

Test Case 2		✓
Test Step 2.1 (Repeat Count = 1)		<b>✓</b>
Name	Input Value	
ADuC836_DACGetGain()	0.50	
Name	Actual Value	Expected Value Result
g_CurrentInterface.FeedBack.fMaxDeviation	0.16	SYSTEMCND_MAX_CURRENT_DEVIATION (0.16)
g_CurrentInterface.FeedBack.byMaxDeviationCounter	12	(SYSTEMCND_CURRENT_DEVIATION_C - 1) (12)

Test Step 2.2 (Repeat Count = 1)			<b>✓</b>
Name	Input Value		
ADuC836_DACGetGain()	1		
Name	Actual Value	Expected Value Re	esult
g_CurrentInterface.FeedBack.fMaxDeviation	0.16	SYSTEMCND_MAX_CURRENT_DEVIATION (0.16)	~
$g\_CurrentInterface. FeedBack. by MaxDeviation Counter$	12	(SYSTEMCND_CURRENT_DEVIATION_C - 1) (12)	~

Test Case 3			×
Test Step 3.1 (Repeat Count = 1)			V
<b>Comment</b> 0.48000001, da durch	float: 0.48 -> 0.479999989		
Name	Input Value		
ADuC836_DACGetGain()	0.48000001		
Name	Actual Value	Expected Value Resu	ılt
g_CurrentInterface.FeedBack.fMaxDeviation	0.16	SYSTEMCND_MAX_CURRENT_DEVIATION (0.16)	~
g_CurrentInterface.FeedBack.byMaxDeviationCounter	12	(SYSTEMCND_CURRENT_DEVIATION_C - 1) (12)	•

Test Step 3	3.2 (Repeat Count = 1)			E
Comment	Simulator ersetzt 0.48 durch 0.479999	9989		
Name		Input Value		
ADuC836_DACG	etGain()	0.48		
Name		Actual Value	Expected Value	Result
g_CurrentInterfa	ce.FeedBack.fMaxDeviation	0.08	SYSTEMCND_MAX_CURRENT_DEVIATION (0.16)	×
g_CurrentInterfac	e.FeedBack.byMaxDeviationCounter	12	(SYSTEMCND_CURRENT_DEVIATION_C - 1) (12)	•