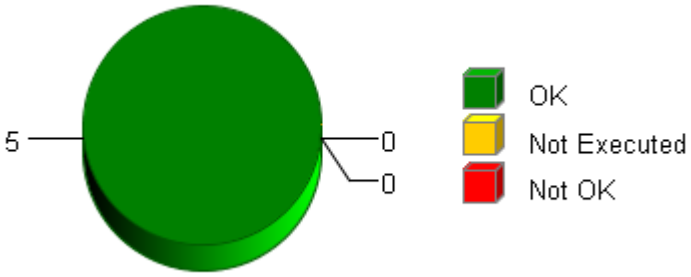
Summary

Total Test Objects:	5
Successful:	5
Failed:	0
Not Executed:	0
Date:	2014-12-17
Time:	19:02:53+0530

Overall Test Object Results (including Coverage)



Selected Project Items

Test Object "CBD_UnitTest/IoHwAbstractionUsr/IoHwAb_CaptureADC"
Test Object "CBD_UnitTest/IoHwAbstractionUsr/IoHwAb_Init"
Test Object "CBD_UnitTest/IoHwAbstractionUsr/IoHwAb_ReadADC"
Test Object "CBD_UnitTest/IoHwAbstractionUsr/IoHwAb_SlowADCGroupValidity"
Test Object "CBD_UnitTest/IoHwAbstractionUsr/IoHwAb_StartADC"

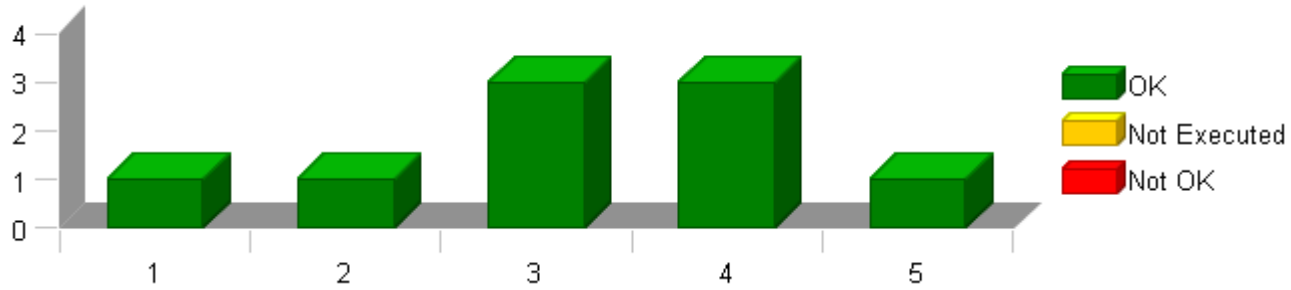
Used Test Environments

TI TMS 570 PLS UDE (Default)

Batch Operation Settings

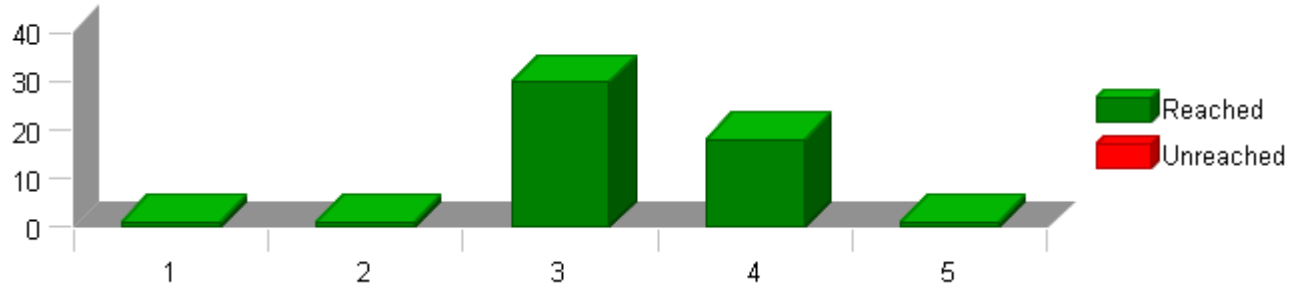
Check Interface:	No
Generate Driver:	Yes
Execute Test:	Yes
Create New Test Run:	No
Instrumentation:	Test Object Only
Coverage:	Statement Coverage, Branch Coverage, Decision Coverage, Modified Condition / Decision Coverage, Multiple Condition Coverage

Test Case Results for Each Test Object (without Coverage)



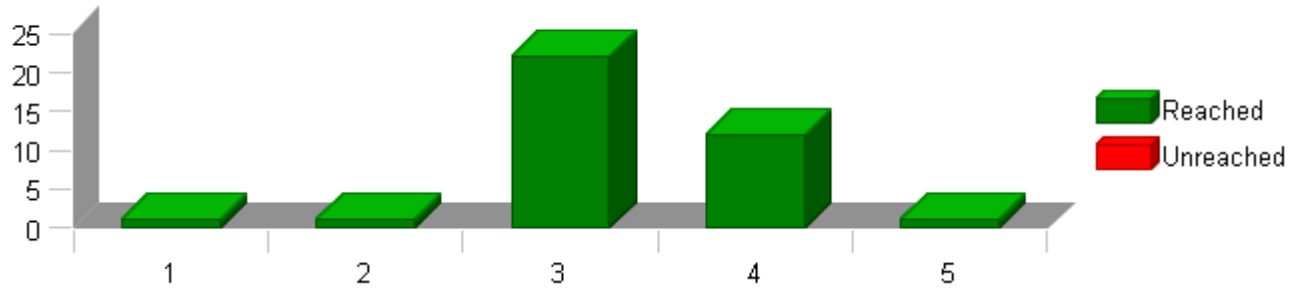
The table above shows each test object on the x axis and the number of test cases of the respective test object on the y axis. Each bar is divided into passed, not executed and failed test cases. The test case results do not take into account any coverage result (i.e. if all test cases of a test object are passed in this table but the coverage is failed, the overall test object result will be failed).

Statement (C0) Coverage: Total Statements for Each Test Object



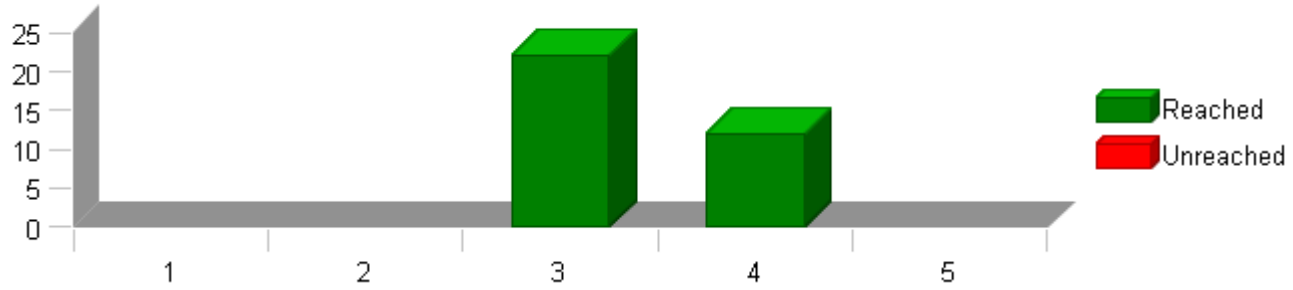
The table above shows each test object on the x axis and the number of statements of the respective test object on the y axis. Each bar is divided into reached statements (i.e. statements that have been executed during the test) and unreached statements.

Branch (C1) Coverage: Total Branches for Each Test Object



The table above shows each test object on the x axis and the number of branches of the respective test object on the y axis. Each bar is divided into reached branches (i.e. branches that have been executed during the test) and unreached branches.

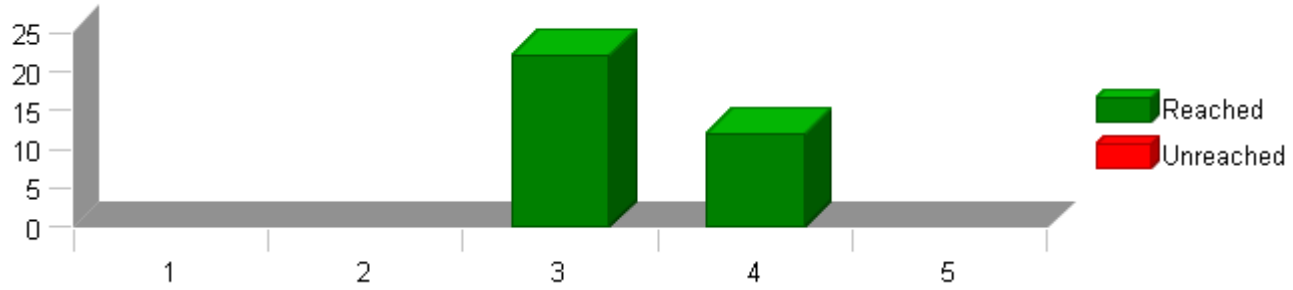
Decision Coverage: Total Decision Outcomes for Each Test Object



The table above shows test objects on the x axis and the number of possible outcomes of all decisions of the respective test object on the y axis. To achieve full DC coverage, each decision must evaluate to both true and false.

Each bar is divided into reached and unreached decision outcomes.

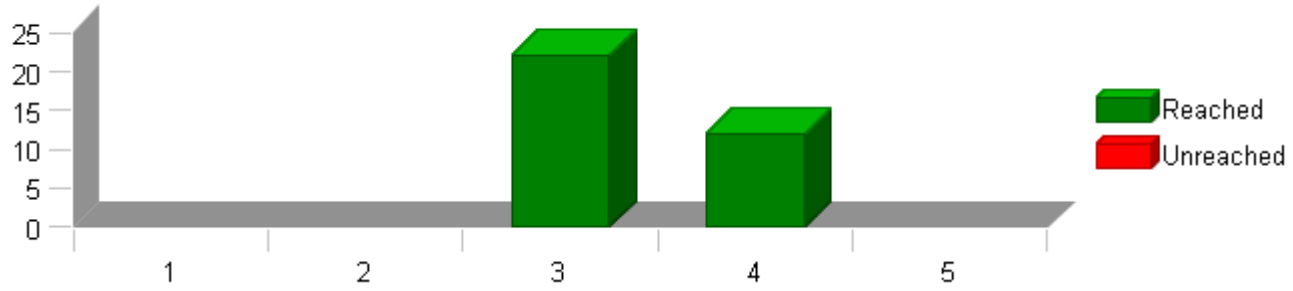
MC/DC Coverage: Total Condition Combinations for Each Test Object



The table above shows test objects on the x axis and the number of condition combinations of all decisions of the respective test object on the y axis. The number of condition combinations is based on the number of boolean conditions within each decision of the test object. To achieve full MC/DC coverage, each decision requires all contained atomic conditions to evaluate to both true and false independently of all other conditions. The cumulated number of rows within such tables of condition combinations is what is displayed in this table.

Each bar is divided into reached condition combinations (i.e. combinations of boolean condition values that have been executed during the test) and unreached condition combinations.

MCC Coverage: Total Condition Combinations for Each Test Object



The table above shows test objects on the x axis and the number of condition combinations of all decisions of the respective test object on the y axis. The number of condition combinations is based on the number of boolean conditions within each decision of the test object. To achieve full MCC coverage, each decision requires all contained atomic conditions to evaluate to all possible combinations of true and false values. The cumulated number of rows within such tables of condition combinations is what is displayed in this table.

Each bar is divided into reached condition combinations (i.e. combinations of boolean condition values that have been executed during the test) and unreached condition combinations.

Test Object List

The following table lists all test objects with their test case and coverage results. The cumulated results for modules, folders and test collections are also displayed, the indentation within the name column indicates the parent relationship of the elements.

Please note that only test objects are numbered within the first column. This number is referenced on the x axis within the overview charts for test case and coverage results available on previous pages (if included into the report).

No.	Name	C0	C1	DC	MC/DC	MCC	Test Cases	Result
	IoHwAbstractionUsr	100 %	100 %	100 %	100 %	100 %	9 of 9 passed	✔
	CBD_UnitTest	100 %	100 %	100 %	100 %	100 %	9 of 9 passed	✔
	IoHwAbstractionUsr	100 %	100 %	100 %	100 %	100 %	9 of 9 passed	✔
1	IoHwAb_CaptureADC	100 %	100 %	-	-	-	1 of 1 passed	✔
2	IoHwAb_Init	100 %	100 %	-	-	-	1 of 1 passed	✔
3	IoHwAb_ReadADC	100 %	100 %	100 %	100 %	100 %	3 of 3 passed	✔
4	IoHwAb_SlowADCGroupValidity	100 %	100 %	100 %	100 %	100 %	3 of 3 passed	✔
5	IoHwAb_StartADC	100 %	100 %	-	-	-	1 of 1 passed	✔

TEST DETAILS REPORT

IoHwAb_StartADC

2014-12-17, 19:02:39+0530

Project	IoHwAbstractionUsr
Module	IoHwAbstractionUsr
Test Object	IoHwAb_StartADC

Instrumentation: Test Object Only

Statement (C0) Coverage	100 %
Branch (C1) Coverage	100 %

Statistics

Total Testcases	1
Successful	1
Failed	0
Not Executed	0

Module Properties

Project Root Directory	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr
Configuration File	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr\UnitTestEnv\config\TMS570_GCC_UDE_CCS4_Config.xml
Target Environment	TI TMS 570 PLS UDE (Default)
Kind of Test	Unit Test
Linker Options	
Source File(s)	
File	$(PROJECTROOT)\IoHwAbstractionUsr\src\IoHwAbstractionUsr.c
Compiler Options	-DSKIP_MAGIC_NUMBER= -D_DATA_ACCESS= -Dconst= -I$(PROJECTROOT)\IoHwAbstractionUsr\utp\contract -I$(PROJECTROOT)\IoHwAbstractionUsr\utp\contract\IoHwAbstractionUsr -I$(PROJECTROOT)\NxtrLib\include -I$(PROJECTROOT)\StdDef\include -I$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include -I$(PROJECTROOT)\StdDef\include\TMS570_HerculesRegs

Comments/Description/Specification

Name	Text
Module 'IoHwAbstractionUsr'	**********Unit Test Description********** Name of Tester: Ajit Shrivastava Code File(s) Under Test: IoHwAbstractionUsr.c Code File(s) Version: 5 Module Design Document: N/A Module Design Document Version: N/A Data Dictionary Version: 2 Unit Test Plan Version: 2 Optimization Level: Level 2 Compiler (CodeGen) Version: TMS470_4.9.5 Model Type: Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.31 Total FLASH Used (Bytes): 860 Total RAM Used (Bytes): 28 Total CALS Used (Bytes): 36 Special Test Requirements: Test Date: 12-17-2014 Comments:" NOTE 1 :Changes made in the file Rte_Types.h and adc_regs.h to provide declration to the used variables. NOTE 2 : In “IoHwAb_SlowADCGroupValidity” to have 100% coverage, Out of range value of “DMAData_G_str.SlowADC_Cnt_u16(i)” is taken . As per the Data Dictionary is 3762 so to satisfy “If (DMAData_G_str.SlowADC_Cnt_u16(i) = &HFFFF)” the value is taken as 65535. NOTE 3 : ""CBD_Sandbox_dbg.map"" map file is embedded for reference. " **********

Attributes

Name	Value
Compiler Install Path	$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5
Float Precision	9
InitObjDir	$(PROJECTROOT)\UnitTestEnv\static_build_files\obj
InitSrcDir	$(PROJECTROOT)\UnitTestEnv\static_build_files\src
Linker File	$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	$(ProgramFiles)\pls\UDE 4.0
Time Unit	Cycles
Timer Enabled	false
Timer Prescale	0

Attributes

Name	Value
Timer Resolution	1
UDE Config File	$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg
Workspace File	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

Test Case 1: Boundary Test ✔

Specification

```
Performance Metrics (With "None" Instrumentation
and WithPS Environment)

CPU Cycles:

TS1.1 15.00 Cycles
```

Description

Vector Description

TS1.1 Test case to check output

Test Step 1.1 (Repeat Count = 1) ✔

Name	Input Value
adcREG1_temp	tgt_adcREG1_temp

Name	Actual Value	Expected Value	Result
CDD_ePWM4CMPB_Cnt_G_u16	100	100	✔
tgt_adcREG1_temp.GxSR[0]	0	0	✔
tgt_adcREG1_temp.GxSR[1]	0	0	✔
tgt_adcREG1_temp.GxSR[2]	1	1	✔

TEST DETAILS REPORT

IoHwAb_ReadADC

2014-12-17, 19:01:03+0530

Project	IoHwAbstractionUsr
Module	IoHwAbstractionUsr
Test Object	IoHwAb_ReadADC

Instrumentation: Test Object Only

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

Statistics

Total Testcases	3
Successful	3
Failed	0
Not Executed	0

Module Properties

Project Root Directory	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr
Configuration File	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr\UnitTestEnv\config\TMS570_GCC_UDE_CCS4_Config.xml
Target Environment	TI TMS 570 PLS UDE (Default)
Kind of Test	Unit Test
Linker Options	
Source File(s)	
File	$(PROJECTROOT)\IoHwAbstractionUsr\src\IoHwAbstractionUsr.c
Compiler Options	-DSKIP_MAGIC_NUMBER= -D_DATA_ACCESS= -Dconst= -I$(PROJECTROOT)\IoHwAbstractionUsr\utp\contract -I$(PROJECTROOT)\IoHwAbstractionUsr\utp\contract\IoHwAbstractionUsr -I$(PROJECTROOT)\NxtrLib\include -I$(PROJECTROOT)\StdDef\include -I$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include -I$(PROJECTROOT)\StdDef\include\TMS570_HerculesRegs

Comments/Description/Specification

Name	Text
Module 'IoHwAbstractionUsr'	**********Unit Test Description********** Name of Tester: Ajit Shrivastava Code File(s) Under Test: IoHwAbstractionUsr.c Code File(s) Version: 5 Module Design Document: N/A Module Design Document Version: N/A Data Dictionary Version: 2 Unit Test Plan Version: 2 Optimization Level: Level 2 Compiler (CodeGen) Version: TMS470_4.9.5 Model Type: Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.31 Total FLASH Used (Bytes): 860 Total RAM Used (Bytes): 28 Total CALS Used (Bytes): 36 Special Test Requirements: Test Date: 12-17-2014 Comments:" NOTE 1 :Changes made in the file Rte_Types.h and adc_regs.h to provide declration to the used variables. NOTE 2 : In “IoHwAb_SlowADCGroupValidity” to have 100% coverage, Out of range value of “DMAData_G_str.SlowADC_Cnt_u16(i)” is taken . As per the Data Dictionary is 3762 so to satisfy “If (DMAData_G_str.SlowADC_Cnt_u16(i) = &HFFFF)” the value is taken as 65535. NOTE 3 : ""CBD_Sandbox_dbg.map"" map file is embedded for reference. " **********

Attributes

Name	Value
Compiler Install Path	$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5
Float Precision	9
InitObjDir	$(PROJECTROOT)\UnitTestEnv\static_build_files\obj
InitSrcDir	$(PROJECTROOT)\UnitTestEnv\static_build_files\src
Linker File	$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl

Attributes

Name	Value
Target Install Path	$(ProgramFiles)\pls\UDE 4.0
Time Unit	Cycles
Timer Enabled	false
Timer Prescale	0
Timer Resolution	1
UDE Config File	$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg
Workspace File	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

TEST DETAILS REPORT

IoHwAb_ReadADC

2014-12-17, 19:01:03+0530

Test Case 1: Metrics Test

Specification

```
Performance Metrics (With "None" Instrumentation
and WithPS Environment)

CPU Cycles:

TS1.1  1542.00 Cycles
TS1.2  2955.00 Cycles
```

Description

Vector Description

TS1.1"Longest Path ==> If (True = DataValid_Cnt_T_lgc)=True;
If (Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=False;
If (Vref_Volt_M_f32 < k_VrefMin_Volts_f32)= True;
If (DiagFailed_m(IoHwAb_ADCVrefErrorAcc_Cnt_M_u16, k_VrefOORDiag_Cnt_str) = D_TRUE_CNT_LGC)=True;
"

TS1.2Shortest Path ==> If (True = DataValid_Cnt_T_lgc)=False;

Test Step 1.1 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	6.4000001
Batt_Volt_M_f32	6.30000019
DMAData_G_str.SlowADC_Cnt_u16[0]	3100
DMAData_G_str.SlowADC_Cnt_u16[1]	3200
DMAData_G_str.SlowADC_Cnt_u16[2]	3000
DMAData_G_str.SlowADC_Cnt_u16[3]	3762
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	1
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	7.4000001
Temperature_Volt_M_f32	0.5
Vref_Volt_M_f32	180.5
k_ADCVrefScaling_Uls_f32	1
k_SlowADCValidDiag_Cnt_str.Threshold	1
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	4.5
k_VrefMin_Volts_f32	4.5
k_VrefOORDiag_Cnt_str.Threshold	300
k_VrefOORDiag_Cnt_str.PStep	300
k_VrefOORDiag_Cnt_str.NStep	500
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.4000001
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.30000019
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	7.4000001
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.5
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	15.4782562	15.4782562 ± 0.00732600732600733	✔
Batt_Volt_M_f32	26.3624001	26.3623981 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	300	300 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	2	2	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	5.00307274	5.00307274 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.78510404	3.7851038 ± 0.00122100122100122	✔
Vref_Volt_M_f32	3.66300368	3.66300368 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	15.4782562	15.4782562 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	26.3624001	26.3623981 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.00307274	5.00307274 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.78510404	3.7851038 ± 0.00122100122100122	✔

Test Step 1.2 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	5.5999999
Batt_Volt_M_f32	5.5
DMAData_G_str.SlowADC_Cnt_u16[0]	65535
DMAData_G_str.SlowADC_Cnt_u16[1]	65535
DMAData_G_str.SlowADC_Cnt_u16[2]	65535
DMAData_G_str.SlowADC_Cnt_u16[3]	65535

TEST DETAILS REPORT

IoHwAb_ReadADC

2014-12-17, 19:01:03+0530

Name	Input Value
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	15
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	5.80000019
Temperature_Volt_M_f32	0.100000001
Vref_Volt_M_f32	100.099998
k_ADCVrefScaling_Uls_f32	1
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	2
k_VrefMin_Volts_f32	0
k_VrefOORDiag_Cnt_str.Threshold	0
k_VrefOORDiag_Cnt_str.PStep	5
k_VrefOORDiag_Cnt_str.NStep	0
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.5999999
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.80000019
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.100000001
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.5999999	5.5999999 ± 0.00732600732600733	✔
Batt_Volt_M_f32	5.5	5.5 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	15	15 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	2	2	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	5.80000019	5.80000019 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	0.100000001	0.100000001 ± 0.00122100122100122	✔
Vref_Volt_M_f32	100.099998	100.099998 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.5999999	5.5999999 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.5	5.5 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.80000019	5.80000019 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.100000001	0.100000001 ± 0.00122100122100122	✔

Test Case 2: Boundary Test

Specification

```
Performance Metrics (With "None" Instrumentation
and WithPS Environment)

CPU Cycles:

TS2.1 1535.00 Cycles
TS2.2 1469.00 Cycles
TS2.3 1424.00 Cycles
TS2.4 1424.00 Cycles
TS2.5 1424.00 Cycles
TS2.6 1424.00 Cycles
TS2.7 1424.00 Cycles
TS2.8 1424.00 Cycles
TS2.9 1424.00 Cycles
TS2.10 1424.00 Cycles
TS2.11 1424.00 Cycles
TS2.12 1424.00 Cycles
TS2.13 1424.00 Cycles
TS2.14 1424.00 Cycles
TS2.15 1424.00 Cycles
TS2.16 1424.00 Cycles
TS2.17 1424.00 Cycles
TS2.18 1424.00 Cycles
TS2.19 1424.00 Cycles
TS2.20 1424.00 Cycles
TS2.21 1424.00 Cycles
TS2.22 1424.00 Cycles
TS2.23 1424.00 Cycles
TS2.24 1424.00 Cycles
TS2.25 1424.00 Cycles
TS2.26 1424.00 Cycles
TS2.27 1424.00 Cycles
TS2.28 1424.00 Cycles
TS2.29 1424.00 Cycles
TS2.30 1424.00 Cycles
TS2.31 1424.00 Cycles
TS2.32 1424.00 Cycles
TS2.33 1424.00 Cycles
TS2.34 1424.00 Cycles
TS2.35 1424.00 Cycles
TS2.36 1424.00 Cycles
TS2.37 1424.00 Cycles
TS2.38 1424.00 Cycles
TS2.39 1424.00 Cycles
TS2.40 1424.00 Cycles
```

Description

Vector Description

TS2.1IoHwAb_ADCVrefErrorAcc_Cnt_M_u16=MIN
TS2.2IoHwAb_ADCVrefErrorAcc_Cnt_M_u16=MAX
TS2.3IoHwAb_ADCVrefErrorAcc_Cnt_M_u16=MID
TS2.4DMAData_G_str.SlowADC_Cnt_u16[5]=MIN
TS2.5DMAData_G_str.SlowADC_Cnt_u16[5]=MAX
TS2.6DMAData_G_str.SlowADC_Cnt_u16[5]=MID
TS2.7SysCVSwitchADC_Cnt_u16=MIN
TS2.8SysCVSwitchADC_Cnt_u16=MAX
TS2.9SysCVSwitchADC_Cnt_u16=MID
TS2.10k_ADCVrefScaling_Uls_f32=MIN
TS2.11k_ADCVrefScaling_Uls_f32=MAX
TS2.12k_ADCVrefScaling_Uls_f32=MID
TS2.13k_VrefMax_Volts_f32=MIN
TS2.14k_VrefMax_Volts_f32=MAX
TS2.15k_VrefMax_Volts_f32=MID
TS2.16k_VrefOORDiag_Cnt_str.Threshold=MIN
TS2.17k_VrefOORDiag_Cnt_str.Threshold=MAX
TS2.18k_VrefOORDiag_Cnt_str.Threshold=MID
TS2.19k_VrefOORDiag_Cnt_str.Pstep=MIN
TS2.20k_VrefOORDiag_Cnt_str.Pstep=MAX
TS2.21k_VrefOORDiag_Cnt_str.Pstep=MID
TS2.22k_VrefOORDiag_Cnt_str.Nstep=MIN
TS2.23k_VrefOORDiag_Cnt_str.Nstep=MAX
TS2.24k_VrefOORDiag_Cnt_str.Nstep=MID
TS2.25k_VrefMin_Volts_f32=MIN
TS2.26k_VrefMin_Volts_f32=MAX
TS2.27k_VrefMin_Volts_f32=MID
TS2.28IoHwAb_SlowADCGroupValidity=MIN
TS2.29IoHwAb_SlowADCGroupValidity=MAX
TS2.30k_SlowADCValidDiag_Cnt_str.Threshold=MIN
TS2.31k_SlowADCValidDiag_Cnt_str.Threshold=MAX
TS2.32k_SlowADCValidDiag_Cnt_str.Threshold=MID
TS2.33k_SlowADCValidDiag_Cnt_str.Pstep=MIN
TS2.34k_SlowADCValidDiag_Cnt_str.Pstep=MAX
TS2.35k_SlowADCValidDiag_Cnt_str.Pstep=MID
TS2.36k_SlowADCValidDiag_Cnt_str.Nstep=MIN
TS2.37k_SlowADCValidDiag_Cnt_str.Nstep=MAX
TS2.38k_SlowADCValidDiag_Cnt_str.Nstep=MID
TS2.39All Min
TS2.40All Max

Test Step 2.1 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	5.5999999
Batt_Volt_M_f32	5.5
DMAData_G_str.SlowADC_Cnt_u16[0]	1216
DMAData_G_str.SlowADC_Cnt_u16[1]	1217
DMAData_G_str.SlowADC_Cnt_u16[2]	1218
DMAData_G_str.SlowADC_Cnt_u16[3]	1220

TEST DETAILS REPORT

IoHwAb_ReadADC

2014-12-17, 19:01:03+0530

Name	Input Value
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	0
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	5.80000019
Temperature_Volt_M_f32	0.100000001
Vref_Volt_M_f32	100.099998
k_ADCVrefScaling_Uls_f32	1.10000002
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	0
k_VrefMin_Volts_f32	0
k_VrefOORDiag_Cnt_str.Threshold	0
k_VrefOORDiag_Cnt_str.PStep	0
k_VrefOORDiag_Cnt_str.NStep	0
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.5999999
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.80000019
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.100000001
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.0195303	5.0195303 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.0259504	10.0259495 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	0	0 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	5.00307274	5.00307274 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.48473752	1.48473752 ± 0.00122100122100122	✔
Vref_Volt_M_f32	1.63589752	1.6358974 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.0195303	5.0195303 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.0259504	10.0259495 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.00307274	5.00307274 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.48473752	1.48473752 ± 0.00122100122100122	✔

Test Step 2.2 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	5.80000019
Batt_Volt_M_f32	5.69999981
DMAData_G_str.SlowADC_Cnt_u16[0]	1256
DMAData_G_str.SlowADC_Cnt_u16[1]	1257
DMAData_G_str.SlowADC_Cnt_u16[2]	1258
DMAData_G_str.SlowADC_Cnt_u16[3]	1259
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	65535
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1550
SysCVSwitch_Volt_M_f32	6.19999981
Temperature_Volt_M_f32	0.200000003
Vref_Volt_M_f32	120.199997
k_ADCVrefScaling_Uls_f32	11.3000002
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	65535
k_VrefMax_Volts_f32	0.185000002
k_VrefMin_Volts_f32	0.185000002
k_VrefOORDiag_Cnt_str.Threshold	37
k_VrefOORDiag_Cnt_str.PStep	37
k_VrefOORDiag_Cnt_str.NStep	37
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.80000019
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.69999981
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	6.19999981
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.200000003
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.17999077	5.17999077 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.3554802	10.3554802 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	37	37 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	6.37727261	6.37727213 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.53357756	1.53357756 ± 0.00122100122100122	✔
Vref_Volt_M_f32	17.3570213	17.3570213 ± 0.00009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.17999077	5.17999077 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.3554802	10.3554802 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	6.37727261	6.37727213 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.53357756	1.53357756 ± 0.00122100122100122	✔

Test Step 2.3 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6
Batt_Volt_M_f32	5.9000001
DMAData_G_str.SlowADC_Cnt_u16[0]	1296
DMAData_G_str.SlowADC_Cnt_u16[1]	1297
DMAData_G_str.SlowADC_Cnt_u16[2]	1298
DMAData_G_str.SlowADC_Cnt_u16[3]	1299
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	32767
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1884
SysCVSwitch_Volt_M_f32	6.5999999
Temperature_Volt_M_f32	0.300000012
Vref_Volt_M_f32	140.300003
k_ADCVrefScaling_Uls_f32	21.5
k_SlowADCValidDiag_Cnt_str.Threshold	14040
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	16380
k_VrefMax_Volts_f32	0.370000005
k_VrefMin_Volts_f32	0.370000005
k_VrefOORDiag_Cnt_str.Threshold	74
k_VrefOORDiag_Cnt_str.PStep	74
k_VrefOORDiag_Cnt_str.NStep	74
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6

Name	Input Value
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.9000001
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	6.5999999
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.300000012
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.34456587	5.34456539 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.6850109	10.68501 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	74	74 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	7.75147152	7.75147104 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.58241761	1.58241761 ± 0.00122100122100122	✔
Vref_Volt_M_f32	34.074482	34.074482 ± 0.00009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.34456587	5.34456539 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.6850109	10.68501 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	7.75147152	7.75147104 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.58241761	1.58241761 ± 0.00122100122100122	✔

Test Step 2.4 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6.19999981
Batt_Volt_M_f32	6.0999999
DMAData_G_str.SlowADC_Cnt_u16[0]	1216
DMAData_G_str.SlowADC_Cnt_u16[1]	1216
DMAData_G_str.SlowADC_Cnt_u16[2]	1216
DMAData_G_str.SlowADC_Cnt_u16[3]	1216
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	0
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2218
SysCVSwitch_Volt_M_f32	7
Temperature_Volt_M_f32	0.400000006
Vref_Volt_M_f32	160.399994
k_ADCVrefScaling_Uls_f32	31.7000008
k_SlowADCValidDiag_Cnt_str.Threshold	16380
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	18720
k_VrefMax_Volts_f32	0.555000007
k_VrefMin_Volts_f32	0.555000007
k_VrefOORDiag_Cnt_str.Threshold	111
k_VrefOORDiag_Cnt_str.PStep	111
k_VrefOORDiag_Cnt_str.NStep	111
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.19999981
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.0999999
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	7
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.400000006
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.00307274	5.00307274 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.0177116	10.0177116 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	111	111 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	9.12567139	9.12567043 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.48473752	1.48473752 ± 0.00122100122100122	✔
Vref_Volt_M_f32	47.0661812	47.0661774 ± 0.00009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.00307274	5.00307274 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.0177116	10.0177116 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	9.12567139	9.12567043 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.48473752	1.48473752 ± 0.00122100122100122	✔

Test Step 2.5 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6.4000001
Batt_Volt_M_f32	6.30000019
DMAData_G_str.SlowADC_Cnt_u16[0]	3762
DMAData_G_str.SlowADC_Cnt_u16[1]	3762
DMAData_G_str.SlowADC_Cnt_u16[2]	3762
DMAData_G_str.SlowADC_Cnt_u16[3]	3762
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	2340
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2552
SysCVSwitch_Volt_M_f32	7.4000001
Temperature_Volt_M_f32	0.5
Vref_Volt_M_f32	180.5
k_ADCVrefScaling_Uls_f32	41.9000015
k_SlowADCValidDiag_Cnt_str.Threshold	18720
k_SlowADCValidDiag_Cnt_str.PStep	32767
k_SlowADCValidDiag_Cnt_str.NStep	21060
k_VrefMax_Volts_f32	0.74000001
k_VrefMin_Volts_f32	0.74000001
k_VrefOORDiag_Cnt_str.Threshold	148
k_VrefOORDiag_Cnt_str.PStep	148
k_VrefOORDiag_Cnt_str.NStep	148
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.4000001
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.30000019
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	7.4000001
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.5
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	15.4782562	15.4782562 ± 0.00732600732600733	✔
Batt_Volt_M_f32	30.9922962	30.9922943 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	148	148 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	10.4998703	10.4998693 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	4.59340668	4.59340668 ± 0.00122100122100122	✔
Vref_Volt_M_f32	192.463745	192.46373 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	15.4782562	15.4782562 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	30.9922962	30.9922943 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	10.4998703	10.4998693 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	4.59340668	4.59340668 ± 0.00122100122100122	✔

Test Step 2.6 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6.5999999
Batt_Volt_M_f32	6.5
DMAData_G_str.SlowADC_Cnt_u16[0]	2489
DMAData_G_str.SlowADC_Cnt_u16[1]	2489
DMAData_G_str.SlowADC_Cnt_u16[2]	2489
DMAData_G_str.SlowADC_Cnt_u16[3]	2489
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	4680
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2786
SysCVSwitch_Volt_M_f32	7.80000019
Temperature_Volt_M_f32	0.600000024
Vref_Volt_M_f32	200.600006
k_ADCVrefScaling_Uls_f32	52.0999985
k_SlowADCValidDiag_Cnt_str.Threshold	21060
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	200
k_VrefMax_Volts_f32	0.925000012
k_VrefMin_Volts_f32	0.925000012
k_VrefOORDiag_Cnt_str.Threshold	185
k_VrefOORDiag_Cnt_str.PStep	185

Name	Input Value
k_VrefOORDiag_Cnt_str.NStep	185
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.5999999
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	7.80000019
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.600000024
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	10.2406645	10.2406645 ± 0.00732600732600733	✔
Batt_Volt_M_f32	20.505003	20.505003 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	185	185 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	11.4626331	11.4626322 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.03907204	3.03907204 ± 0.00122100122100122	✔
Vref_Volt_M_f32	158.335648	158.335648 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10.2406645	10.2406645 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	20.505003	20.505003 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	11.4626331	11.4626322 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.03907204	3.03907204 ± 0.00122100122100122	✔

Test Step 2.7 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6.80000019
Batt_Volt_M_f32	6.69999981
DMAData_G_str.SlowADC_Cnt_u16[0]	1306
DMAData_G_str.SlowADC_Cnt_u16[1]	1307
DMAData_G_str.SlowADC_Cnt_u16[2]	1308
DMAData_G_str.SlowADC_Cnt_u16[3]	1309
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	7020
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	8.19999981
Temperature_Volt_M_f32	0.699999988
Vref_Volt_M_f32	220.699997
k_ADCVrefScaling_Uls_f32	62.2999992
k_SlowADCValidDiag_Cnt_str.Threshold	23400
k_SlowADCValidDiag_Cnt_str.PStep	2340
k_SlowADCValidDiag_Cnt_str.NStep	25740
k_VrefMax_Volts_f32	1.11000001
k_VrefMin_Volts_f32	1.11000001
k_VrefOORDiag_Cnt_str.Threshold	222
k_VrefOORDiag_Cnt_str.PStep	222
k_VrefOORDiag_Cnt_str.NStep	222
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.80000019
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.69999981
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	8.19999981
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.699999988
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.38570929	5.38570929 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.7673931	10.7673922 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	222	222 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	5.00307274	5.00307274 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.59462762	1.59462762 ± 0.00122100122100122	✔
Vref_Volt_M_f32	99.4974365	99.4974365 ± 0.00009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.38570929	5.38570929 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.7673931	10.7673922 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.00307274	5.00307274 ± 0.00488400488400488	✔
			✔

Name	Actual Value	Expected Value	Result
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.59462762	1.59462762 ± 0.0012100122100122	

Test Step 2.8 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	7
Batt_Volt_M_f32	6.9000001
DMAData_G_str.SlowADC_Cnt_u16[0]	1496
DMAData_G_str.SlowADC_Cnt_u16[1]	1497
DMAData_G_str.SlowADC_Cnt_u16[2]	1498
DMAData_G_str.SlowADC_Cnt_u16[3]	1499
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	9360
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	4095
SysCVSwitch_Volt_M_f32	8.60000038
Temperature_Volt_M_f32	0.800000012
Vref_Volt_M_f32	240.800003
k_ADCVrefScaling_Uls_f32	72.5
k_SlowADCValidDiag_Cnt_str.Threshold	25740
k_SlowADCValidDiag_Cnt_str.PStep	4680
k_SlowADCValidDiag_Cnt_str.NStep	42120
k_VrefMax_Volts_f32	1.29499996
k_VrefMin_Volts_f32	1.29499996
k_VrefOORDiag_Cnt_str.Threshold	259
k_VrefOORDiag_Cnt_str.PStep	259
k_VrefOORDiag_Cnt_str.NStep	259
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	7
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.9000001
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	8.60000038
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.800000012
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	6.16743946	6.16743898 ± 0.00732600732600733	✔
Batt_Volt_M_f32	12.3326607	12.3326597 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	259	259 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	16.848341	16.848341 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.82661784	1.82661784 ± 0.0012100122100122	✔
Vref_Volt_M_f32	132.606842	132.606842 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.16743946	6.16743898 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	12.3326607	12.3326597 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	16.848341	16.848341 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.82661784	1.82661784 ± 0.0012100122100122	✔

Test Step 2.9 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	7.19999981
Batt_Volt_M_f32	7.0999999
DMAData_G_str.SlowADC_Cnt_u16[0]	1686
DMAData_G_str.SlowADC_Cnt_u16[1]	1687
DMAData_G_str.SlowADC_Cnt_u16[2]	1688
DMAData_G_str.SlowADC_Cnt_u16[3]	1689
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	11700
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2655
SysCVSwitch_Volt_M_f32	9
Temperature_Volt_M_f32	0.899999976
Vref_Volt_M_f32	260.899994
k_ADCVrefScaling_Uls_f32	82.6999969
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	7020
k_SlowADCValidDiag_Cnt_str.NStep	44460
k_VrefMax_Volts_f32	1.48000002

Name	Input Value
k_VrefMin_Volts_f32	1.48000002
k_VrefOORDiag_Cnt_str.Threshold	296
k_VrefOORDiag_Cnt_str.PStep	296
k_VrefOORDiag_Cnt_str.NStep	296
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	7.19999981
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	7.0999999
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	9
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.899999976
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	6.94916964	6.94916916 ± 0.00732600732600733	✔
Batt_Volt_M_f32	13.8979282	13.8979273 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	296	296 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	10.9236498	10.9236498 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.05860806	2.05860806 ± 0.00122100122100122	✔
Vref_Volt_M_f32	170.448837	170.448837 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.94916964	6.94916916 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	13.8979282	13.8979273 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	10.9236498	10.9236498 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.05860806	2.05860806 ± 0.00122100122100122	✔

Test Step 2.10 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	7.4000001
Batt_Volt_M_f32	7.30000019
DMAData_G_str.SlowADC_Cnt_u16[0]	1876
DMAData_G_str.SlowADC_Cnt_u16[1]	1877
DMAData_G_str.SlowADC_Cnt_u16[2]	1878
DMAData_G_str.SlowADC_Cnt_u16[3]	1879
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	14040
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2552
SysCVSwitch_Volt_M_f32	9.39999962
Temperature_Volt_M_f32	1
Vref_Volt_M_f32	281
k_ADCVrefScaling_UIs_f32	1
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	9360
k_SlowADCValidDiag_Cnt_str.NStep	9360
k_VrefMax_Volts_f32	1.66499996
k_VrefMin_Volts_f32	1.66499996
k_VrefOORDiag_Cnt_str.Threshold	333
k_VrefOORDiag_Cnt_str.PStep	333
k_VrefOORDiag_Cnt_str.NStep	333
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	7.4000001
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	7.30000019
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	9.39999962
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	7.73089981	7.73089933 ± 0.00732600732600733	✔
Batt_Volt_M_f32	15.4631948	15.4631948 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	333	333 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	10.4998703	10.4998693 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.29059839	2.29059839 ± 0.00122100122100122	✔
Vref_Volt_M_f32	2.29304028	2.29304028 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	7.73089981	7.73089933 ± 0.00732600732600733	✔

Name	Actual Value	Expected Value	Result
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	15.4631948	15.4631948 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	10.4998703	10.4998693 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.29059839	2.29059839 ± 0.00122100122100122	✔

Test Step 2.11 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	7.5999999
Batt_Volt_M_f32	7.5
DMAData_G_str.SlowADC_Cnt_u16[0]	2066
DMAData_G_str.SlowADC_Cnt_u16[1]	2067
DMAData_G_str.SlowADC_Cnt_u16[2]	2068
DMAData_G_str.SlowADC_Cnt_u16[3]	2069
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	16380
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2786
SysCVSwitch_Volt_M_f32	9.80000019
Temperature_Volt_M_f32	1.10000002
Vref_Volt_M_f32	301.100006
k_ADCVrefScaling_Uls_f32	100
k_SlowADCValidDiag_Cnt_str.Threshold	32767
k_SlowADCValidDiag_Cnt_str.PStep	11700
k_SlowADCValidDiag_Cnt_str.NStep	11700
k_VrefMax_Volts_f32	1.85000002
k_VrefMin_Volts_f32	1.85000002
k_VrefOORDiag_Cnt_str.Threshold	370
k_VrefOORDiag_Cnt_str.PStep	370
k_VrefOORDiag_Cnt_str.NStep	370
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	7.5999999
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	7.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	9.80000019
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.10000002
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	8.51262951	8.51262951 ± 0.00732600732600733	✔
Batt_Volt_M_f32	17.0284634	17.0284615 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	370	370 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	11.4626331	11.4626322 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.52258873	2.52258849 ± 0.00122100122100122	✔
Vref_Volt_M_f32	252.503067	252.503052 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	8.51262951	8.51262951 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	17.0284634	17.0284615 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	11.4626331	11.4626322 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.52258873	2.52258849 ± 0.00122100122100122	✔

Test Step 2.12 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	7.80000019
Batt_Volt_M_f32	7.69999981
DMAData_G_str.SlowADC_Cnt_u16[0]	2256
DMAData_G_str.SlowADC_Cnt_u16[1]	2257
DMAData_G_str.SlowADC_Cnt_u16[2]	2258
DMAData_G_str.SlowADC_Cnt_u16[3]	2259
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	18720
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	3020
SysCVSwitch_Volt_M_f32	10.1999998
Temperature_Volt_M_f32	1.20000005
Vref_Volt_M_f32	321.200012
k_ADCVrefScaling_Uls_f32	50.5
k_SlowADCValidDiag_Cnt_str.Threshold	49140
k_SlowADCValidDiag_Cnt_str.PStep	0

Name	Input Value
k_SlowADCValidDiag_Cnt_str.NStep	14040
k_VrefMax_Volts_f32	2.03500009
k_VrefMin_Volts_f32	2.03500009
k_VrefOORDiag_Cnt_str.Threshold	407
k_VrefOORDiag_Cnt_str.PStep	407
k_VrefOORDiag_Cnt_str.NStep	407
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	7.80000019
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	7.69999981
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	10.1999998
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.20000005
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	9.29436016	9.29435921 ± 0.00732600732600733	✔
Batt_Volt_M_f32	18.593729	18.593729 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	407	407 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	12.425395	12.4253941 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.75457883	2.75457883 ± 0.00122100122100122	✔
Vref_Volt_M_f32	139.229553	139.229553 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	9.29436016	9.29435921 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	18.593729	18.593729 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	12.425395	12.4253941 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.75457883	2.75457883 ± 0.00122100122100122	✔

Test Step 2.13 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	8
Batt_Volt_M_f32	7.9000001
DMAData_G_str.SlowADC_Cnt_u16[0]	2446
DMAData_G_str.SlowADC_Cnt_u16[1]	2447
DMAData_G_str.SlowADC_Cnt_u16[2]	2448
DMAData_G_str.SlowADC_Cnt_u16[3]	2449
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	21060
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	3254
SysCVSwitch_Volt_M_f32	10.6000004
Temperature_Volt_M_f32	1.29999995
Vref_Volt_M_f32	341.299988
k_ADCVrefScaling_Uls_f32	2.29999995
k_SlowADCValidDiag_Cnt_str.Threshold	51480
k_SlowADCValidDiag_Cnt_str.PStep	535
k_SlowADCValidDiag_Cnt_str.NStep	16380
k_VrefMax_Volts_f32	0
k_VrefMin_Volts_f32	2.22000003
k_VrefOORDiag_Cnt_str.Threshold	444
k_VrefOORDiag_Cnt_str.PStep	444
k_VrefOORDiag_Cnt_str.NStep	444
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	8
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	7.9000001
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	10.6000004
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.29999995
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	10.0760899	10.0760899 ± 0.00732600732600733	✔
Batt_Volt_M_f32	20.1589985	20.1589966 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	444	444 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	13.3881569	13.3881569 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.98656917	2.98656893 ± 0.00122100122100122	✔

Name	Actual Value	Expected Value	Result
Vref_Volt_M_f32	6.87472534	6.87472534 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10.0760899	10.0760899 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	20.1589985	20.1589966 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	13.3881569	13.3881569 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.98656917	2.98656893 ± 0.00122100122100122	✔

Test Step 2.14 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	8.19999981
Batt_Volt_M_f32	8.10000038
DMAData_G_str.SlowADC_Cnt_u16[0]	2636
DMAData_G_str.SlowADC_Cnt_u16[1]	2637
DMAData_G_str.SlowADC_Cnt_u16[2]	2638
DMAData_G_str.SlowADC_Cnt_u16[3]	2639
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	23400
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	3488
SysCVSwitch_Volt_M_f32	11
Temperature_Volt_M_f32	1.39999998
Vref_Volt_M_f32	361.399994
k_ADCVrefScaling_Uls_f32	12.5
k_SlowADCValidDiag_Cnt_str.Threshold	53820
k_SlowADCValidDiag_Cnt_str.PStep	367
k_SlowADCValidDiag_Cnt_str.NStep	18720
k_VrefMax_Volts_f32	5
k_VrefMin_Volts_f32	2.40499997
k_VrefOORDiag_Cnt_str.Threshold	481
k_VrefOORDiag_Cnt_str.PStep	481
k_VrefOORDiag_Cnt_str.NStep	481
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	8.19999981
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	8.10000038
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	11
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.39999998
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	10.8578205	10.8578196 ± 0.00732600732600733	✔
Batt_Volt_M_f32	21.7242661	21.7242641 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	481	481 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	14.3509197	14.3509188 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.21855927	3.21855927 ± 0.00122100122100122	✔
Vref_Volt_M_f32	40.262516	40.262516 ± 0.00009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10.8578205	10.8578196 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	21.7242661	21.7242641 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	14.3509197	14.3509188 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.21855927	3.21855927 ± 0.00122100122100122	✔

Test Step 2.15 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	8.39999962
Batt_Volt_M_f32	8.30000019
DMAData_G_str.SlowADC_Cnt_u16[0]	2826
DMAData_G_str.SlowADC_Cnt_u16[1]	2827
DMAData_G_str.SlowADC_Cnt_u16[2]	2828
DMAData_G_str.SlowADC_Cnt_u16[3]	2829
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	25740
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	3722
SysCVSwitch_Volt_M_f32	11.3999996
Temperature_Volt_M_f32	1.5
Vref_Volt_M_f32	381.5
k_ADCVrefScaling_Uls_f32	22.7000008

Name	Input Value
k_SlowADCValidDiag_Cnt_str.Threshold	56160
k_SlowADCValidDiag_Cnt_str.PStep	21060
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	2.5
k_VrefMin_Volts_f32	2.58999991
k_VrefOORDiag_Cnt_str.Threshold	518
k_VrefOORDiag_Cnt_str.PStep	518
k_VrefOORDiag_Cnt_str.NStep	518
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	8.39999962
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	8.30000019
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	11.3999996
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.5
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	11.6395512	11.6395502 ± 0.00732600732600733	✔
Batt_Volt_M_f32	23.2895336	23.2895317 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	518	518 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	15.3136816	15.3136816 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.4505496	3.45054936 ± 0.00122100122100122	✔
Vref_Volt_M_f32	78.3829117	78.3829041 ± 0.00009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	11.6395512	11.6395502 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	23.2895336	23.2895317 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	15.3136816	15.3136816 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.4505496	3.45054936 ± 0.00122100122100122	✔

Test Step 2.16 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	8.60000038
Batt_Volt_M_f32	8.5
DMAData_G_str.SlowADC_Cnt_u16[0]	3016
DMAData_G_str.SlowADC_Cnt_u16[1]	3017
DMAData_G_str.SlowADC_Cnt_u16[2]	3018
DMAData_G_str.SlowADC_Cnt_u16[3]	3019
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	28080
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	3956
SysCVSwitch_Volt_M_f32	11.8000002
Temperature_Volt_M_f32	1.60000002
Vref_Volt_M_f32	401.600006
k_ADCVrefScaling_Uls_f32	32.9000015
k_SlowADCValidDiag_Cnt_str.Threshold	65
k_SlowADCValidDiag_Cnt_str.PStep	23400
k_SlowADCValidDiag_Cnt_str.NStep	35
k_VrefMax_Volts_f32	1.85000002
k_VrefMin_Volts_f32	2.7750001
k_VrefOORDiag_Cnt_str.Threshold	0
k_VrefOORDiag_Cnt_str.PStep	555
k_VrefOORDiag_Cnt_str.NStep	555
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	8.60000038
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	8.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	11.8000002
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.60000002
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	12.4212809	12.4212799 ± 0.00732600732600733	✔
Batt_Volt_M_f32	24.8548012	24.8547993 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	0	0 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔

Name	Actual Value	Expected Value	Result
SysCVSwitch_Volt_M_f32	16.2764435	16.2764435 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.6825397	3.6825397 ± 0.00122100122100122	✔
Vref_Volt_M_f32	121.235909	121.235901 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	12.4212809	12.4212799 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	24.8548012	24.8547993 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	16.2764435	16.2764435 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.6825397	3.6825397 ± 0.00122100122100122	✔

Test Step 2.17 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	8.80000019
Batt_Volt_M_f32	8.69999981
DMAData_G_str.SlowADC_Cnt_u16[0]	3206
DMAData_G_str.SlowADC_Cnt_u16[1]	3207
DMAData_G_str.SlowADC_Cnt_u16[2]	3208
DMAData_G_str.SlowADC_Cnt_u16[3]	3209
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	30420
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	12.1999998
Temperature_Volt_M_f32	1.70000005
Vref_Volt_M_f32	421.700012
k_ADCVrefScaling_Uls_f32	43.0999985
k_SlowADCValidDiag_Cnt_str.Threshold	11700
k_SlowADCValidDiag_Cnt_str.PStep	25740
k_SlowADCValidDiag_Cnt_str.NStep	32767
k_VrefMax_Volts_f32	2.03500009
k_VrefMin_Volts_f32	2.96000004
k_VrefOORDiag_Cnt_str.Threshold	1000
k_VrefOORDiag_Cnt_str.PStep	592
k_VrefOORDiag_Cnt_str.NStep	592
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	8.80000019
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	8.69999981
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	12.1999998
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.70000005
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	13.2030106	13.2030106 ± 0.00732600732600733	✔
Batt_Volt_M_f32	26.4200668	26.4200668 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	1000	1000 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	5.00307274	5.00307274 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.91453004	3.9145298 ± 0.00122100122100122	✔
Vref_Volt_M_f32	168.821487	168.821487 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	13.2030106	13.2030106 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	26.4200668	26.4200668 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.00307274	5.00307274 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.91453004	3.9145298 ± 0.00122100122100122	✔

Test Step 2.18 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	9
Batt_Volt_M_f32	8.89999962
DMAData_G_str.SlowADC_Cnt_u16[0]	3396
DMAData_G_str.SlowADC_Cnt_u16[1]	3397
DMAData_G_str.SlowADC_Cnt_u16[2]	3398
DMAData_G_str.SlowADC_Cnt_u16[3]	3399
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	32760
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1350
SysCVSwitch_Volt_M_f32	12.6000004
Temperature_Volt_M_f32	1.79999995

Name	Input Value
Vref_Volt_M_f32	441.799988
k_ADCVrefScaling_Uls_f32	53.2999992
k_SlowADCValidDiag_Cnt_str.Threshold	14040
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	16380
k_VrefMax_Volts_f32	2.22000003
k_VrefMin_Volts_f32	3.14499998
k_VrefOORDiag_Cnt_str.Threshold	500
k_VrefOORDiag_Cnt_str.PStep	629
k_VrefOORDiag_Cnt_str.NStep	629
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	9
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	8.89999962
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	12.6000004
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.79999995
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	13.9847403	13.9847403 ± 0.00732600732600733	✔
Batt_Volt_M_f32	27.9853363	27.9853344 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	500	500 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	5.55439806	5.55439806 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	4.14652014	4.14652014 ± 0.00122100122100122	✔
Vref_Volt_M_f32	221.139694	221.139679 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	13.9847403	13.9847403 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	27.9853363	27.9853344 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.55439806	5.55439806 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	4.14652014	4.14652014 ± 0.00122100122100122	✔

Test Step 2.19 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	9.19999981
Batt_Volt_M_f32	9.10000038
DMAData_G_str.SlowADC_Cnt_u16[0]	3586
DMAData_G_str.SlowADC_Cnt_u16[1]	3587
DMAData_G_str.SlowADC_Cnt_u16[2]	3588
DMAData_G_str.SlowADC_Cnt_u16[3]	3589
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	35100
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1484
SysCVSwitch_Volt_M_f32	13
Temperature_Volt_M_f32	1.89999998
Vref_Volt_M_f32	461.899994
k_ADCVrefScaling_Uls_f32	63.5
k_SlowADCValidDiag_Cnt_str.Threshold	16380
k_SlowADCValidDiag_Cnt_str.PStep	35
k_SlowADCValidDiag_Cnt_str.NStep	18720
k_VrefMax_Volts_f32	2.40499997
k_VrefMin_Volts_f32	3.32999992
k_VrefOORDiag_Cnt_str.Threshold	481
k_VrefOORDiag_Cnt_str.PStep	0
k_VrefOORDiag_Cnt_str.NStep	666
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	9.19999981
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	9.10000038
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	13
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.89999998
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	14.7664709	14.7664709 ± 0.00732600732600733	✔
Batt_Volt_M_f32	29.5506039	29.550602 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	481	481 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔

Name	Actual Value	Expected Value	Result
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	6.10572386	6.10572386 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	4.37851048	4.37851048 ± 0.00122100122100122	✔
Vref_Volt_M_f32	278.19046	278.190491 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	14.7664709	14.7664709 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	29.5506039	29.550602 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	6.10572386	6.10572386 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	4.37851048	4.37851048 ± 0.00122100122100122	✔

Test Step 2.20 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	9.39999962
Batt_Volt_M_f32	9.30000019
DMAData_G_str.SlowADC_Cnt_u16[0]	1306
DMAData_G_str.SlowADC_Cnt_u16[1]	1307
DMAData_G_str.SlowADC_Cnt_u16[2]	1308
DMAData_G_str.SlowADC_Cnt_u16[3]	1309
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	37440
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1618
SysCVSwitch_Volt_M_f32	13.3999996
Temperature_Volt_M_f32	2
Vref_Volt_M_f32	482
k_ADCVrefScaling_Uls_f32	73.6999969
k_SlowADCValidDiag_Cnt_str.Threshold	18720
k_SlowADCValidDiag_Cnt_str.PStep	32767
k_SlowADCValidDiag_Cnt_str.NStep	21060
k_VrefMax_Volts_f32	2.58999991
k_VrefMin_Volts_f32	3.5150001
k_VrefOORDiag_Cnt_str.Threshold	518
k_VrefOORDiag_Cnt_str.PStep	1000
k_VrefOORDiag_Cnt_str.NStep	703
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	9.39999962
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	9.30000019
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	13.3999996
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.38570929	5.38570929 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.7673931	10.7673922 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	518	518 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	6.65704966	6.65704918 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.59462762	1.59462762 ± 0.00122100122100122	✔
Vref_Volt_M_f32	117.704025	117.704033 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.38570929	5.38570929 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.7673931	10.7673922 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	6.65704966	6.65704918 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.59462762	1.59462762 ± 0.00122100122100122	✔

Test Step 2.21 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	9.60000038
Batt_Volt_M_f32	9.5
DMAData_G_str.SlowADC_Cnt_u16[0]	1496
DMAData_G_str.SlowADC_Cnt_u16[1]	1497
DMAData_G_str.SlowADC_Cnt_u16[2]	1498
DMAData_G_str.SlowADC_Cnt_u16[3]	1499
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	39780
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1752

Name	Input Value
SysCVSwitch_Volt_M_f32	13.8000002
Temperature_Volt_M_f32	2.0999999
Vref_Volt_M_f32	140.199997
k_ADCVrefScaling_Uls_f32	83.9000015
k_SlowADCValidDiag_Cnt_str.Threshold	21060
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	23400
k_VrefMax_Volts_f32	2.7750001
k_VrefMin_Volts_f32	3.70000005
k_VrefOORDiag_Cnt_str.Threshold	555
k_VrefOORDiag_Cnt_str.PStep	500
k_VrefOORDiag_Cnt_str.NStep	740
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	9.60000038
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	9.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	13.8000002
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.0999999
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	6.16743946	6.16743898 ± 0.00732600732600733	✔
Batt_Volt_M_f32	12.3326607	12.3326597 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	555	555 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	7.20837498	7.2083745 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.82661784	1.82661784 ± 0.00122100122100122	✔
Vref_Volt_M_f32	153.45813	153.458115 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.16743946	6.16743898 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	12.3326607	12.3326597 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	7.20837498	7.2083745 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.82661784	1.82661784 ± 0.00122100122100122	✔

Test Step 2.22 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	9.80000019
Batt_Volt_M_f32	9.69999981
DMAData_G_str.SlowADC_Cnt_u16[0]	1686
DMAData_G_str.SlowADC_Cnt_u16[1]	1687
DMAData_G_str.SlowADC_Cnt_u16[2]	1688
DMAData_G_str.SlowADC_Cnt_u16[3]	1689
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	42120
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1886
SysCVSwitch_Volt_M_f32	14.1999998
Temperature_Volt_M_f32	2.20000005
Vref_Volt_M_f32	185.300003
k_ADCVrefScaling_Uls_f32	94.0999985
k_SlowADCValidDiag_Cnt_str.Threshold	23400
k_SlowADCValidDiag_Cnt_str.PStep	2340
k_SlowADCValidDiag_Cnt_str.NStep	25740
k_VrefMax_Volts_f32	2.96000004
k_VrefMin_Volts_f32	3.88499999
k_VrefOORDiag_Cnt_str.Threshold	592
k_VrefOORDiag_Cnt_str.PStep	592
k_VrefOORDiag_Cnt_str.NStep	0
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	9.80000019
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	9.69999981
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	14.1999998
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.20000005
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	6.94916964	6.94916916 ± 0.00732600732600733	✔
Batt_Volt_M_f32	13.8979282	13.8979273 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔

Name	Actual Value	Expected Value	Result
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	592	592 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	7.75969982	7.75969982 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.05860806	2.05860806 ± 0.00122100122100122	✔
Vref_Volt_M_f32	193.944824	193.944809 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.94916964	6.94916916 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	13.8979282	13.8979273 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	7.75969982	7.75969982 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.05860806	2.05860806 ± 0.00122100122100122	✔

Test Step 2.23 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	10
Batt_Volt_M_f32	9.89999962
DMAData_G_str.SlowADC_Cnt_u16[0]	1876
DMAData_G_str.SlowADC_Cnt_u16[1]	1877
DMAData_G_str.SlowADC_Cnt_u16[2]	1878
DMAData_G_str.SlowADC_Cnt_u16[3]	1879
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	44460
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2020
SysCVSwitch_Volt_M_f32	14.6000004
Temperature_Volt_M_f32	2.29999995
Vref_Volt_M_f32	230.399994
k_ADCVrefScaling_Uls_f32	3.5999999
k_SlowADCValidDiag_Cnt_str.Threshold	25740
k_SlowADCValidDiag_Cnt_str.PStep	4680
k_SlowADCValidDiag_Cnt_str.NStep	42120
k_VrefMax_Volts_f32	3.14499998
k_VrefMin_Volts_f32	4.07000017
k_VrefOORDiag_Cnt_str.Threshold	629
k_VrefOORDiag_Cnt_str.PStep	629
k_VrefOORDiag_Cnt_str.NStep	1000
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	9.89999962
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	14.6000004
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.29999995
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	7.73089981	7.73089933 ± 0.00732600732600733	✔
Batt_Volt_M_f32	15.4631948	15.4631948 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	629	629 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	8.31102562	8.31102562 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.29059839	2.29059839 ± 0.00122100122100122	✔
Vref_Volt_M_f32	8.2549448	8.2549448 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	7.73089981	7.73089933 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	15.4631948	15.4631948 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	8.31102562	8.31102562 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.29059839	2.29059839 ± 0.00122100122100122	✔

Test Step 2.24 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	10.1999998
Batt_Volt_M_f32	10.1000004
DMAData_G_str.SlowADC_Cnt_u16[0]	2066
DMAData_G_str.SlowADC_Cnt_u16[1]	2067
DMAData_G_str.SlowADC_Cnt_u16[2]	2068
DMAData_G_str.SlowADC_Cnt_u16[3]	2069
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	46800

Name	Input Value
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2154
SysCVSwitch_Volt_M_f32	15
Temperature_Volt_M_f32	2.4000001
Vref_Volt_M_f32	275.5
k_ADCVrefScaling_Uls_f32	16.8999996
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	70
k_SlowADCValidDiag_Cnt_str.NStep	44460
k_VrefMax_Volts_f32	3.32999992
k_VrefMin_Volts_f32	4.25500011
k_VrefOORDiag_Cnt_str.Threshold	666
k_VrefOORDiag_Cnt_str.PStep	666
k_VrefOORDiag_Cnt_str.NStep	500
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10.1999998
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.1000004
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	15
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.4000001
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	8.51262951	8.51262951 ± 0.00732600732600733	✔
Batt_Volt_M_f32	17.0284634	17.0284615 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	666	666 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	8.86235142	8.86235046 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.52258873	2.52258849 ± 0.00122100122100122	✔
Vref_Volt_M_f32	42.6730156	42.6730156 ± 0.00009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	8.51262951	8.51262951 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	17.0284634	17.0284615 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	8.86235142	8.86235046 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.52258873	2.52258849 ± 0.00122100122100122	✔

Test Step 2.25 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	10.3999996
Batt_Volt_M_f32	10.3000002
DMAData_G_str.SlowADC_Cnt_u16[0]	2256
DMAData_G_str.SlowADC_Cnt_u16[1]	2257
DMAData_G_str.SlowADC_Cnt_u16[2]	2258
DMAData_G_str.SlowADC_Cnt_u16[3]	2259
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	49140
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2288
SysCVSwitch_Volt_M_f32	15.3999996
Temperature_Volt_M_f32	2.5
Vref_Volt_M_f32	320.600006
k_ADCVrefScaling_Uls_f32	30.2000008
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	9360
k_SlowADCValidDiag_Cnt_str.NStep	9360
k_VrefMax_Volts_f32	3.5150001
k_VrefMin_Volts_f32	0
k_VrefOORDiag_Cnt_str.Threshold	703
k_VrefOORDiag_Cnt_str.PStep	703
k_VrefOORDiag_Cnt_str.NStep	703
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10.3999996
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.3000002
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	15.3999996
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.5
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	9.29436016	9.29435921 ± 0.00732600732600733	✔

Name	Actual Value	Expected Value	Result
Batt_Volt_M_f32	18.593729	18.593729 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	703	703 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	9.41367626	9.41367626 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.75457883	2.75457883 ± 0.00122100122100122	✔
Vref_Volt_M_f32	83.2620316	83.2620239 ± 0.00009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	9.29436016	9.29435921 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	18.593729	18.593729 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	9.41367626	9.41367626 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.75457883	2.75457883 ± 0.00122100122100122	✔

Test Step 2.26 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	10.6000004
Batt_Volt_M_f32	10.5
DMAData_G_str.SlowADC_Cnt_u16[0]	2446
DMAData_G_str.SlowADC_Cnt_u16[1]	2447
DMAData_G_str.SlowADC_Cnt_u16[2]	2448
DMAData_G_str.SlowADC_Cnt_u16[3]	2449
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	51480
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2422
SysCVSwitch_Volt_M_f32	15.8000002
Temperature_Volt_M_f32	2.5999999
Vref_Volt_M_f32	365.700012
k_ADCVrefScaling_Uls_f32	43.5
k_SlowADCValidDiag_Cnt_str.Threshold	32767
k_SlowADCValidDiag_Cnt_str.PStep	100
k_SlowADCValidDiag_Cnt_str.NStep	11700
k_VrefMax_Volts_f32	3.70000005
k_VrefMin_Volts_f32	5
k_VrefOORDiag_Cnt_str.Threshold	740
k_VrefOORDiag_Cnt_str.PStep	740
k_VrefOORDiag_Cnt_str.NStep	740
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10.6000004
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	15.8000002
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.5999999
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	10.0760899	10.0760899 ± 0.00732600732600733	✔
Batt_Volt_M_f32	20.1589985	20.1589966 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	740	740 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	9.96500206	9.96500206 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.98656917	2.98656893 ± 0.00122100122100122	✔
Vref_Volt_M_f32	130.021988	130.021973 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10.0760899	10.0760899 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	20.1589985	20.1589966 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	9.96500206	9.96500206 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.98656917	2.98656893 ± 0.00122100122100122	✔

Test Step 2.27 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	10.8000002
Batt_Volt_M_f32	10.6999998
DMAData_G_str.SlowADC_Cnt_u16[0]	2636
DMAData_G_str.SlowADC_Cnt_u16[1]	2637
DMAData_G_str.SlowADC_Cnt_u16[2]	2638

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[3]	2639
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	53820
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2556
SysCVSwitch_Volt_M_f32	16.2000008
Temperature_Volt_M_f32	2.70000005
Vref_Volt_M_f32	410.799988
k_ADCVrefScaling_Uls_f32	56.7999992
k_SlowADCValidDiag_Cnt_str.Threshold	49140
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	14040
k_VrefMax_Volts_f32	3.88499999
k_VrefMin_Volts_f32	2.5
k_VrefOORDiag_Cnt_str.Threshold	777
k_VrefOORDiag_Cnt_str.PStep	777
k_VrefOORDiag_Cnt_str.NStep	777
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10.8000002
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.6999998
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	16.2000008
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.70000005
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	10.8578205	10.8578196 ± 0.00732600732600733	✔
Batt_Volt_M_f32	21.7242661	21.7242641 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	777	777 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	10.5163279	10.5163269 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.21855927	3.21855927 ± 0.00122100122100122	✔
Vref_Volt_M_f32	182.952881	182.952866 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10.8578205	10.8578196 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	21.7242661	21.7242641 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	10.5163279	10.5163269 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.21855927	3.21855927 ± 0.00122100122100122	✔

Test Step 2.28 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	11
Batt_Volt_M_f32	10.8999996
DMAData_G_str.SlowADC_Cnt_u16[0]	2826
DMAData_G_str.SlowADC_Cnt_u16[1]	2827
DMAData_G_str.SlowADC_Cnt_u16[2]	2828
DMAData_G_str.SlowADC_Cnt_u16[3]	2829
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	56160
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2690
SysCVSwitch_Volt_M_f32	16.6000004
Temperature_Volt_M_f32	2.79999995
Vref_Volt_M_f32	455.899994
k_ADCVrefScaling_Uls_f32	70.0999985
k_SlowADCValidDiag_Cnt_str.Threshold	51480
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	16380
k_VrefMax_Volts_f32	4.07000017
k_VrefMin_Volts_f32	4.07000017
k_VrefOORDiag_Cnt_str.Threshold	814
k_VrefOORDiag_Cnt_str.PStep	814
k_VrefOORDiag_Cnt_str.NStep	814
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	11
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.8999996
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	16.6000004
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.79999995
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	11.6395512	11.6395502 ± 0.00732600732600733	✔
Batt_Volt_M_f32	23.2895336	23.2895317 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	814	814 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	11.0676537	11.0676527 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.4505496	3.45054936 ± 0.00122100122100122	✔
Vref_Volt_M_f32	242.054703	242.054703 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	11.6395512	11.6395502 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	23.2895336	23.2895317 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	11.0676537	11.0676527 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.4505496	3.45054936 ± 0.00122100122100122	✔

Test Step 2.29 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	11.1999998
Batt_Volt_M_f32	11.1000004
DMAData_G_str.SlowADC_Cnt_u16[0]	3016
DMAData_G_str.SlowADC_Cnt_u16[1]	3017
DMAData_G_str.SlowADC_Cnt_u16[2]	3018
DMAData_G_str.SlowADC_Cnt_u16[3]	3019
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	65535
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2824
SysCVSwitch_Volt_M_f32	17
Temperature_Volt_M_f32	2.9000001
Vref_Volt_M_f32	490.600006
k_ADCVrefScaling_Uls_f32	83.4000015
k_SlowADCValidDiag_Cnt_str.Threshold	51480
k_SlowADCValidDiag_Cnt_str.PStep	835
k_SlowADCValidDiag_Cnt_str.NStep	16380
k_VrefMax_Volts_f32	4.25500011
k_VrefMin_Volts_f32	4.25500011
k_VrefOORDiag_Cnt_str.Threshold	851
k_VrefOORDiag_Cnt_str.PStep	851
k_VrefOORDiag_Cnt_str.NStep	851
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	11.1999998

Name	Input Value
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	11.1000004
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	17
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.9000001
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	12.4212809	12.4212799 ± 0.00732600732600733	✔
Batt_Volt_M_f32	24.8548012	24.8547993 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	851	851 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	11.6189785	11.6189785 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.6825397	3.6825397 ± 0.00122100122100122	✔
Vref_Volt_M_f32	307.327484	307.327484 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	12.4212809	12.4212799 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	24.8548012	24.8547993 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	11.6189785	11.6189785 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.6825397	3.6825397 ± 0.00122100122100122	✔

Test Step 2.30 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	5.5999999
Batt_Volt_M_f32	5.5
DMAData_G_str.SlowADC_Cnt_u16[0]	1496
DMAData_G_str.SlowADC_Cnt_u16[1]	1497
DMAData_G_str.SlowADC_Cnt_u16[2]	1498
DMAData_G_str.SlowADC_Cnt_u16[3]	1499
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	39780
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1752
SysCVSwitch_Volt_M_f32	5.80000019
Temperature_Volt_M_f32	0.100000001
Vref_Volt_M_f32	100.099998
k_ADCVrefScaling_Uls_f32	83.9000015
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	18720
k_SlowADCValidDiag_Cnt_str.NStep	70
k_VrefMax_Volts_f32	2.7750001
k_VrefMin_Volts_f32	0
k_VrefOORDiag_Cnt_str.Threshold	555
k_VrefOORDiag_Cnt_str.PStep	0
k_VrefOORDiag_Cnt_str.NStep	0
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.5999999
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	13.8000002
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.100000001
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	6.16743946	6.16743898 ± 0.00732600732600733	✔
Batt_Volt_M_f32	12.3326607	12.3326597 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	555	555 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	7.20837498	7.2083745 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.82661784	1.82661784 ± 0.00122100122100122	✔
Vref_Volt_M_f32	153.45813	153.458115 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.16743946	6.16743898 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	12.3326607	12.3326597 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	7.20837498	7.2083745 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.82661784	1.82661784 ± 0.00122100122100122	✔

Test Step 2.31 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	5.80000019
Batt_Volt_M_f32	5.69999981
DMAData_G_str.SlowADC_Cnt_u16[0]	1686
DMAData_G_str.SlowADC_Cnt_u16[1]	1687
DMAData_G_str.SlowADC_Cnt_u16[2]	1688
DMAData_G_str.SlowADC_Cnt_u16[3]	1689
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	42120
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1886
SysCVSwitch_Volt_M_f32	6.19999981
Temperature_Volt_M_f32	0.200000003
Vref_Volt_M_f32	120.199997
k_ADCVrefScaling_Uls_f32	94.0999985
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	21060
k_SlowADCValidDiag_Cnt_str.NStep	9360
k_VrefMax_Volts_f32	2.96000004
k_VrefMin_Volts_f32	0.185000002
k_VrefOORDiag_Cnt_str.Threshold	592
k_VrefOORDiag_Cnt_str.PStep	37
k_VrefOORDiag_Cnt_str.NStep	37
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.80000019
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.69999981
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	14.1999998
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.200000003
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	6.94916964	6.94916916 ± 0.00732600732600733	✔
Batt_Volt_M_f32	13.8979282	13.8979273 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	592	592 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	7.75969982	7.75969982 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.05860806	2.05860806 ± 0.00122100122100122	✔
Vref_Volt_M_f32	193.944824	193.944809 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.94916964	6.94916916 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	13.8979282	13.8979273 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	7.75969982	7.75969982 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.05860806	2.05860806 ± 0.00122100122100122	✔

Test Step 2.32 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6
Batt_Volt_M_f32	5.9000001
DMAData_G_str.SlowADC_Cnt_u16[0]	1876
DMAData_G_str.SlowADC_Cnt_u16[1]	1877
DMAData_G_str.SlowADC_Cnt_u16[2]	1878
DMAData_G_str.SlowADC_Cnt_u16[3]	1879
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	44460
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2020
SysCVSwitch_Volt_M_f32	6.5999999
Temperature_Volt_M_f32	0.300000012
Vref_Volt_M_f32	140.300003
k_ADCVrefScaling_Uls_f32	3.5999999
k_SlowADCValidDiag_Cnt_str.Threshold	32767
k_SlowADCValidDiag_Cnt_str.PStep	23400
k_SlowADCValidDiag_Cnt_str.NStep	100
k_VrefMax_Volts_f32	3.14499998
k_VrefMin_Volts_f32	0.370000005
k_VrefOORDiag_Cnt_str.Threshold	629
k_VrefOORDiag_Cnt_str.PStep	74

Name	Input Value
k_VrefOORDiag_Cnt_str.NStep	74
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.9000001
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	14.6000004
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.300000012
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	7.73089981	7.73089933 ± 0.00732600732600733	✔
Batt_Volt_M_f32	15.4631948	15.4631948 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	629	629 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	8.31102562	8.31102562 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.29059839	2.29059839 ± 0.00122100122100122	✔
Vref_Volt_M_f32	8.2549448	8.2549448 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	7.73089981	7.73089933 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	15.4631948	15.4631948 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	8.31102562	8.31102562 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.29059839	2.29059839 ± 0.00122100122100122	✔

Test Step 2.33 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6.19999981
Batt_Volt_M_f32	6.0999999
DMAData_G_str.SlowADC_Cnt_u16[0]	2066
DMAData_G_str.SlowADC_Cnt_u16[1]	2067
DMAData_G_str.SlowADC_Cnt_u16[2]	2068
DMAData_G_str.SlowADC_Cnt_u16[3]	2069
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	46800
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2154
SysCVSwitch_Volt_M_f32	7
Temperature_Volt_M_f32	0.400000006
Vref_Volt_M_f32	160.399994
k_ADCVrefScaling_Uls_f32	16.8999996
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	3.32999992
k_VrefMin_Volts_f32	0.555000007
k_VrefOORDiag_Cnt_str.Threshold	666
k_VrefOORDiag_Cnt_str.PStep	111
k_VrefOORDiag_Cnt_str.NStep	111
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.19999981
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.0999999
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	15
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.400000006
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	8.51262951	8.51262951 ± 0.00732600732600733	✔
Batt_Volt_M_f32	17.0284634	17.0284615 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	666	666 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	8.86235142	8.86235046 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.52258873	2.52258849 ± 0.00122100122100122	✔
Vref_Volt_M_f32	42.6730156	42.6730156 ± 0.00009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	8.51262951	8.51262951 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	17.0284634	17.0284615 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	8.86235142	8.86235046 ± 0.00488400488400488	✔
			✔

Name	Actual Value	Expected Value	Result
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.52258873	2.52258849 ± 0.0012100122100122	

Test Step 2.34 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6.4000001
Batt_Volt_M_f32	6.30000019
DMAData_G_str.SlowADC_Cnt_u16[0]	2256
DMAData_G_str.SlowADC_Cnt_u16[1]	2257
DMAData_G_str.SlowADC_Cnt_u16[2]	2258
DMAData_G_str.SlowADC_Cnt_u16[3]	2259
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	49140
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2288
SysCVSwitch_Volt_M_f32	7.4000001
Temperature_Volt_M_f32	0.5
Vref_Volt_M_f32	180.5
k_ADCVrefScaling_Uls_f32	30.2000008
k_SlowADCValidDiag_Cnt_str.Threshold	32767
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	65535
k_VrefMax_Volts_f32	3.5150001
k_VrefMin_Volts_f32	0.74000001
k_VrefOORDiag_Cnt_str.Threshold	703
k_VrefOORDiag_Cnt_str.PStep	148
k_VrefOORDiag_Cnt_str.NStep	148
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.4000001
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.30000019
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	15.3999996
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.5
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	9.29436016	9.29435921 ± 0.00732600732600733	✔
Batt_Volt_M_f32	18.593729	18.593729 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	703	703 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	9.41367626	9.41367626 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.75457883	2.75457883 ± 0.0012100122100122	✔
Vref_Volt_M_f32	83.2620316	83.2620239 ± 0.00009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	9.29436016	9.29435921 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	18.593729	18.593729 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	9.41367626	9.41367626 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.75457883	2.75457883 ± 0.0012100122100122	✔

Test Step 2.35 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6.5999999
Batt_Volt_M_f32	6.5
DMAData_G_str.SlowADC_Cnt_u16[0]	2446
DMAData_G_str.SlowADC_Cnt_u16[1]	2447
DMAData_G_str.SlowADC_Cnt_u16[2]	2448
DMAData_G_str.SlowADC_Cnt_u16[3]	2449
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	51480
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2422
SysCVSwitch_Volt_M_f32	7.80000019
Temperature_Volt_M_f32	0.600000024
Vref_Volt_M_f32	200.600006
k_ADCVrefScaling_Uls_f32	43.5
k_SlowADCValidDiag_Cnt_str.Threshold	49140
k_SlowADCValidDiag_Cnt_str.PStep	32767
k_SlowADCValidDiag_Cnt_str.NStep	835
k_VrefMax_Volts_f32	3.70000005

Name	Input Value
k_VrefMin_Volts_f32	0.925000012
k_VrefOORDiag_Cnt_str.Threshold	740
k_VrefOORDiag_Cnt_str.PStep	185
k_VrefOORDiag_Cnt_str.NStep	185
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.5999999
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	15.8000002
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.600000024
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	10.0760899	10.0760899 ± 0.00732600732600733	✔
Batt_Volt_M_f32	20.1589985	20.1589966 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	740	740 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	9.96500206	9.96500206 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	2.98656917	2.98656893 ± 0.00122100122100122	✔
Vref_Volt_M_f32	130.021988	130.021973 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10.0760899	10.0760899 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	20.1589985	20.1589966 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	9.96500206	9.96500206 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	2.98656917	2.98656893 ± 0.00122100122100122	✔

Test Step 2.36 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6.80000019
Batt_Volt_M_f32	6.69999981
DMAData_G_str.SlowADC_Cnt_u16[0]	2636
DMAData_G_str.SlowADC_Cnt_u16[1]	2637
DMAData_G_str.SlowADC_Cnt_u16[2]	2638
DMAData_G_str.SlowADC_Cnt_u16[3]	2639
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	53820
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2556
SysCVSwitch_Volt_M_f32	8.19999981
Temperature_Volt_M_f32	0.699999988
Vref_Volt_M_f32	220.699997
k_ADCVrefScaling_UIs_f32	56.7999992
k_SlowADCValidDiag_Cnt_str.Threshold	51480
k_SlowADCValidDiag_Cnt_str.PStep	843
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	3.88499999
k_VrefMin_Volts_f32	1.11000001
k_VrefOORDiag_Cnt_str.Threshold	777
k_VrefOORDiag_Cnt_str.PStep	222
k_VrefOORDiag_Cnt_str.NStep	222
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.80000019
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.69999981
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	16.2000008
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.699999988
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	10.8578205	10.8578196 ± 0.00732600732600733	✔
Batt_Volt_M_f32	21.7242661	21.7242641 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	777	777 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	10.5163279	10.5163269 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.21855927	3.21855927 ± 0.00122100122100122	✔
Vref_Volt_M_f32	182.952881	182.952866 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	10.8578205	10.8578196 ± 0.00732600732600733	✔

Name	Actual Value	Expected Value	Result
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	21.7242661	21.7242641 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	10.5163279	10.5163269 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.21855927	3.21855927 ± 0.00122100122100122	✔

Test Step 2.37 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	7
Batt_Volt_M_f32	6.9000001
DMAData_G_str.SlowADC_Cnt_u16[0]	2826
DMAData_G_str.SlowADC_Cnt_u16[1]	2827
DMAData_G_str.SlowADC_Cnt_u16[2]	2828
DMAData_G_str.SlowADC_Cnt_u16[3]	2829
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	56160
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2690
SysCVSwitch_Volt_M_f32	8.60000038
Temperature_Volt_M_f32	0.800000012
Vref_Volt_M_f32	240.800003
k_ADCVrefScaling_Uls_f32	70.0999985
k_SlowADCValidDiag_Cnt_str.Threshold	80
k_SlowADCValidDiag_Cnt_str.PStep	3
k_SlowADCValidDiag_Cnt_str.NStep	65535
k_VrefMax_Volts_f32	4.07000017
k_VrefMin_Volts_f32	1.29499996
k_VrefOORDiag_Cnt_str.Threshold	814
k_VrefOORDiag_Cnt_str.PStep	259
k_VrefOORDiag_Cnt_str.NStep	259
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	7
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.9000001
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	16.6000004
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.800000012
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	11.6395512	11.6395502 ± 0.00732600732600733	✔
Batt_Volt_M_f32	23.2895336	23.2895317 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	814	814 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	11.0676537	11.0676527 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.4505496	3.45054936 ± 0.00122100122100122	✔
Vref_Volt_M_f32	242.054703	242.054703 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	11.6395512	11.6395502 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	23.2895336	23.2895317 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	11.0676537	11.0676527 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.4505496	3.45054936 ± 0.00122100122100122	✔

Test Step 2.38 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	7.19999981
Batt_Volt_M_f32	7.0999999
DMAData_G_str.SlowADC_Cnt_u16[0]	3016
DMAData_G_str.SlowADC_Cnt_u16[1]	3017
DMAData_G_str.SlowADC_Cnt_u16[2]	3018
DMAData_G_str.SlowADC_Cnt_u16[3]	3019
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	65535
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	2824
SysCVSwitch_Volt_M_f32	9
Temperature_Volt_M_f32	0.899999976
Vref_Volt_M_f32	260.899994
k_ADCVrefScaling_Uls_f32	83.4000015
k_SlowADCValidDiag_Cnt_str.Threshold	53
k_SlowADCValidDiag_Cnt_str.PStep	65

Name	Input Value
k_SlowADCValidDiag_Cnt_str.NStep	32767
k_VrefMax_Volts_f32	4.25500011
k_VrefMin_Volts_f32	1.48000002
k_VrefOORDiag_Cnt_str.Threshold	851
k_VrefOORDiag_Cnt_str.PStep	296
k_VrefOORDiag_Cnt_str.NStep	296
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	7.19999981
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	7.0999999
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	17
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.899999976
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	12.4212809	12.4212799 ± 0.00732600732600733	✔
Batt_Volt_M_f32	24.8548012	24.8547993 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	851	851 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	11.6189785	11.6189785 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.6825397	3.6825397 ± 0.00122100122100122	✔
Vref_Volt_M_f32	307.327484	307.327484 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	12.4212809	12.4212799 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	24.8548012	24.8547993 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	11.6189785	11.6189785 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.6825397	3.6825397 ± 0.00122100122100122	✔

Test Step 2.39 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	5
Batt_Volt_M_f32	5
DMAData_G_str.SlowADC_Cnt_u16[0]	1216
DMAData_G_str.SlowADC_Cnt_u16[1]	1216
DMAData_G_str.SlowADC_Cnt_u16[2]	1216
DMAData_G_str.SlowADC_Cnt_u16[3]	1216
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	0
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	5
Temperature_Volt_M_f32	0
Vref_Volt_M_f32	0
k_ADCVrefScaling_Uls_f32	1
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	0
k_VrefMin_Volts_f32	0
k_VrefOORDiag_Cnt_str.Threshold	0
k_VrefOORDiag_Cnt_str.PStep	0
k_VrefOORDiag_Cnt_str.NStep	0
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.00307274	5.00307274 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.0177116	10.0177116 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	0	0 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	5.00307274	5.00307274 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.48473752	1.48473752 ± 0.00122100122100122	✔

Name	Actual Value	Expected Value	Result
Vref_Volt_M_f32	1.48473752	1.48473752 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.00307274	5.00307274 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.0177116	10.0177116 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.00307274	5.00307274 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.48473752	1.48473752 ± 0.00122100122100122	✔

Test Step 2.40 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	31
Batt_Volt_M_f32	31
DMAData_G_str.SlowADC_Cnt_u16[0]	3762
DMAData_G_str.SlowADC_Cnt_u16[1]	3762
DMAData_G_str.SlowADC_Cnt_u16[2]	3762
DMAData_G_str.SlowADC_Cnt_u16[3]	3762
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	65535
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	4095
SysCVSwitch_Volt_M_f32	31
Temperature_Volt_M_f32	5
Vref_Volt_M_f32	500
k_ADCVrefScaling_UIs_f32	100
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	65535
k_VrefMax_Volts_f32	5
k_VrefMin_Volts_f32	5
k_VrefOORDiag_Cnt_str.Threshold	1000
k_VrefOORDiag_Cnt_str.PStep	1000
k_VrefOORDiag_Cnt_str.NStep	1000
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	31
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	31
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	31
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	5
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	15.4782562	15.4782562 ± 0.00732600732600733	✔
Batt_Volt_M_f32	30.9922962	30.9922943 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	1000	1000 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	16.848341	16.848341 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	4.59340668	4.59340668 ± 0.00122100122100122	✔
Vref_Volt_M_f32	459.340668	459.340668 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	15.4782562	15.4782562 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	30.9922962	30.9922943 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	16.848341	16.848341 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	4.59340668	4.59340668 ± 0.00122100122100122	✔

Test Case 3: Path Test

Specification

```
Performance Metrics (With "None" Instrumentation
and WithPS Environment)

CPU Cycles:

TS3.1 1535.00 Cycles
TS3.2 1032.00 Cycles
TS3.3 981.00 Cycles
TS3.4 991.00 Cycles
TS3.5 1490.00 Cycles
TS3.6 1447.00 Cycles
TS3.7 2933.00 Cycles
```

Description

Vector Description

TS3.1"If (True = DataValid_Cnt_T_lgc)=True;
If (Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=True ;
If (DiagFailed_m(IoHwAb_ADCVrefErrorAcc_Cnt_M_u16, k_VrefOORDiag_Cnt_str) = D_TRUE_CNT_LGC)=True"
TS3.2"If (True = DataValid_Cnt_T_lgc)=True ;
If (Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=False ;
ElseIf (Vref_Volt_M_f32 < k_VrefMin_Volts_f32)=False ;
If (IoHwAb_ADCVrefErrorAcc_Cnt_M_u16 = D_ZERO_CNT_U16)=False
"
TS3.3"If (True = DataValid_Cnt_T_lgc)=True ;
If (Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=True;
If (DiagFailed_m(IoHwAb_ADCVrefErrorAcc_Cnt_M_u16, k_VrefOORDiag_Cnt_str) = D_TRUE_CNT_LGC)=False
"
TS3.4"If (True = DataValid_Cnt_T_lgc)=True ;
If (Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=False;
If (Vref_Volt_M_f32 < k_VrefMin_Volts_f32)=True;"
TS3.5"If (True = DataValid_Cnt_T_lgc)=True;
If (Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=False;
If (Vref_Volt_M_f32 < k_VrefMin_Volts_f32)= True;
If (DiagFailed_m(IoHwAb_ADCVrefErrorAcc_Cnt_M_u16, k_VrefOORDiag_Cnt_str) = D_TRUE_CNT_LGC)=True;
"
TS3.6"If (True = DataValid_Cnt_T_lgc)=True;
If (Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=False;
If (Vref_Volt_M_f32 < k_VrefMin_Volts_f32)= False;
If (IoHwAb_ADCVrefErrorAcc_Cnt_M_u16 = D_ZERO_CNT_U16)=True;
"
TS3.7" If (True = DataValid_Cnt_T_lgc)=False;
"

Test Step 3.1 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	5.5999999
Batt_Volt_M_f32	5.5
DMAData_G_str.SlowADC_Cnt_u16[0]	1216
DMAData_G_str.SlowADC_Cnt_u16[1]	1217
DMAData_G_str.SlowADC_Cnt_u16[2]	1218
DMAData_G_str.SlowADC_Cnt_u16[3]	1220
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	0
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	5.80000019
Temperature_Volt_M_f32	0.100000001
Vref_Volt_M_f32	100.099998
k_ADCVrefScaling_Uls_f32	1.10000002
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	0
k_VrefMin_Volts_f32	0
k_VrefOORDiag_Cnt_str.Threshold	0
k_VrefOORDiag_Cnt_str.PStep	0
k_VrefOORDiag_Cnt_str.NStep	0
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.5999999
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.80000019
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.100000001
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.0195303	5.0195303 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.0259504	10.0259495 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	0	0 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔

Name	Actual Value	Expected Value	Result
SysCVSwitch_Volt_M_f32	5.00307274	5.00307274 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.48473752	1.48473752 ± 0.00122100122100122	✔
Vref_Volt_M_f32	1.63589752	1.6358974 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.0195303	5.0195303 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.0259504	10.0259495 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.00307274	5.00307274 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.48473752	1.48473752 ± 0.00122100122100122	✔

Test Step 3.2 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	5.5999999
Batt_Volt_M_f32	5.5
DMAData_G_str.SlowADC_Cnt_u16[0]	1216
DMAData_G_str.SlowADC_Cnt_u16[1]	1217
DMAData_G_str.SlowADC_Cnt_u16[2]	1218
DMAData_G_str.SlowADC_Cnt_u16[3]	1220
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	15
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	5.80000019
Temperature_Volt_M_f32	0.100000001
Vref_Volt_M_f32	100.099998
k_ADCVrefScaling_Uls_f32	1
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	2
k_VrefMin_Volts_f32	0
k_VrefOORDiag_Cnt_str.Threshold	25
k_VrefOORDiag_Cnt_str.PStep	5
k_VrefOORDiag_Cnt_str.NStep	0
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.5999999
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.80000019
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.100000001
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.0195303	5.0195303 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.0259504	10.0259495 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	15	15 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	*none*	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	*none*	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	*none*	✔
SysCVSwitch_Volt_M_f32	5.00307274	5.00307274 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.48473752	1.48473752 ± 0.00122100122100122	✔
Vref_Volt_M_f32	1.48717952	1.48717952 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.0195303	5.0195303 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.0259504	10.0259495 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.00307274	5.00307274 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.48473752	1.48473752 ± 0.00122100122100122	✔

Test Step 3.3 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	5.5999999
Batt_Volt_M_f32	5.5
DMAData_G_str.SlowADC_Cnt_u16[0]	1216
DMAData_G_str.SlowADC_Cnt_u16[1]	1217
DMAData_G_str.SlowADC_Cnt_u16[2]	1218
DMAData_G_str.SlowADC_Cnt_u16[3]	1220
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	15
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	5.80000019
Temperature_Volt_M_f32	0.100000001

Name	Input Value
Vref_Volt_M_f32	100.099998
k_ADCVrefScaling_Uls_f32	1.10000002
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	0
k_VrefMin_Volts_f32	0
k_VrefOORDiag_Cnt_str.Threshold	25
k_VrefOORDiag_Cnt_str.PStep	5
k_VrefOORDiag_Cnt_str.NStep	0
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.5999999
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.80000019
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.100000001
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.0195303	5.0195303 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.0259504	10.0259495 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	20	20 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	*none*	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	*none*	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	*none*	✔
SysCVSwitch_Volt_M_f32	5.00307274	5.00307274 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.48473752	1.48473752 ± 0.00122100122100122	✔
Vref_Volt_M_f32	1.63589752	1.6358974 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.0195303	5.0195303 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.0259504	10.0259495 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.00307274	5.00307274 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.48473752	1.48473752 ± 0.00122100122100122	✔

Test Step 3.4 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6.4000001
Batt_Volt_M_f32	6.30000019
DMAData_G_str.SlowADC_Cnt_u16[0]	3100
DMAData_G_str.SlowADC_Cnt_u16[1]	3200
DMAData_G_str.SlowADC_Cnt_u16[2]	3000
DMAData_G_str.SlowADC_Cnt_u16[3]	3762
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	0
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	7.4000001
Temperature_Volt_M_f32	0.5
Vref_Volt_M_f32	180.5
k_ADCVrefScaling_Uls_f32	1
k_SlowADCValidDiag_Cnt_str.Threshold	1
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	4.5
k_VrefMin_Volts_f32	4.5
k_VrefOORDiag_Cnt_str.Threshold	500
k_VrefOORDiag_Cnt_str.PStep	300
k_VrefOORDiag_Cnt_str.NStep	500
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.4000001
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.30000019
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	7.4000001
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.5
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	15.4782562	15.4782562 ± 0.00732600732600733	✔
Batt_Volt_M_f32	26.3624001	26.3623981 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	300	300 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	*none*	✔

Name	Actual Value	Expected Value	Result
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	*none*	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	*none*	✔
SysCVSwitch_Volt_M_f32	5.00307274	5.00307274 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.78510404	3.7851038 ± 0.00122100122100122	✔
Vref_Volt_M_f32	3.66300368	3.66300368 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	15.4782562	15.4782562 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	26.3624001	26.3623981 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.00307274	5.00307274 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.78510404	3.7851038 ± 0.00122100122100122	✔

Test Step 3.5 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	6.4000001
Batt_Volt_M_f32	6.30000019
DMAData_G_str.SlowADC_Cnt_u16[0]	3100
DMAData_G_str.SlowADC_Cnt_u16[1]	3200
DMAData_G_str.SlowADC_Cnt_u16[2]	3000
DMAData_G_str.SlowADC_Cnt_u16[3]	3762
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	1
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	7.4000001
Temperature_Volt_M_f32	0.5
Vref_Volt_M_f32	180.5
k_ADCVrefScaling_Uls_f32	1
k_SlowADCValidDiag_Cnt_str.Threshold	1
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	4.5
k_VrefMin_Volts_f32	4.5
k_VrefOORDiag_Cnt_str.Threshold	300
k_VrefOORDiag_Cnt_str.PStep	300
k_VrefOORDiag_Cnt_str.NStep	500
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	6.4000001
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	6.30000019
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	7.4000001
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.5
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	15.4782562	15.4782562 ± 0.00732600732600733	✔
Batt_Volt_M_f32	26.3624001	26.3623981 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	300	300 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	2	2	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
SysCVSwitch_Volt_M_f32	5.00307274	5.00307274 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	3.78510404	3.7851038 ± 0.00122100122100122	✔
Vref_Volt_M_f32	3.66300368	3.66300368 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	15.4782562	15.4782562 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	26.3624001	26.3623981 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.00307274	5.00307274 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	3.78510404	3.7851038 ± 0.00122100122100122	✔

Test Step 3.6 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	5.5999999
Batt_Volt_M_f32	5.5
DMAData_G_str.SlowADC_Cnt_u16[0]	1216
DMAData_G_str.SlowADC_Cnt_u16[1]	1217
DMAData_G_str.SlowADC_Cnt_u16[2]	1218
DMAData_G_str.SlowADC_Cnt_u16[3]	1220
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	15
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216

Name	Input Value
SysCVSwitch_Volt_M_f32	5.80000019
Temperature_Volt_M_f32	0.100000001
Vref_Volt_M_f32	100.099998
k_ADCVrefScaling_Uls_f32	2
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	4
k_VrefMin_Volts_f32	0
k_VrefOORDiag_Cnt_str.Threshold	25
k_VrefOORDiag_Cnt_str.PStep	5
k_VrefOORDiag_Cnt_str.NStep	23
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.5999999
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.80000019
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.100000001
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.0195303	5.0195303 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.0259504	10.0259495 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	0	0 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	70	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
SysCVSwitch_Volt_M_f32	5.00307274	5.00307274 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	1.48473752	1.48473752 ± 0.00122100122100122	✔
Vref_Volt_M_f32	2.97435904	2.97435904 ± 0.000009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.0195303	5.0195303 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	10.0259504	10.0259495 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.00307274	5.00307274 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	1.48473752	1.48473752 ± 0.00122100122100122	✔

Test Step 3.7 (Repeat Count = 1) ✔

Name	Input Value
BattSwitched_Volt_M_f32	5.5999999
Batt_Volt_M_f32	5.5
DMAData_G_str.SlowADC_Cnt_u16[0]	65535
DMAData_G_str.SlowADC_Cnt_u16[1]	65535
DMAData_G_str.SlowADC_Cnt_u16[2]	65535
DMAData_G_str.SlowADC_Cnt_u16[3]	65535
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	15
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadADC.Rte_SysC	1216
SysCVSwitch_Volt_M_f32	5.80000019
Temperature_Volt_M_f32	0.100000001
Vref_Volt_M_f32	100.099998
k_ADCVrefScaling_Uls_f32	1
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0
k_VrefMax_Volts_f32	2
k_VrefMin_Volts_f32	0
k_VrefOORDiag_Cnt_str.Threshold	25
k_VrefOORDiag_Cnt_str.PStep	5
k_VrefOORDiag_Cnt_str.NStep	0
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.5999999
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.5
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.80000019
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.100000001
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_BattSwitched_Volt_f32	tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_Batt_Volt_f32	tgt_IoHwAb_ReadADC_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_SysCVSwitch_Volt_f32	tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_ReadADC_TemperatureADC_Volt_f32	tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.5999999	5.5999999 ± 0.00732600732600733	✔
Batt_Volt_M_f32	5.5	5.5 ± 0.00732600732600733	✔
CDD_ePWM4CMPB_Cnt_G_u16	65535	65535	✔

TEST DETAILS REPORT

IoHwAb_ReadADC

2014-12-17, 19:01:03+0530

Name	Actual Value	Expected Value	Result
IoHwAb_ADCVrefErrorAcc_Cnt_M_u16	15	15 ± 0	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	70	*none*	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	*none*	✔
Rte_Call_IoHwAbstractionUsr_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
SysCVSwitch_Volt_M_f32	5.80000019	5.80000019 ± 0.00488400488400488	✔
Temperature_Volt_M_f32	0.100000001	0.100000001 ± 0.00122100122100122	✔
Vref_Volt_M_f32	100.099998	100.099998 ± 0.0009	✔
tgt_IoHwAb_ReadADC_BattSwitched_Volt_f32.value	5.5999999	5.5999999 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_Batt_Volt_f32.value	5.5	5.5 ± 0.00732600732600733	✔
tgt_IoHwAb_ReadADC_SysCVSwitch_Volt_f32.value	5.80000019	5.80000019 ± 0.00488400488400488	✔
tgt_IoHwAb_ReadADC_TemperatureADC_Volt_f32.value	0.100000001	0.100000001 ± 0.00122100122100122	✔

TEST DETAILS REPORT

IoHwAb_SlowADCGroupValidity

2014-12-17, 19:02:08+0530

Project	IoHwAbstractionUsr
Module	IoHwAbstractionUsr
Test Object	IoHwAb_SlowADCGroupValidity

Instrumentation: Test Object Only

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

Statistics

Total Testcases	3
Successful	3
Failed	0
Not Executed	0

Module Properties

Project Root Directory	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr
Configuration File	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr\UnitTestEnv\config\TMS570_GCC_UDE_CCS4_Config.xml
Target Environment	TI TMS 570 PLS UDE (Default)
Kind of Test	Unit Test
Linker Options	
Source File(s)	
File	$(PROJECTROOT)\IoHwAbstractionUsr\src\IoHwAbstractionUsr.c
Compiler Options	-DSKIP_MAGIC_NUMBER= -D_DATA_ACCESS= -Dconst= -I$(PROJECTROOT)\IoHwAbstractionUsr\utp\contract -I$(PROJECTROOT)\IoHwAbstractionUsr\utp\contract\IoHwAbstractionUsr -I$(PROJECTROOT)\NxtrLib\include -I$(PROJECTROOT)\StdDef\include -I$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include -I$(PROJECTROOT)\StdDef\include\TMS570_HerculesRegs

Comments/Description/Specification

Name	Text
Module 'IoHwAbstractionUsr'	**********Unit Test Description********** Name of Tester: Ajit Shrivastava Code File(s) Under Test: IoHwAbstractionUsr.c Code File(s) Version: 5 Module Design Document: N/A Module Design Document Version: N/A Data Dictionary Version: 2 Unit Test Plan Version: 2 Optimization Level: Level 2 Compiler (CodeGen) Version: TMS470_4.9.5 Model Type: Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.31 Total FLASH Used (Bytes): 860 Total RAM Used (Bytes): 28 Total CALS Used (Bytes): 36 Special Test Requirements: Test Date: 12-17-2014 Comments:" NOTE 1 :Changes made in the file Rte_Types.h and adc_regs.h to provide declration to the used variables. NOTE 2 : In “IoHwAb_SlowADCGroupValidity” to have 100% coverage, Out of range value of “DMAData_G_str.SlowADC_Cnt_u16(i)” is taken . As per the Data Dictionary is 3762 so to satisfy “If (DMAData_G_str.SlowADC_Cnt_u16(i) = &HFFFF)” the value is taken as 65535. NOTE 3 : ""CBD_Sandbox_dbg.map"" map file is embedded for reference. " **********

Attributes

Name	Value
Compiler Install Path	$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5
Float Precision	9
InitObjDir	$(PROJECTROOT)\UnitTestEnv\static_build_files\obj
InitSrcDir	$(PROJECTROOT)\UnitTestEnv\static_build_files\src
Linker File	$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl

Attributes

Name	Value
Target Install Path	$(ProgramFiles)\pls\UDE 4.0
Time Unit	Cycles
Timer Enabled	false
Timer Prescale	0
Timer Resolution	1
UDE Config File	$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg
Workspace File	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

Test Case 1: Metrics Test

Specification

```
Performance Metrics (With "None" Instrumentation
and WithPS Environment)

CPU Cycles:

TS1.1 235.00 Cycles
TS1.2 2429.00 Cycles
```

Description

Vector Description

TS1.1Shortest Path ==> If (DMAData_G_str.SlowADC_Cnt_u16(i) = &HFFFF)=False;
TS1.2"Longest Path ==> If (DMAData_G_str.SlowADC_Cnt_u16(i) = &HFFFF)=True;
If (DiagFailed_m(IoHwAb_SlowADCValidAcc_Cnt_M_u16, k_SlowADCValidDiag_Cnt_str) = D_TRUE_CNT_LGC)=True;"

Test Step 1.1 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	3762
DMAData_G_str.SlowADC_Cnt_u16[1]	3762
DMAData_G_str.SlowADC_Cnt_u16[2]	3762
DMAData_G_str.SlowADC_Cnt_u16[3]	3762
IoHwAb_SlowADCValidAcc_Cnt_M_u16	65535
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	65535

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 1.2 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	65535
DMAData_G_str.SlowADC_Cnt_u16[1]	65535
DMAData_G_str.SlowADC_Cnt_u16[2]	65535
DMAData_G_str.SlowADC_Cnt_u16[3]	65535
IoHwAb_SlowADCValidAcc_Cnt_M_u16	65535
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	65535

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	0	0	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	65535	65535 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
DMA_REPORTERRORSTATUS	4	DMA_REPORTERRORSTATUS	4	✔

Test Case 2: Boundary Test

Specification

```
Performance Metrics (With "None" Instrumentation
and WithPS Environment)

CPU Cycles:

TS2.1 235.00 Cycles
TS2.2 220.00 Cycles
TS2.3 220.00 Cycles
TS2.4 284.00 Cycles
TS2.5 255.00 Cycles
TS2.6 224.00 Cycles
TS2.7 224.00 Cycles
TS2.8 224.00 Cycles
TS2.9 224.00 Cycles
TS2.10 224.00 Cycles
TS2.11 224.00 Cycles
TS2.12 224.00 Cycles
TS2.13 224.00 Cycles
TS2.14 224.00 Cycles
TS2.15 271.00 Cycles
TS2.16 224.00 Cycles
TS2.17 224.00 Cycles
```

Description

Vector Description

TS2.1All Min
TS2.2All Max
TS2.3IoHwAb_SlowADCValidAcc_Cnt_M_u16 = Min
TS2.4IoHwAb_SlowADCValidAcc_Cnt_M_u16 = Max
TS2.5IoHwAb_SlowADCValidAcc_Cnt_M_u16 = Pos
TS2.6DMAData_G_str.SlowADC_Cnt_u16[5]=Min
TS2.7DMAData_G_str.SlowADC_Cnt_u16[5]=Max
TS2.8DMAData_G_str.SlowADC_Cnt_u16[5]=Pos
TS2.9k_SlowADCValidDiag_Cnt_str.Threshold= Min
TS2.10k_SlowADCValidDiag_Cnt_str.Threshold= Max
TS2.11k_SlowADCValidDiag_Cnt_str.Threshold= Pos
TS2.12k_SlowADCValidDiag_Cnt_str.Pstep = Min
TS2.13k_SlowADCValidDiag_Cnt_str.Pstep = Max
TS2.14k_SlowADCValidDiag_Cnt_str.Pstep = Pos
TS2.15k_SlowADCValidDiag_Cnt_str.Nstep = Min
TS2.16k_SlowADCValidDiag_Cnt_str.Nstep = Max
TS2.17k_SlowADCValidDiag_Cnt_str.Nstep = Pos

Test Step 2.1 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	1216
DMAData_G_str.SlowADC_Cnt_u16[1]	1216
DMAData_G_str.SlowADC_Cnt_u16[2]	1216
DMAData_G_str.SlowADC_Cnt_u16[3]	1216
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	0

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.2 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	2489
DMAData_G_str.SlowADC_Cnt_u16[1]	2489
DMAData_G_str.SlowADC_Cnt_u16[2]	2489
DMAData_G_str.SlowADC_Cnt_u16[3]	2489
IoHwAb_SlowADCValidAcc_Cnt_M_u16	65535
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	65535

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.3 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	1686
DMAData_G_str.SlowADC_Cnt_u16[1]	1687
DMAData_G_str.SlowADC_Cnt_u16[2]	1688
DMAData_G_str.SlowADC_Cnt_u16[3]	1689
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0
k_SlowADCValidDiag_Cnt_str.Threshold	14040
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	16380

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.4 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	1876
DMAData_G_str.SlowADC_Cnt_u16[1]	1877
DMAData_G_str.SlowADC_Cnt_u16[2]	1878
DMAData_G_str.SlowADC_Cnt_u16[3]	1879
IoHwAb_SlowADCValidAcc_Cnt_M_u16	65535
k_SlowADCValidDiag_Cnt_str.Threshold	16380
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	18720

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.5 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	2066
DMAData_G_str.SlowADC_Cnt_u16[1]	2067
DMAData_G_str.SlowADC_Cnt_u16[2]	2068
DMAData_G_str.SlowADC_Cnt_u16[3]	2069
IoHwAb_SlowADCValidAcc_Cnt_M_u16	32767
k_SlowADCValidDiag_Cnt_str.Threshold	18720
k_SlowADCValidDiag_Cnt_str.PStep	32767
k_SlowADCValidDiag_Cnt_str.NStep	21060

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.6 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	1216
DMAData_G_str.SlowADC_Cnt_u16[1]	1216
DMAData_G_str.SlowADC_Cnt_u16[2]	1216
DMAData_G_str.SlowADC_Cnt_u16[3]	1216
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0
k_SlowADCValidDiag_Cnt_str.Threshold	21060

Name	Input Value
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	23400

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.7 (Repeat Count = 1) ✔

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	3762
DMAData_G_str.SlowADC_Cnt_u16[1]	3762
DMAData_G_str.SlowADC_Cnt_u16[2]	3762
DMAData_G_str.SlowADC_Cnt_u16[3]	3762
IoHwAb_SlowADCValidAcc_Cnt_M_u16	2340
k_SlowADCValidDiag_Cnt_str.Threshold	23400
k_SlowADCValidDiag_Cnt_str.PStep	2340
k_SlowADCValidDiag_Cnt_str.NStep	25740

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.8 (Repeat Count = 1) ✔

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	2489
DMAData_G_str.SlowADC_Cnt_u16[1]	2489
DMAData_G_str.SlowADC_Cnt_u16[2]	2489
DMAData_G_str.SlowADC_Cnt_u16[3]	2489
IoHwAb_SlowADCValidAcc_Cnt_M_u16	4680
k_SlowADCValidDiag_Cnt_str.Threshold	25740
k_SlowADCValidDiag_Cnt_str.PStep	4680
k_SlowADCValidDiag_Cnt_str.NStep	42120

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.9 (Repeat Count = 1) ✔

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	3016
DMAData_G_str.SlowADC_Cnt_u16[1]	3017
DMAData_G_str.SlowADC_Cnt_u16[2]	3018
DMAData_G_str.SlowADC_Cnt_u16[3]	3019
IoHwAb_SlowADCValidAcc_Cnt_M_u16	7020
k_SlowADCValidDiag_Cnt_str.Threshold	0
k_SlowADCValidDiag_Cnt_str.PStep	7020
k_SlowADCValidDiag_Cnt_str.NStep	44460

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.10 (Repeat Count = 1) ✔

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	3206
DMAData_G_str.SlowADC_Cnt_u16[1]	3207
DMAData_G_str.SlowADC_Cnt_u16[2]	3208
DMAData_G_str.SlowADC_Cnt_u16[3]	3209
IoHwAb_SlowADCValidAcc_Cnt_M_u16	9360
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	9360
k_SlowADCValidDiag_Cnt_str.NStep	9360

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.11 (Repeat Count = 1) ✔

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	3396
DMAData_G_str.SlowADC_Cnt_u16[1]	3397
DMAData_G_str.SlowADC_Cnt_u16[2]	3398
DMAData_G_str.SlowADC_Cnt_u16[3]	3399
IoHwAb_SlowADCValidAcc_Cnt_M_u16	11700
k_SlowADCValidDiag_Cnt_str.Threshold	32767
k_SlowADCValidDiag_Cnt_str.PStep	11700
k_SlowADCValidDiag_Cnt_str.NStep	11700

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.12 (Repeat Count = 1) ✔

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	3586
DMAData_G_str.SlowADC_Cnt_u16[1]	3587
DMAData_G_str.SlowADC_Cnt_u16[2]	3588
DMAData_G_str.SlowADC_Cnt_u16[3]	3589
IoHwAb_SlowADCValidAcc_Cnt_M_u16	14040
k_SlowADCValidDiag_Cnt_str.Threshold	49140
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	14040

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.13 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	1306
DMAData_G_str.SlowADC_Cnt_u16[1]	1307
DMAData_G_str.SlowADC_Cnt_u16[2]	1308
DMAData_G_str.SlowADC_Cnt_u16[3]	1309
IoHwAb_SlowADCValidAcc_Cnt_M_u16	16380
k_SlowADCValidDiag_Cnt_str.Threshold	51480
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	16380

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.14 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	1496
DMAData_G_str.SlowADC_Cnt_u16[1]	1497
DMAData_G_str.SlowADC_Cnt_u16[2]	1498
DMAData_G_str.SlowADC_Cnt_u16[3]	1499
IoHwAb_SlowADCValidAcc_Cnt_M_u16	18720
k_SlowADCValidDiag_Cnt_str.Threshold	53820
k_SlowADCValidDiag_Cnt_str.PStep	32767
k_SlowADCValidDiag_Cnt_str.NStep	18720

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.15 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	1686
DMAData_G_str.SlowADC_Cnt_u16[1]	1687
DMAData_G_str.SlowADC_Cnt_u16[2]	1688
DMAData_G_str.SlowADC_Cnt_u16[3]	1689
IoHwAb_SlowADCValidAcc_Cnt_M_u16	21060
k_SlowADCValidDiag_Cnt_str.Threshold	56160
k_SlowADCValidDiag_Cnt_str.PStep	21060
k_SlowADCValidDiag_Cnt_str.NStep	0

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	21060	21060 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.16 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	1876
DMAData_G_str.SlowADC_Cnt_u16[1]	1877
DMAData_G_str.SlowADC_Cnt_u16[2]	1878
DMAData_G_str.SlowADC_Cnt_u16[3]	1879
IoHwAb_SlowADCValidAcc_Cnt_M_u16	23400
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	23400

Name	Input Value
k_SlowADCValidDiag_Cnt_str.NStep	65535

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 2.17 (Repeat Count = 1) ✔

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	3586
DMAData_G_str.SlowADC_Cnt_u16[1]	3587
DMAData_G_str.SlowADC_Cnt_u16[2]	3588
DMAData_G_str.SlowADC_Cnt_u16[3]	3589
IoHwAb_SlowADCValidAcc_Cnt_M_u16	25740
k_SlowADCValidDiag_Cnt_str.Threshold	11700
k_SlowADCValidDiag_Cnt_str.PStep	25740
k_SlowADCValidDiag_Cnt_str.NStep	32767

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Case 3: Path Test ✔

Specification

```
Performance Metrics (With "None" Instrumentation
and WithPS Environment)

CPU Cycles:

TS3.1 235.00 Cycles
TS3.2 2429.00 Cycles
TS3.3 422.00 Cycles
TS3.4 359.00 Cycles
```

Description

Vector Description

TS3.1If (DMAData_G_str.SlowADC_Cnt_u16(i) = &HFFFF)=False;
TS3.2" If (DMAData_G_str.SlowADC_Cnt_u16(i) = &HFFFF)=True;
If (DiagFailed_m(IoHwAb_SlowADCValidAcc_Cnt_M_u16, k_SlowADCValidDiag_Cnt_str) = D_TRUE_CNT_LGC)=True;"
TS3.3"If (DMAData_G_str.SlowADC_Cnt_u16(i) = &HFFFF)=True;
If (DiagFailed_m(IoHwAb_SlowADCValidAcc_Cnt_M_u16, k_SlowADCValidDiag_Cnt_str) = D_TRUE_CNT_LGC)=False;"
TS3.4"If (DMAData_G_str.SlowADC_Cnt_u16(i) = &HFFFF)=False;
DiagNStep_m(IoHwAb_SlowADCValidAcc_Cnt_M_u16, k_SlowADCValidDiag_Cnt_str)=True"

Test Step 3.1 (Repeat Count = 1) ✔

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	3762
DMAData_G_str.SlowADC_Cnt_u16[1]	3762
DMAData_G_str.SlowADC_Cnt_u16[2]	3762
DMAData_G_str.SlowADC_Cnt_u16[3]	3762
IoHwAb_SlowADCValidAcc_Cnt_M_u16	65535
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	65535

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	0	0 ± 0	✔

Test Step Call Trace ✔

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 3.2 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	65535
DMAData_G_str.SlowADC_Cnt_u16[1]	65535
DMAData_G_str.SlowADC_Cnt_u16[2]	65535
DMAData_G_str.SlowADC_Cnt_u16[3]	65535
IoHwAb_SlowADCValidAcc_Cnt_M_u16	65535
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	65535

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	0	0	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	65535	65535 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
DMA_REPORTERRORSTATUS	4	DMA_REPORTERRORSTATUS	4	✔

Test Step 3.3 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	65535
DMAData_G_str.SlowADC_Cnt_u16[1]	65535
DMAData_G_str.SlowADC_Cnt_u16[2]	65535
DMAData_G_str.SlowADC_Cnt_u16[3]	65535
IoHwAb_SlowADCValidAcc_Cnt_M_u16	3
k_SlowADCValidDiag_Cnt_str.Threshold	6554
k_SlowADCValidDiag_Cnt_str.PStep	55
k_SlowADCValidDiag_Cnt_str.NStep	432

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	0	0	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	223	223 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

Test Step 3.4 (Repeat Count = 1)

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	1686
DMAData_G_str.SlowADC_Cnt_u16[1]	1687
DMAData_G_str.SlowADC_Cnt_u16[2]	1688
DMAData_G_str.SlowADC_Cnt_u16[3]	1689
IoHwAb_SlowADCValidAcc_Cnt_M_u16	21060
k_SlowADCValidDiag_Cnt_str.Threshold	56160
k_SlowADCValidDiag_Cnt_str.PStep	21060
k_SlowADCValidDiag_Cnt_str.NStep	0

Name	Actual Value	Expected Value	Result
IoHwAb_SlowADCGroupValidity()	1	1	✔
IoHwAb_SlowADCValidAcc_Cnt_M_u16	21060	21060 ± 0	✔

Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
none	0	*** No Call Expected ***	0	✔

TEST DETAILS REPORT

IoHwAb_Init

2014-12-17, 18:59:17+0530

Project	IoHwAbstractionUsr
Module	IoHwAbstractionUsr
Test Object	IoHwAb_Init

Instrumentation: Test Object Only

Statement (C0) Coverage	100 %
Branch (C1) Coverage	100 %

Statistics

Total Testcases	1
Successful	1
Failed	0
Not Executed	0

Module Properties

Project Root Directory	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr
Configuration File	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr\UnitTestEnv\config\TMS570_GCC_UDE_CCS4_Config.xml
Target Environment	TI TMS 570 PLS UDE (Default)
Kind of Test	Unit Test
Linker Options	
Source File(s)	
File	$(PROJECTROOT)\IoHwAbstractionUsr\src\IoHwAbstractionUsr.c
Compiler Options	-DSKIP_MAGIC_NUMBER= -D_DATA_ACCESS= -Dconst= -I$(PROJECTROOT)\IoHwAbstractionUsr\utp\contract -I$(PROJECTROOT)\IoHwAbstractionUsr\utp\contract\IoHwAbstractionUsr -I$(PROJECTROOT)\NxtrLib\include -I$(PROJECTROOT)\StdDef\include -I$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include -I$(PROJECTROOT)\StdDef\include\TMS570_HerculesRegs

Comments/Description/Specification

Name	Text
Module 'IoHwAbstractionUsr'	**********Unit Test Description********** Name of Tester: Ajit Shrivastava Code File(s) Under Test: IoHwAbstractionUsr.c Code File(s) Version: 5 Module Design Document: N/A Module Design Document Version: N/A Data Dictionary Version: 2 Unit Test Plan Version: 2 Optimization Level: Level 2 Compiler (CodeGen) Version: TMS470_4.9.5 Model Type: Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.31 Total FLASH Used (Bytes): 860 Total RAM Used (Bytes): 28 Total CALS Used (Bytes): 36 Special Test Requirements: Test Date: 12-17-2014 Comments:" NOTE 1 :Changes made in the file Rte_Types.h and adc_regs.h to provide declration to the used variables. NOTE 2 : In “IoHwAb_SlowADCGroupValidity” to have 100% coverage, Out of range value of “DMAData_G_str.SlowADC_Cnt_u16(i)” is taken . As per the Data Dictionary is 3762 so to satisfy “If (DMAData_G_str.SlowADC_Cnt_u16(i) = &HFFFF)” the value is taken as 65535. NOTE 3 : ""CBD_Sandbox_dbg.map"" map file is embedded for reference. " **********

Attributes

Name	Value
Compiler Install Path	$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5
Float Precision	9
InitObjDir	$(PROJECTROOT)\UnitTestEnv\static_build_files\obj
InitSrcDir	$(PROJECTROOT)\UnitTestEnv\static_build_files\src
Linker File	$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	$(ProgramFiles)\pls\UDE 4.0
Time Unit	Cycles
Timer Enabled	false
Timer Prescale	0

Attributes

Name	Value
Timer Resolution	1
UDE Config File	$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg
Workspace File	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

Test Case 1: Boundary Test ✔

Specification

```
Performance Metrics (With "None" Instrumentation
and WithPS Environment)

CPU Cycles:

TS1.1 106.00 Cycles
TS1.2 106.00 Cycles
TS1.3 106.00 Cycles
```

Description Vector Description

TS1.1DMAData_G_str.SlowADC_Cnt_u16= MIN
TS1.2DMAData_G_str.SlowADC_Cnt_u16=MAX
TS1.3DMAData_G_str.SlowADC_Cnt_u16=MID

Test Step 1.1 (Repeat Count = 1) ✔

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	1216
DMAData_G_str.SlowADC_Cnt_u16[1]	1216
DMAData_G_str.SlowADC_Cnt_u16[2]	1216
DMAData_G_str.SlowADC_Cnt_u16[3]	1216
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_Init_BattSwitched_Volt_f32	tgt_IoHwAb_Init_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_Init_Batt_Volt_f32	tgt_IoHwAb_Init_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_Init_TemperatureADC_Volt_f32	tgt_IoHwAb_Init_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	5.00307274	5.00307274 ± 0.00732600732600733	✔
Batt_Volt_M_f32	10.0177116	10.0177116 ± 0.00732600732600733	✔
Temperature_Volt_M_f32	1.48473752	1.48473752 ± 0.00122100122100122	✔
tgt_IoHwAb_Init_BattSwitched_Volt_f32.value	5.00307274	5.00307274 ± 0.00732600732600733	✔
tgt_IoHwAb_Init_Batt_Volt_f32.value	10.0177116	10.0177116 ± 0.00732600732600733	✔
tgt_IoHwAb_Init_TemperatureADC_Volt_f32.value	1.48473752	1.48473752 ± 0.00122100122100122	✔

Test Step 1.2 (Repeat Count = 1) ✔

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	3762
DMAData_G_str.SlowADC_Cnt_u16[1]	3762
DMAData_G_str.SlowADC_Cnt_u16[2]	3762
DMAData_G_str.SlowADC_Cnt_u16[3]	3762
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_Init_BattSwitched_Volt_f32	tgt_IoHwAb_Init_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_Init_Batt_Volt_f32	tgt_IoHwAb_Init_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_Init_TemperatureADC_Volt_f32	tgt_IoHwAb_Init_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	15.4782562	15.4782562 ± 0.00732600732600733	✔
Batt_Volt_M_f32	30.9922962	30.9922943 ± 0.00732600732600733	✔
Temperature_Volt_M_f32	4.59340668	4.59340668 ± 0.00122100122100122	✔
tgt_IoHwAb_Init_BattSwitched_Volt_f32.value	15.4782562	15.4782562 ± 0.00732600732600733	✔
tgt_IoHwAb_Init_Batt_Volt_f32.value	30.9922962	30.9922943 ± 0.00732600732600733	✔
tgt_IoHwAb_Init_TemperatureADC_Volt_f32.value	4.59340668	4.59340668 ± 0.00122100122100122	✔

Test Step 1.3 (Repeat Count = 1) ✔

Name	Input Value
DMAData_G_str.SlowADC_Cnt_u16[0]	2489
DMAData_G_str.SlowADC_Cnt_u16[1]	2489
DMAData_G_str.SlowADC_Cnt_u16[2]	2489
DMAData_G_str.SlowADC_Cnt_u16[3]	2489
Rte_Inst_IoHwAbstractionUsr	tgt_Rte_Inst_IoHwAbstractionUsr
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_Init_BattSwitched_Volt_f32	tgt_IoHwAb_Init_BattSwitched_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_Init_Batt_Volt_f32	tgt_IoHwAb_Init_Batt_Volt_f32
tgt_Rte_Inst_IoHwAbstractionUsr.IoHwAb_Init_TemperatureADC_Volt_f32	tgt_IoHwAb_Init_TemperatureADC_Volt_f32

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	10.2406645	10.2406645 ± 0.00732600732600733	✔
Batt_Volt_M_f32	20.505003	20.505003 ± 0.00732600732600733	✔
Temperature_Volt_M_f32	3.03907204	3.03907204 ± 0.00122100122100122	✔
tgt_IoHwAb_Init_BattSwitched_Volt_f32.value	10.2406645	10.2406645 ± 0.00732600732600733	✔
tgt_IoHwAb_Init_Batt_Volt_f32.value	20.505003	20.505003 ± 0.00732600732600733	✔
tgt_IoHwAb_Init_TemperatureADC_Volt_f32.value	3.03907204	3.03907204 ± 0.00122100122100122	✔

TEST DETAILS REPORT

IoHwAb_CaptureADC

2014-12-17, 18:58:44+0530

Project	IoHwAbstractionUsr
Module	IoHwAbstractionUsr
Test Object	IoHwAb_CaptureADC

Instrumentation: Test Object Only

Statement (C0) Coverage	100 %
Branch (C1) Coverage	100 %

Statistics

Total Testcases	1
Successful	1
Failed	0
Not Executed	0

Module Properties

Project Root Directory	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr
Configuration File	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr\UnitTestEnv\config\TMS570_GCC_UDE_CCS4_Config.xml
Target Environment	TI TMS 570 PLS UDE (Default)
Kind of Test	Unit Test
Linker Options	
Source File(s)	
File	$(PROJECTROOT)\IoHwAbstractionUsr\src\IoHwAbstractionUsr.c
Compiler Options	-DSKIP_MAGIC_NUMBER= -D_DATA_ACCESS= -Dconst= -I$(PROJECTROOT)\IoHwAbstractionUsr\utp\contract -I$(PROJECTROOT)\IoHwAbstractionUsr\utp\contract\IoHwAbstractionUsr -I$(PROJECTROOT)\NxtrLib\include -I$(PROJECTROOT)\StdDef\include -I$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include -I$(PROJECTROOT)\StdDef\include\TMS570_HerculesRegs

Comments/Description/Specification

Name	Text
Module 'IoHwAbstractionUsr'	**********Unit Test Description********** Name of Tester: Ajit Shrivastava Code File(s) Under Test: IoHwAbstractionUsr.c Code File(s) Version: 5 Module Design Document: N/A Module Design Document Version: N/A Data Dictionary Version: 2 Unit Test Plan Version: 2 Optimization Level: Level 2 Compiler (CodeGen) Version: TMS470_4.9.5 Model Type: Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.31 Total FLASH Used (Bytes): 860 Total RAM Used (Bytes): 28 Total CALS Used (Bytes): 36 Special Test Requirements: Test Date: 12-17-2014 Comments:" NOTE 1 :Changes made in the file Rte_Types.h and adc_regs.h to provide declration to the used variables. NOTE 2 : In “IoHwAb_SlowADCGroupValidity” to have 100% coverage, Out of range value of “DMAData_G_str.SlowADC_Cnt_u16(i)” is taken . As per the Data Dictionary is 3762 so to satisfy “If (DMAData_G_str.SlowADC_Cnt_u16(i) = &HFFFF)” the value is taken as 65535. NOTE 3 : ""CBD_Sandbox_dbg.map"" map file is embedded for reference. " **********

Attributes

Name	Value
Compiler Install Path	$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5
Float Precision	9
InitObjDir	$(PROJECTROOT)\UnitTestEnv\static_build_files\obj
InitSrcDir	$(PROJECTROOT)\UnitTestEnv\static_build_files\src
Linker File	$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	$(ProgramFiles)\pls\UDE 4.0
Time Unit	Cycles
Timer Enabled	false
Timer Prescale	0

Attributes

Name	Value
Timer Resolution	1
UDE Config File	$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg
Workspace File	D:\Synergy_Work_Area\C1XX_IoHwAbstractionUsr\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

Test Case 1: Boundary Test

Specification

```
Performance Metrics (With "None" Instrumentation
and WithPS Environment)

CPU Cycles:

TS1.1 8.00 Cycles
TS1.2 8.00 Cycles
TS1.3 8.00 Cycles
TS1.4 8.00 Cycles
TS1.5 8.00 Cycles
TS1.6 8.00 Cycles
TS1.7 8.00 Cycles
```

Description

Vector Description

TS1.1 (TRUE == DataValid_Cnt_T_Igc)=False
TS1.2 "(TRUE == DataValid_Cnt_T_Igc)=True;
(Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=True;
(DiagFailed_m(IoHwAb_ADCVrefErrorAcc_Cnt_M_u16, k_VrefOORDiag_Cnt_str) == D_TRUE_CNT_LGC)=True
"

TS1.3 "(TRUE == DataValid_Cnt_T_Igc)=True;
(Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=True;
(DiagFailed_m(IoHwAb_ADCVrefErrorAcc_Cnt_M_u16, k_VrefOORDiag_Cnt_str) == D_TRUE_CNT_LGC)=False;
"

TS1.4 "(TRUE == DataValid_Cnt_T_Igc)=True;
(Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=False;
(Vref_Volt_M_f32 < k_VrefMin_Volts_f32)=True;
(DiagFailed_m(IoHwAb_ADCVrefErrorAcc_Cnt_M_u16, k_VrefOORDiag_Cnt_str) == D_TRUE_CNT_LGC)=True;
"

TS1.5 "(TRUE == DataValid_Cnt_T_Igc)=True;
(Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=False;
(Vref_Volt_M_f32 < k_VrefMin_Volts_f32)=True;
(DiagFailed_m(IoHwAb_ADCVrefErrorAcc_Cnt_M_u16, k_VrefOORDiag_Cnt_str) == D_TRUE_CNT_LGC)=False;
"

TS1.6 "(TRUE == DataValid_Cnt_T_Igc)=True;
(Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=False;
(Vref_Volt_M_f32 < k_VrefMin_Volts_f32)=False;
(DiagFailed_m(IoHwAb_ADCVrefErrorAcc_Cnt_M_u16, k_VrefOORDiag_Cnt_str) == D_TRUE_CNT_LGC)=True;
"

TS1.7 "(TRUE == DataValid_Cnt_T_Igc)=True;
(Vref_Volt_M_f32 > k_VrefMax_Volts_f32)=False;
(Vref_Volt_M_f32 < k_VrefMin_Volts_f32)=False;
(DiagFailed_m(IoHwAb_ADCVrefErrorAcc_Cnt_M_u16, k_VrefOORDiag_Cnt_str) == D_TRUE_CNT_LGC)=False;
"

Test Step 1.1 (Repeat Count = 1)

Name	Input Value
CDD_CDDDataAccessBfr_Cnt_G_u16	0
DMAData_G_str.FastADC_Cnt_u16[0]	0
DMAData_G_str.FastADC_Cnt_u16[1]	0
DMAData_G_str.FastADC_Cnt_u16[2]	0
DMAData_G_str.FastADC_Cnt_u16[3]	0

Name	Actual Value	Expected Value	Result
CDD_SysCVSwitchADC_Cnt_G_u16[0]	0	0	✔
CDD_SysCVSwitchADC_Cnt_G_u16[1]	0	0	✔

Test Step 1.2 (Repeat Count = 1)

Prolog

```
CDD_SysCVSwitchADC_Cnt_G_u16[0]=0;
CDD_SysCVSwitchADC_Cnt_G_u16[1]=0;
```

Name	Input Value
CDD_CDDDataAccessBfr_Cnt_G_u16	1
DMAData_G_str.FastADC_Cnt_u16[0]	65535
DMAData_G_str.FastADC_Cnt_u16[1]	65535
DMAData_G_str.FastADC_Cnt_u16[2]	65535
DMAData_G_str.FastADC_Cnt_u16[3]	65535

Name	Actual Value	Expected Value	Result
CDD_SysCVSwitchADC_Cnt_G_u16[0]	0	0	✔
CDD_SysCVSwitchADC_Cnt_G_u16[1]	65535	65535	✔

Test Step 1.3 (Repeat Count = 1)

Prolog

```
CDD_SysCVSwitchADC_Cnt_G_u16[0]=0;
CDD_SysCVSwitchADC_Cnt_G_u16[1]=0;
```

Name	Input Value
CDD_CDDDataAccessBfr_Cnt_G_u16	0
DMAData_G_str.FastADC_Cnt_u16[0]	0
DMAData_G_str.FastADC_Cnt_u16[1]	0

Name	Input Value
DMAData_G_str.FastADC_Cnt_u16[2]	0
DMAData_G_str.FastADC_Cnt_u16[3]	0

Name	Actual Value	Expected Value	Result
CDD_SysCVSwitchADC_Cnt_G_u16[0]	0	0	✔
CDD_SysCVSwitchADC_Cnt_G_u16[1]	0	0	✔

Test Step 1.4 (Repeat Count = 1) ✔

Prolog

```
CDD_SysCVSwitchADC_Cnt_G_u16[0]=0;
CDD_SysCVSwitchADC_Cnt_G_u16[1]=0;
```

Name	Input Value
CDD_CDDDataAccessBfr_Cnt_G_u16	1
DMAData_G_str.FastADC_Cnt_u16[0]	65535
DMAData_G_str.FastADC_Cnt_u16[1]	65535
DMAData_G_str.FastADC_Cnt_u16[2]	65535
DMAData_G_str.FastADC_Cnt_u16[3]	65535

Name	Actual Value	Expected Value	Result
CDD_SysCVSwitchADC_Cnt_G_u16[0]	0	0	✔
CDD_SysCVSwitchADC_Cnt_G_u16[1]	65535	65535	✔

Test Step 1.5 (Repeat Count = 1) ✔

Prolog

```
CDD_SysCVSwitchADC_Cnt_G_u16[0]=0;
CDD_SysCVSwitchADC_Cnt_G_u16[1]=0;
```

Name	Input Value
CDD_CDDDataAccessBfr_Cnt_G_u16	0
DMAData_G_str.FastADC_Cnt_u16[0]	100
DMAData_G_str.FastADC_Cnt_u16[1]	200
DMAData_G_str.FastADC_Cnt_u16[2]	300
DMAData_G_str.FastADC_Cnt_u16[3]	400

Name	Actual Value	Expected Value	Result
CDD_SysCVSwitchADC_Cnt_G_u16[0]	400	400	✔
CDD_SysCVSwitchADC_Cnt_G_u16[1]	0	0	✔

Test Step 1.6 (Repeat Count = 1) ✔

Prolog

```
CDD_SysCVSwitchADC_Cnt_G_u16[0]=0;
CDD_SysCVSwitchADC_Cnt_G_u16[1]=0;
```

Name	Input Value
CDD_CDDDataAccessBfr_Cnt_G_u16	0
DMAData_G_str.FastADC_Cnt_u16[0]	500
DMAData_G_str.FastADC_Cnt_u16[1]	600
DMAData_G_str.FastADC_Cnt_u16[2]	700
DMAData_G_str.FastADC_Cnt_u16[3]	800

Name	Actual Value	Expected Value	Result
CDD_SysCVSwitchADC_Cnt_G_u16[0]	800	800	✔
CDD_SysCVSwitchADC_Cnt_G_u16[1]	0	0	✔

Test Step 1.7 (Repeat Count = 1) ✔

Prolog

```
CDD_SysCVSwitchADC_Cnt_G_u16[0]=0;
CDD_SysCVSwitchADC_Cnt_G_u16[1]=0;
```

Name	Input Value
CDD_CDDDataAccessBfr_Cnt_G_u16	1
DMAData_G_str.FastADC_Cnt_u16[0]	1000
DMAData_G_str.FastADC_Cnt_u16[1]	2000
DMAData_G_str.FastADC_Cnt_u16[2]	3000
DMAData_G_str.FastADC_Cnt_u16[3]	4000

Name	Actual Value	Expected Value	Result
CDD_SysCVSwitchADC_Cnt_G_u16[0]	0	0	✔
CDD_SysCVSwitchADC_Cnt_G_u16[1]	4000	4000	✔