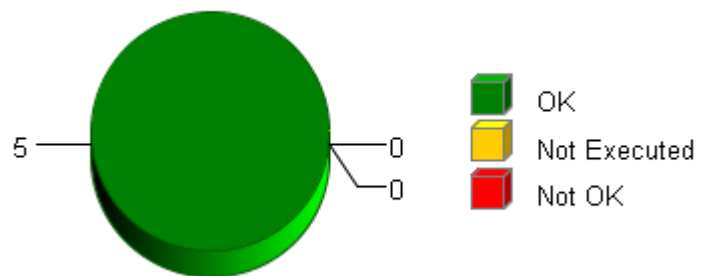


## Summary

Total Test Objects: 5  
Successful: 5  
Failed: 0  
Not Executed: 0  
Date: 2016-06-02  
Time: 10:40:23+0530

## Overall Test Object Results (including Coverage)



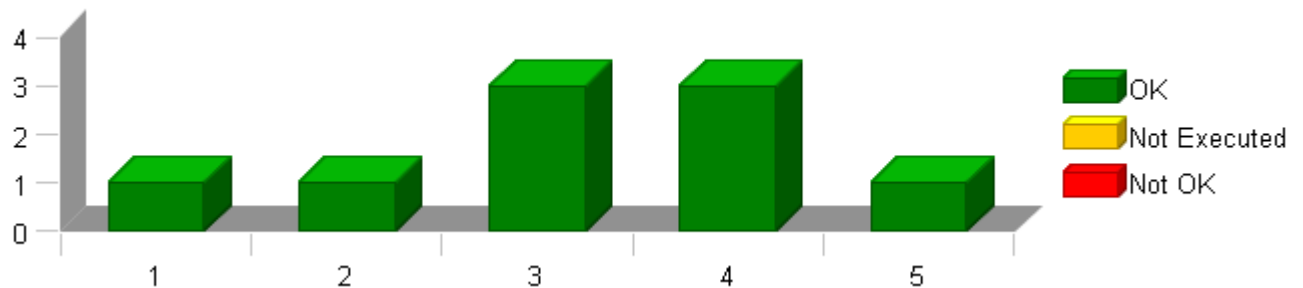
## Selected Project Items

Test Object "UnitTest/IoHwAbstractionUsr/IoHwAb\_CaptureADC"  
Test Object "UnitTest/IoHwAbstractionUsr/IoHwAb\_Init"  
Test Object "UnitTest/IoHwAbstractionUsr/IoHwAb\_ReadAdc"  
Test Object "UnitTest/IoHwAbstractionUsr/IoHwAb\_SlowADCGroupValidity"  
Test Object "UnitTest/IoHwAbstractionUsr/IoHwAb\_StartAdc"

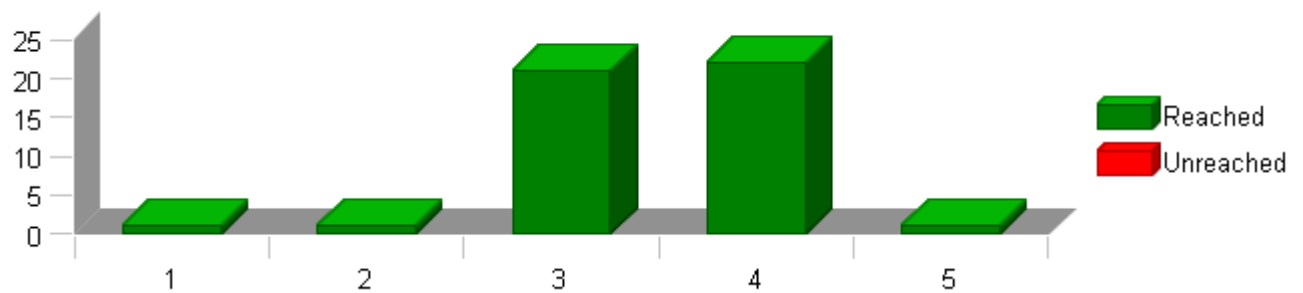
## Used Test Environments

TI TMS 570 PLS UDE (Default)

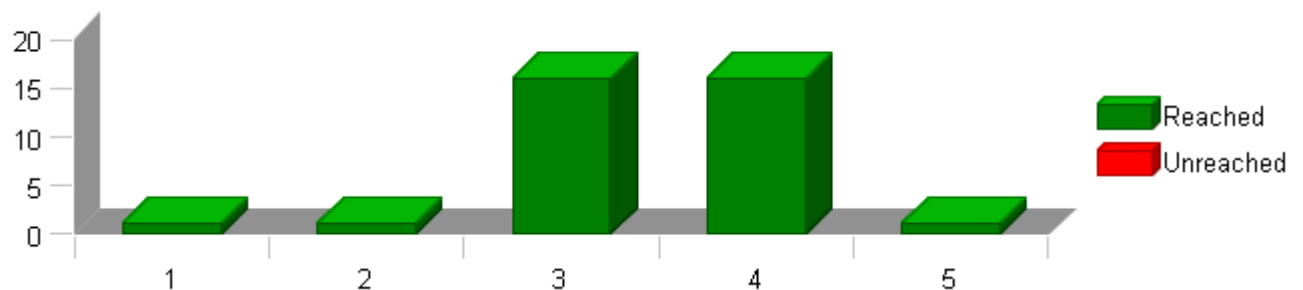
## Test Case Results for Each Test Object (without Coverage)



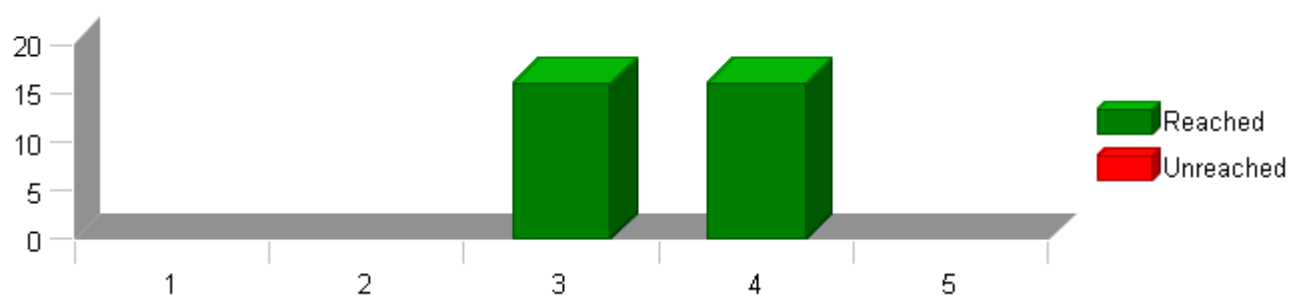
The table above shows each test object on the x axis and the number of test cases of the respective test object on the y axis. Each bar is divided into passed, not executed and failed test cases. The test case results do not take into account any coverage result (i.e. if all test cases of a test object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

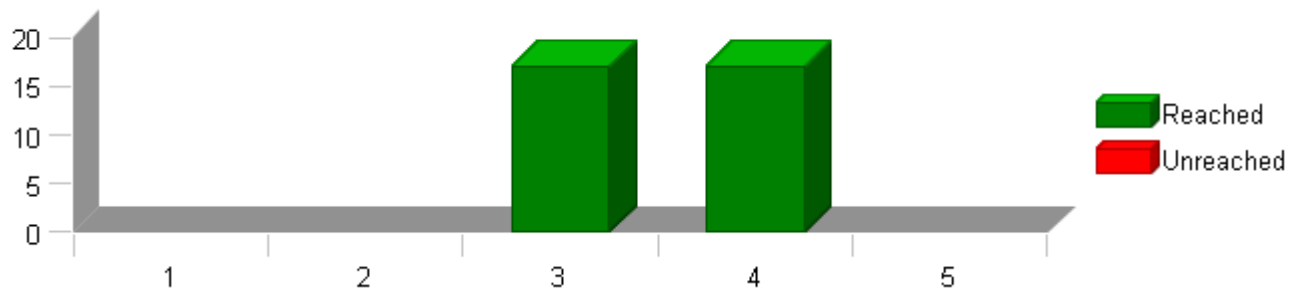
The table above shows each test object on the x axis and the number of branches of the respective test object on the y axis. Each bar is divided into reached branches (i.e. branches that have been executed during the test) and unreached branches.

**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.

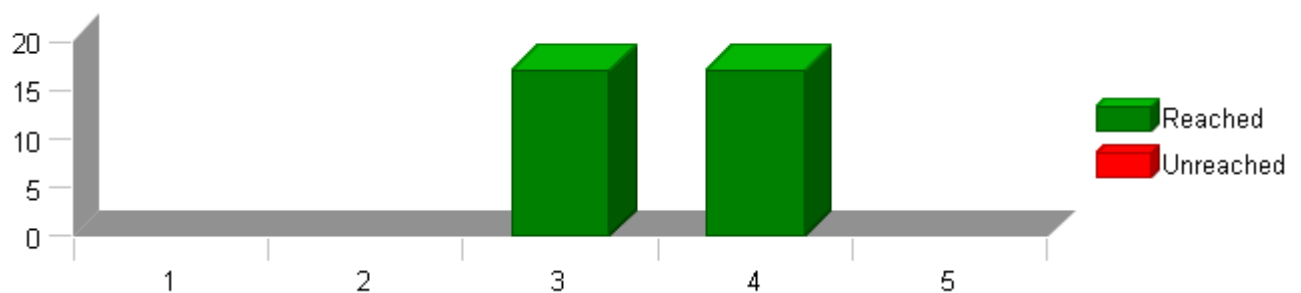
## MC/DC Coverage: Total Condition Combinations for Each Test Object



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 OVERVIEW REPORT

2016-06-02, 10:40:23+0530

Project IoHwAbstractionUsr\_FIASA



### 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_FIASA	100 %	100 %	100 %	100 %	100 %	9 of 9 passed	✓
	UnitTest	100 %	100 %	100 %	100 %	100 %	9 of 9 passed	✓
	IoHwAbstractionUsr	100 %	100 %	100 %	100 %	100 %	9 of 9 passed	✓
1	<a href="#">IoHwAb_CaptureADC</a>	100 %	100 %	-	-	-	1 of 1 passed	✓
2	<a href="#">IoHwAb_Init</a>	100 %	100 %	-	-	-	1 of 1 passed	✓
3	<a href="#">IoHwAb_ReadAdc</a>	100 %	100 %	100 %	100 %	100 %	3 of 3 passed	✓
4	<a href="#">IoHwAb_SlowADCGroupValidity</a>	100 %	100 %	100 %	100 %	100 %	3 of 3 passed	✓
5	<a href="#">IoHwAb_StartAdc</a>	100 %	100 %	-	-	-	1 of 1 passed	✓

# TEST DETAILS REPORT

2016-06-02, 10:36:40+0530

IoHwAb\_StartAdc



Project	IoHwAbstractionUsr_FIASA
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\IoHwAbstractionUsr_FIASA
Configuration File	D:\Synergy_Work_Area\IoHwAbstractionUsr_FIASA\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	-D_DATA_ACCESS= -Dconst= -I\$(PROJECTROOT)\IoHwAbstractionUsr\utpl\contract -I\$(PROJECTROOT)\IoHwAbstractionUsr\include -I\$(PROJECTROOT)\NxtLib\include -I\$(PROJECTROOT)\StdDef\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include

## Comments/Description/Specification

Name	Text
Module 'IoHwAbstractionUsr'	*****Unit Test Information***** Name of Tester:Sarika Natu Code File(s) Under Test:IoHwAbstractionUsr.c Code File(s) Version:5 Module Design Document:NA Module Design Document Version:NA Data Dictionary Version: 4 Unit Test Plan Version:1 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 1.32 Total FLASH Used (Bytes):1020 Total RAM Used (Bytes):50 Total CALS Used (Bytes):32 Special Test Requirements:NA Test Date:6/2/2016 Comments:"Note 1: Inline functions defined in ""GlobalMacro.h"" are not unit tested.  Note 2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference.  Note 3:Output Variables Batt_Volt_M_f32 and Batt_Volt_f32 are going out of range.  Note 4: In function ""IoHwAb_SlowADCGroupValidity"", extra code is added in VBA, to exit the while loop and to replicate the usercode functionality of TESSY. " *****

## 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	\$(TESSY_SYSPATH)\compiler\ti\tms470\sys_link.cmd
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 4.4
Time Unit	cycles
Timer Enabled	False

# TEST DETAILS REPORT

2016-06-02, 10:36:40+0530

IoHwAb\_StartAdc



Attributes	
Name	Value
Timer Prescale	0
Timer Resolution	1
UDE Config File	\$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg
Workspace File	D:\Synergy_Work_Area\IoHwAbstractionUsr_FIASA\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

## Test Case 1: Boundary Test ✓

**Specification** Performance Metrics (With "None" Instrumentation and WithPS Environment)  
CPU Cycles:

TS 1.1 11Cycles

**Description** Vector Description:

TS1.1 Test case to check output

## Test Step 1.1 (Repeat Count = 1) ✓

Name	Input Value		
adcREG1_temp	target_adcREG1_temp		
Name	Actual Value	Expected Value	Result
CDD_ePWM4CMPB_Cnt_G_u16	100	100	✓
target_adcREG1_temp.GxINTFLG[0]	0	0	✓
target_adcREG1_temp.GxINTFLG[1]	0	0	✓
target_adcREG1_temp.GxINTFLG[2]	8	8	✓

## Test Step Call Trace ✓

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

# TEST DETAILS REPORT



Project	IoHwAbstractionUsr_FIASA
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\IoHwAbstractionUsr_FIASA
Configuration File	D:\Synergy_Work_Area\IoHwAbstractionUsr_FIASA\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	-D_DATA_ACCESS= -Dconst= -I\$(PROJECTROOT)\IoHwAbstractionUsr\utpl\contract -I\$(PROJECTROOT)\IoHwAbstractionUsr\include -I\$(PROJECTROOT)\NxtLib\include -I\$(PROJECTROOT)\StdDef\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include

## Comments/Description/Specification

Name	Text
Module 'IoHwAbstractionUsr'	*****Unit Test Information***** Name of Tester:Sarika Natu Code File(s) Under Test:IoHwAbstractionUsr.c Code File(s) Version:5 Module Design Document:NA Module Design Document Version:NA Data Dictionary Version: 4 Unit Test Plan Version:1 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 1.32 Total FLASH Used (Bytes):1020 Total RAM Used (Bytes):50 Total CALS Used (Bytes):32 Special Test Requirements:NA Test Date:6/2/2016 Comments:"Note 1: Inline functions defined in ""GlobalMacro.h"" are not unit tested.  Note 2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference.  Note 3:Output Variables Batt_Volt_M_f32 and Batt_Volt_f32 are going out of range.  Note 4: In function ""IoHwAb_SlowADCGroupValidity"", extra code is added in VBA, to exit the while loop and to replicate the usercode functionality of TESSY. " *****

## 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	\$(TESSY_SYSPATH)\compiler\ti\tms470\sys_link.cmd
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 4.4
Time Unit	cycles
Timer Enabled	False



Attributes	
Name	Value
Timer Prescale	0
Timer Resolution	1
UDE Config File	\$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg
Workspace File	D:\Synergy_Work_Area\IoHwAbstractionUsr_FIASA\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

# TEST DETAILS REPORT



## 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  
TS1.8 8.00 Cycles  
TS1.9 8.00 Cycles  
TS1.10 8.00 Cycles  
TS1.11 8.00 Cycles  
TS1.12 8.00 Cycles  
TS1.13 8.00 Cycles  
TS1.14 8.00 Cycles  
TS1.15 8.00 Cycles  
TS1.16 8.00 Cycles  
TS1.17 8.00 Cycles

**Description** Vector Description:

TS1.1All Min  
TS1.2All Max  
TS1.3DMADData\_G\_str.SlowADC\_Cnt\_u16[4]=Min  
TS1.4DMADData\_G\_str.SlowADC\_Cnt\_u16[4]=Max  
TS1.5DMADData\_G\_str.SlowADC\_Cnt\_u16[4]=Pos  
TS1.6BattSwitched\_Volt\_M\_f32=Min  
TS1.7BattSwitched\_Volt\_M\_f32=Max  
TS1.8BattSwitched\_Volt\_M\_f32=Pos  
TS1.9Batt\_Volt\_M\_f32=Min  
TS1.10Batt\_Volt\_M\_f32=Max  
TS1.11Batt\_Volt\_M\_f32=Pos  
TS1.12SysCVSwitch\_Volt\_M\_f32=Min  
TS1.13SysCVSwitch\_Volt\_M\_f32=Max  
TS1.14SysCVSwitch\_Volt\_M\_f32=Pos  
TS1.15Temperature\_Volt\_M\_f32=Min  
TS1.16Temperature\_Volt\_M\_f32=Max  
TS1.17Temperature\_Volt\_M\_f32=Pos

## Test Step 1.1 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	0		
Batt_Volt_M_f32	0		
DMADData_G_str.SlowADC_Cnt_u16[0]	0		
DMADData_G_str.SlowADC_Cnt_u16[1]	0		
DMADData_G_str.SlowADC_Cnt_u16[2]	0		
DMADData_G_str.SlowADC_Cnt_u16[3]	0		
SysCVSwitch_Volt_M_f32	0		
Temperature_Volt_M_f32	0		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712992		
k_VswitchScale_Uls_f32	3.36966991		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0	0	✔
Batt_Volt_M_f32	0	0	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	0	0	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched_Volt_f32	0	0	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch_Volt_f32	0	0	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature_Volt_f32	0	0	✔
SysCVSwitch_Volt_M_f32	0	0	✔
Temperature_Volt_M_f32	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
BattSwitched_Volt_M_f32	31
Batt_Volt_M_f32	31
DMADData_G_str.SlowADC_Cnt_u16[0]	65535
DMADData_G_str.SlowADC_Cnt_u16[1]	65535
DMADData_G_str.SlowADC_Cnt_u16[2]	65535
DMADData_G_str.SlowADC_Cnt_u16[3]	65535

# TEST DETAILS REPORT



Name	Input Value		
SysCVSwitch_Volt_M_f32	31		
Temperature_Volt_M_f32	5		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712992		
k_VswitchScale_Uls_f32	3.36966991		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	16.8483505	16.848341	✓
Batt_Volt_M_f32	33.7356491	33.7356339	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	33.7356491	33.7356339	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched	16.8483505	16.848341	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch	16.8483505	16.848341	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	5	5	✓
SysCVSwitch_Volt_M_f32	16.8483505	16.848341	✓
Temperature_Volt_M_f32	5	5	✓

## Test Step Call Trace

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

## Test Step 1.3 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	16.9843006		
Batt_Volt_M_f32	25.1035995		
DMADData_G_str.SlowADC_Cnt_u16[0]	0		
DMADData_G_str.SlowADC_Cnt_u16[1]	0		
DMADData_G_str.SlowADC_Cnt_u16[2]	0		
DMADData_G_str.SlowADC_Cnt_u16[3]	0		
SysCVSwitch_Volt_M_f32	30.8057003		
Temperature_Volt_M_f32	4.07730007		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712992		
k_VswitchScale_Uls_f32	3.36966991		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0	0	✓
Batt_Volt_M_f32	0	0	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	0	0	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched	0	0	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch	0	0	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	0	0	✓
SysCVSwitch_Volt_M_f32	0	0	✓
Temperature_Volt_M_f32	0	0	✓

## Test Step Call Trace

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

## Test Step 1.4 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	12.3696003		
Batt_Volt_M_f32	1.60839999		
DMADData_G_str.SlowADC_Cnt_u16[0]	65535		
DMADData_G_str.SlowADC_Cnt_u16[1]	65535		
DMADData_G_str.SlowADC_Cnt_u16[2]	65535		
DMADData_G_str.SlowADC_Cnt_u16[3]	65535		
SysCVSwitch_Volt_M_f32	29.8577003		
Temperature_Volt_M_f32	3.36720991		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712992		
k_VswitchScale_Uls_f32	3.36966991		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	16.8483505	16.848341	✓
Batt_Volt_M_f32	33.7356491	33.7356339	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	33.7356491	33.7356339	✓

# TEST DETAILS REPORT



Name	Actual Value	Expected Value	Result
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched_	16.8483505	16.848341	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch_	16.8483505	16.848341	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	5	5	✓
SysCVSwitch_Volt_M_f32	16.8483505	16.848341	✓
Temperature_Volt_M_f32	5	5	✓

## Test Step Call Trace

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

## Test Step 1.5 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	28.5587997		
Batt_Volt_M_f32	16.5764999		
DMADData_G_str.SlowADC_Cnt_u16[0]	1		
DMADData_G_str.SlowADC_Cnt_u16[1]	2		
DMADData_G_str.SlowADC_Cnt_u16[2]	3		
DMADData_G_str.SlowADC_Cnt_u16[3]	4		
SysCVSwitch_Volt_M_f32	8.27009964		
Temperature_Volt_M_f32	4.4580102		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712992		
k_VswitchScale_Uls_f32	3.36966991		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.016457485	0.0164574757	✔
Batt_Volt_M_f32	0.0164765082	0.0164764989	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	0.0164765082	0.0164764989	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched	0.016457485	0.0164574757	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch	0.016457485	0.0164574757	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	0.00122100126	0.00122100103	✔
SysCVSwitch_Volt_M_f32	0.016457485	0.0164574757	✔
Temperature_Volt_M_f32	0.00122100126	0.00122100103	✔

## Test Step Call Trace

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

## Test Step 1.6 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	0		
Batt_Volt_M_f32	24.2248993		
DMADData_G_str.SlowADC_Cnt_u16[0]	15		
DMADData_G_str.SlowADC_Cnt_u16[1]	16		
DMADData_G_str.SlowADC_Cnt_u16[2]	17		
DMADData_G_str.SlowADC_Cnt_u16[3]	18		
SysCVSwitch_Volt_M_f32	26.8668003		
Temperature_Volt_M_f32	1.09467995		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712992		
k_VswitchScale_Uls_f32	3.36966991		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.0740586817	0.0740586445	✔
Batt_Volt_M_f32	0.131812066	0.131811991	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	0.131812066	0.131811991	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched	0.0740586817	0.0740586445	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch	0.0740586817	0.0740586445	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	0.0183150191	0.0183150172	✔
SysCVSwitch_Volt_M_f32	0.0740586817	0.0740586445	✔
Temperature_Volt_M_f32	0.0183150191	0.0183150172	✔

## Test Step Call Trace

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

# TEST DETAILS REPORT



## Test Step 1.7 (Repeat Count = 1) ✓

Name	Input Value		
BattSwitched_Volt_M_f32	31		
Batt_Volt_M_f32	25.6214008		
DMADData_G_str.SlowADC_Cnt_u16[0]	29		
DMADData_G_str.SlowADC_Cnt_u16[1]	30		
DMADData_G_str.SlowADC_Cnt_u16[2]	31		
DMADData_G_str.SlowADC_Cnt_u16[3]	32		
SysCVSwitch_Volt_M_f32	13.0983		
Temperature_Volt_M_f32	1.12269998		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712992		
k_VswitchScale_Uls_f32	3.36966991		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.13165988	0.131659806	✔
Batt_Volt_M_f32	0.24714762	0.247147486	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	0.24714762	0.247147486	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched	0.13165988	0.131659806	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch	0.13165988	0.131659806	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	0.035409037	0.0354090333	✔
SysCVSwitch_Volt_M_f32	0.13165988	0.131659806	✔
Temperature_Volt_M_f32	0.035409037	0.0354090333	✔

## Test Step Call Trace ✓

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

## Test Step 1.8 (Repeat Count = 1) ✓

Name	Input Value		
BattSwitched_Volt_M_f32	15.2539997		
Batt_Volt_M_f32	10.4066		
DMADData_G_str.SlowADC_Cnt_u16[0]	43		
DMADData_G_str.SlowADC_Cnt_u16[1]	44		
DMADData_G_str.SlowADC_Cnt_u16[2]	45		
DMADData_G_str.SlowADC_Cnt_u16[3]	46		
SysCVSwitch_Volt_M_f32	25.7688007		
Temperature_Volt_M_f32	4.36112022		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712992		
k_VswitchScale_Uls_f32	3.36966991		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.189261064	0.189260975	✔
Batt_Volt_M_f32	0.362483174	0.362482995	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	0.362483174	0.362482995	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched	0.189261064	0.189260975	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch	0.189261064	0.189260975	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	0.0525030531	0.0525030531	✔
SysCVSwitch_Volt_M_f32	0.189261064	0.189260975	✔
Temperature_Volt_M_f32	0.0525030531	0.0525030531	✔

## Test Step Call Trace ✓

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

## Test Step 1.9 (Repeat Count = 1) ✓

Name	Input Value
BattSwitched_Volt_M_f32	11.9289999
Batt_Volt_M_f32	0
DMADData_G_str.SlowADC_Cnt_u16[0]	57
DMADData_G_str.SlowADC_Cnt_u16[1]	58
DMADData_G_str.SlowADC_Cnt_u16[2]	59
DMADData_G_str.SlowADC_Cnt_u16[3]	60

# TEST DETAILS REPORT







Name	Input Value		
SysCVSwitch_Volt_M_f32	13.0983		
Temperature_Volt_M_f32	2.77731991		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712992		
k_VswitchScale_Uls_f32	3.36966991		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.246862277	0.246862143	✔
Batt_Volt_M_f32	0.477818757	0.477818489	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	0.477818757	0.477818489	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched_Volt_M_f32	0.246862277	0.246862143	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch_Volt_M_f32	0.246862277	0.246862143	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature_Volt_M_f32	0.0695970729	0.0695970729	✔
SysCVSwitch_Volt_M_f32	0.246862277	0.246862143	✔
Temperature_Volt_M_f32	0.0695970729	0.0695970729	✔

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

Test Step 1.10 (Repeat Count = 1)				✓
Name		Input Value		
BattSwitched_Volt_M_f32		7.42719984		
Batt_Volt_M_f32		31		
DMADData_G_str.SlowADC_Cnt_u16[0]		71		
DMADData_G_str.SlowADC_Cnt_u16[1]		72		
DMADData_G_str.SlowADC_Cnt_u16[2]		73		
DMADData_G_str.SlowADC_Cnt_u16[3]		74		
SysCVSwitch_Volt_M_f32		8.27009964		
Temperature_Volt_M_f32		3.6875		
k_TempSensorOffset_Volt_f32		0		
k_TempSensorScale_Uls_f32		1		
k_VbattScale_Uls_f32		6.74712992		
k_VswitchScale_Uls_f32		3.36966991		
Name		Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32		0.304463476	0.304463297	✓
Batt_Volt_M_f32		0.593154311	0.593153954	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32		0.593154311	0.593153954	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched_Volt_M_f32		0.304463476	0.304463297	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch_Volt_M_f32		0.304463476	0.304463297	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature_Volt_M_f32		0.086691089	0.086691089	✓
SysCVSwitch_Volt_M_f32		0.304463476	0.304463297	✓
Temperature_Volt_M_f32		0.086691089	0.086691089	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

Test Step 1.11 (Repeat Count = 1)				
Name		Input Value		
BattSwitched_Volt_M_f32		5.83570004		
Batt_Volt_M_f32		5.25400019		
DMADData_G_str.SlowADC_Cnt_u16[0]		85		
DMADData_G_str.SlowADC_Cnt_u16[1]		86		
DMADData_G_str.SlowADC_Cnt_u16[2]		87		
DMADData_G_str.SlowADC_Cnt_u16[3]		88		
SysCVSwitch_Volt_M_f32		5.58349991		
Temperature_Volt_M_f32		0.567834973		
k_TempSensorOffset_Volt_f32		0		
k_TempSensorScale_Uls_f32		1		
k_VbattScale_Uls_f32		6.74712992		
k_VswitchScale_Uls_f32		3.36966991		
Name		Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32		0.362064466	0.362064481	
Batt_Volt_M_f32		0.708489835	0.708489478	
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32		0.708489835	0.708489478	

# TEST DETAILS REPORT



Name	Actual Value	Expected Value	Result
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched_	0.36206466	0.362064481	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch_	0.36206466	0.362064481	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	0.103785105	0.103785105	✓
SysCVSwitch_Volt_M_f32	0.36206466	0.362064481	✓
Temperature_Volt_M_f32	0.103785105	0.103785105	✓

## Test Step Call Trace

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

## Test Step 1.12 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	13.7133999
Batt_Volt_M_f32	29.9330006
DMADData_G_str.SlowADC_Cnt_u16[0]	99
DMADData_G_str.SlowADC_Cnt_u16[1]	100
DMADData_G_str.SlowADC_Cnt_u16[2]	101
DMADData_G_str.SlowADC_Cnt_u16[3]	102
SysCVSwitch_Volt_M_f32	0
Temperature_Volt_M_f32	2.75803995
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712992
k_VswitchScale_Uls_f32	3.36966991

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.419665873	0.419665635	✓
Batt_Volt_M_f32	0.823825419	0.823824942	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	0.823825419	0.823824942	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched_	0.419665873	0.419665635	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch_	0.419665873	0.419665635	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	0.120879129	0.120879121	✓
SysCVSwitch_Volt_M_f32	0.419665873	0.419665635	✓
Temperature_Volt_M_f32	0.120879129	0.120879121	✓

## Test Step Call Trace

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

## Test Step 1.13 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	26.3334999
Batt_Volt_M_f32	21.7457008
DMADData_G_str.SlowADC_Cnt_u16[0]	113
DMADData_G_str.SlowADC_Cnt_u16[1]	114
DMADData_G_str.SlowADC_Cnt_u16[2]	115
DMADData_G_str.SlowADC_Cnt_u16[3]	116
SysCVSwitch_Volt_M_f32	31
Temperature_Volt_M_f32	4.72224998
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712992
k_VswitchScale_Uls_f32	3.36966991

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.477267057	0.477266818	✓
Batt_Volt_M_f32	0.939161003	0.939160466	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	0.939161003	0.939160466	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched_	0.477267057	0.477266818	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch_	0.477267057	0.477266818	✓
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	0.137973145	0.137973145	✓
SysCVSwitch_Volt_M_f32	0.477267057	0.477266818	✓
Temperature_Volt_M_f32	0.137973145	0.137973145	✓

## Test Step Call Trace

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

# TEST DETAILS REPORT



Test Step 1.14 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	13.026			
Batt_Volt_M_f32	14.3886003			
DMADData_G_str.SlowADC_Cnt_u16[0]	127			
DMADData_G_str.SlowADC_Cnt_u16[1]	128			
DMADData_G_str.SlowADC_Cnt_u16[2]	129			
DMADData_G_str.SlowADC_Cnt_u16[3]	130			
SysCVSwitch_Volt_M_f32	17.2539997			
Temperature_Volt_M_f32	4.18861008			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712992			
k_VswitchScale_Uls_f32	3.36966991			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	0.53486824	0.534868002	✓	
Batt_Volt_M_f32	1.05449653	1.05449593	✓	
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	1.05449653	1.05449593	✓	
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched	0.53486824	0.534868002	✓	
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch	0.53486824	0.534868002	✓	
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	0.155067161	0.155067161	✓	
SysCVSwitch_Volt_M_f32	0.53486824	0.534868002	✓	
Temperature_Volt_M_f32	0.155067161	0.155067161	✓	

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

Test Step 1.15 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	11.3526001			
Batt_Volt_M_f32	9.02960014			
DMADData_G_str.SlowADC_Cnt_u16[0]	141			
DMADData_G_str.SlowADC_Cnt_u16[1]	142			
DMADData_G_str.SlowADC_Cnt_u16[2]	143			
DMADData_G_str.SlowADC_Cnt_u16[3]	144			
SysCVSwitch_Volt_M_f32	22.1615009			
Temperature_Volt_M_f32	0			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712992			
k_VswitchScale_Uls_f32	3.36966991			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	0.592469454	0.592469156	✓	
Batt_Volt_M_f32	1.16983211	1.1698314	✓	
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	1.16983211	1.1698314	✓	
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched	0.592469454	0.592469156	✓	
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch	0.592469454	0.592469156	✓	
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature/	0.172161177	0.172161177	✓	
SysCVSwitch_Volt_M_f32	0.592469454	0.592469156	✓	
Temperature_Volt_M_f32	0.172161177	0.172161177	✓	

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

Test Step 1.16 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	17.9727993			
Batt_Volt_M_f32	17.9594002			
DMADData_G_str.SlowADC_Cnt_u16[0]	155			
DMADData_G_str.SlowADC_Cnt_u16[1]	156			
DMADData_G_str.SlowADC_Cnt_u16[2]	157			
DMADData_G_str.SlowADC_Cnt_u16[3]	158			



# TEST DETAILS REPORT



Name	Input Value		
SysCVSwitch_Volt_M_f32	3.53239989		
Temperature_Volt_M_f32	5		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712992		
k_VswitchScale_Uls_f32	3.36966991		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.650070667	0.65007031	✔
Batt_Volt_M_f32	1.28516757	1.28516698	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	1.28516757	1.28516698	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched_Volt_M_f32	0.650070667	0.65007031	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch_Volt_M_f32	0.650070667	0.65007031	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature_Volt_M_f32	0.189255193	0.189255193	✔
SysCVSwitch_Volt_M_f32	0.650070667	0.65007031	✔
Temperature_Volt_M_f32	0.189255193	0.189255193	✔

## Test Step Call Trace

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

## Test Step 1.17 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	11.8743		
Batt_Volt_M_f32	10.9239998		
DMADData_G_str.SlowADC_Cnt_u16[0]	169		
DMADData_G_str.SlowADC_Cnt_u16[1]	170		
DMADData_G_str.SlowADC_Cnt_u16[2]	171		
DMADData_G_str.SlowADC_Cnt_u16[3]	172		
SysCVSwitch_Volt_M_f32	3.51160002		
Temperature_Volt_M_f32	2.25399995		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712992		
k_VswitchScale_Uls_f32	3.36966991		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.707671821	0.707671463	✔
Batt_Volt_M_f32	1.40050316	1.40050244	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Batt_Volt_f32	1.40050316	1.40050244	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_BattSwitched_Volt_M_f32	0.707671821	0.707671463	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_SysCVSwitch_Volt_M_f32	0.707671821	0.707671463	✔
Rte_Task_Init_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_Init.Rte_Temperature_Volt_M_f32	0.206349209	0.206349209	✔
SysCVSwitch_Volt_M_f32	0.707671821	0.707671463	✔
Temperature_Volt_M_f32	0.206349209	0.206349209	✔

## Test Step Call Trace

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



IoHwAbstractionUsr\_FIASA

IoHwAbstractionUsr

IoHwAb\_CaptureADC

Timer Prescale	0
Timer Resolution	1
UDE Config File	\$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg
Workspace File	D:\Synergy_Work_Area\IoHwAbstractionUsr_FIASA\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

Performance Metrics (With "None" Instrumentation  
and WithPS Environment)  
CPU Cycles:

TS 1.1 15 Cycles  
TS 1.2 15 Cycles  
TS 1.3 15 Cycles  
TS 1.4 15 Cycles  
TS 1.5 15 Cycles  
TS 1.6 15 Cycles  
TS 1.7 15 Cycles

Vector Description:

TS1.1All Min  
TS1.2All Max  
TS1.3DMADData\_G\_str.FastADC\_Cnt\_u16[12]=Min  
TS1.4DMADData\_G\_str.FastADC\_Cnt\_u16[12]=Max  
TS1.5DMADData\_G\_str.FastADC\_Cnt\_u16[12]=Pos  
TS1.6CDD\_CDDDataAccessBfr\_Cnt\_G\_u16=Min  
TS1.7CDD\_CDDDataAccessBfr\_Cnt\_G\_u16=Max

					✓
CDD_CDDDataAccessBfr_Cnt_G_u16	0				
CDD_SysCVSwitchADC_Cnt_G_u16[0]	0				
CDD_SysCVSwitchADC_Cnt_G_u16[1]	0				
DMADData_G_str.FastADC_Cnt_u16[0]	0				
DMADData_G_str.FastADC_Cnt_u16[1]	0				
DMADData_G_str.FastADC_Cnt_u16[2]	0				
DMADData_G_str.FastADC_Cnt_u16[3]	0				
CDD_SysCVSwitchADC_Cnt_G_u16[0]	0	0			✓
CDD_SysCVSwitchADC_Cnt_G_u16[1]	0	0			✓

#### Test Step Call Trace

*none*	0	*** No Call Expected ***	0	✓
--------	---	--------------------------	---	---

					✓
CDD_CDDDataAccessBfr_Cnt_G_u16	1				
CDD_SysCVSwitchADC_Cnt_G_u16[0]	65535				
CDD_SysCVSwitchADC_Cnt_G_u16[1]	65535				
DMADData_G_str.FastADC_Cnt_u16[0]	65535				
DMADData_G_str.FastADC_Cnt_u16[1]	65535				
DMADData_G_str.FastADC_Cnt_u16[2]	65535				
DMADData_G_str.FastADC_Cnt_u16[3]	65535				
CDD_SysCVSwitchADC_Cnt_G_u16[0]	65535	65535			✓
CDD_SysCVSwitchADC_Cnt_G_u16[1]	65535	65535			✓

#### Test Step Call Trace

*none*	0	*** No Call Expected ***	0	✓
--------	---	--------------------------	---	---

					✓
CDD_CDDDataAccessBfr_Cnt_G_u16	0				
CDD_SysCVSwitchADC_Cnt_G_u16[0]	1235				
CDD_SysCVSwitchADC_Cnt_G_u16[1]	5825				
DMADData_G_str.FastADC_Cnt_u16[0]	0				
DMADData_G_str.FastADC_Cnt_u16[1]	0				
DMADData_G_str.FastADC_Cnt_u16[2]	0				
DMADData_G_str.FastADC_Cnt_u16[3]	0				
CDD_SysCVSwitchADC_Cnt_G_u16[0]	0	0			✓
CDD_SysCVSwitchADC_Cnt_G_u16[1]	5825	5825			✓

## Test Step Call Trace

*none*	0	*** No Call Expected ***	0	✓
--------	---	--------------------------	---	---

CDD_CDDDataAccessBfr_Cnt_G_u16	1			
CDD_SysCVSwitchADC_Cnt_G_u16[0]	3526			
CDD_SysCVSwitchADC_Cnt_G_u16[1]	6582			
DMADData_G_str.FastADC_Cnt_u16[0]	65535			
DMADData_G_str.FastADC_Cnt_u16[1]	65535			
DMADData_G_str.FastADC_Cnt_u16[2]	65535			
DMADData_G_str.FastADC_Cnt_u16[3]	65535			
CDD_SysCVSwitchADC_Cnt_G_u16[0]	3526	3526		✓
CDD_SysCVSwitchADC_Cnt_G_u16[1]	65535	65535		✓

## Test Step Call Trace

*none*	0	*** No Call Expected ***	0	✓
--------	---	--------------------------	---	---

CDD_CDDDataAccessBfr_Cnt_G_u16	0			
CDD_SysCVSwitchADC_Cnt_G_u16[0]	8795			
CDD_SysCVSwitchADC_Cnt_G_u16[1]	12542			
DMADData_G_str.FastADC_Cnt_u16[0]	1			
DMADData_G_str.FastADC_Cnt_u16[1]	2			
DMADData_G_str.FastADC_Cnt_u16[2]	3			
DMADData_G_str.FastADC_Cnt_u16[3]	4			
CDD_SysCVSwitchADC_Cnt_G_u16[0]	4	4		✓
CDD_SysCVSwitchADC_Cnt_G_u16[1]	12542	12542		✓

## Test Step Call Trace

*none*	0	*** No Call Expected ***	0	✓
--------	---	--------------------------	---	---

CDD_CDDDataAccessBfr_Cnt_G_u16	0			
CDD_SysCVSwitchADC_Cnt_G_u16[0]	15822			
CDD_SysCVSwitchADC_Cnt_G_u16[1]	25685			
DMADData_G_str.FastADC_Cnt_u16[0]	43550			
DMADData_G_str.FastADC_Cnt_u16[1]	3171			
DMADData_G_str.FastADC_Cnt_u16[2]	39909			
DMADData_G_str.FastADC_Cnt_u16[3]	27403			
CDD_SysCVSwitchADC_Cnt_G_u16[0]	27403	27403		✓
CDD_SysCVSwitchADC_Cnt_G_u16[1]	25685	25685		✓

## Test Step Call Trace

*none*	0	*** No Call Expected ***	0	✓
--------	---	--------------------------	---	---

CDD_CDDDataAccessBfr_Cnt_G_u16	1			
CDD_SysCVSwitchADC_Cnt_G_u16[0]	24862			
CDD_SysCVSwitchADC_Cnt_G_u16[1]	45855			

## IoHwAb\_CaptureADC

DMADData_G_str.FastADC_Cnt_u16[0]	17739		
DMADData_G_str.FastADC_Cnt_u16[1]	16937		
DMADData_G_str.FastADC_Cnt_u16[2]	33551		
DMADData_G_str.FastADC_Cnt_u16[3]	43823		
CDD_SysCVSwitchADC_Cnt_G_u16[0]	24862	24862	✓
CDD_SysCVSwitchADC_Cnt_G_u16[1]	43823	43823	✓

## Test Step Call Trace

*none*	0	*** No Call Expected ***	0	✓
--------	---	--------------------------	---	---

# TEST DETAILS REPORT

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IoHwAb\_SlowADCGroupValidity



Project	
Module	
Test Object	

## Instrumentation: Test Object Only

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

## Statistics

Total Testcases	
Successful	✓
Failed	
Not Executed	

## Module Properties

Project Root Directory	
Configuration File	
Target Environment	
Kind of Test	
Linker Options	
Source File(s)	
File	
Compiler Options	

## Comments/Description/Specification

Name	Text

## 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	\$(TESSY_SYSPATH)\compiler\ti\tms470\sys_link.cmd

# TEST DETAILS REPORT

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IoHwAb\_SlowADCGroupValidity



Attributes	
Name	Value
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 4.4
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\IoHwAbstractionUsr_FIASA\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP



# TEST DETAILS REPORT

IoHwAb\_SlowADCGroupValidity

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## Test Case 1: Metrics Test

**Specification** Performance Metrics (With "None" Instrumentation and WithPS Environment)  
CPU Cycles:

TS 1.1 3194.00 Cycles  
TS 1.2 3916.00 Cycles

**Description**

### Test Step 1.1 (Repeat Count = 1)

Name	Input Value		
Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

### Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
				✓
				✓

### Test Step 1.2 (Repeat Count = 1)

Name	Input Value		
Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

### Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
				✓
				✓

# TEST DETAILS REPORT

IoHwAb\_SlowADCGroupValidity

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## Test Case 2: Boundary Test

**Specification** Performance Metrics (With "None" Instrumentation and WithPS Environment)  
CPU Cycles:

TS 2.1 3316.00 Cycles  
TS 2.2 5267.00 Cycles  
TS 2.3 3091.00 Cycles  
TS 2.4 3158.00 Cycles  
TS 2.5 3106.00 Cycles  
TS 2.6 3052.00 Cycles  
TS 2.7 3868.00 Cycles  
TS 2.8 3073.00 Cycles  
TS 2.9 3074.00 Cycles  
TS 2.10 3074.00 Cycles  
TS 2.11 3079.00 Cycles  
TS 2.12 3079.00 Cycles  
TS 2.13 3097.00 Cycles  
TS 2.14 5207.00 Cycles  
TS 2.15 3084.00 Cycles  
TS 2.16 3071.00 Cycles  
TS 2.17 3058.00 Cycles  
TS 2.18 3054.00 Cycles  
TS 2.19 3055.00 Cycles  
TS 2.20 3060.00 Cycles  
TS 2.21 5662.00 Cycles  
TS 2.22 3060.00 Cycles  
TS 2.23 3045.00 Cycles  
TS 2.24 3045.00 Cycles  
TS 2.25 5142.00 Cycles  
TS 2.26 3047.00 Cycles

**Description**

## Test Step 2.1 (Repeat Count = 1)

Name	Input Value		
Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
				✓
				✓

# TEST DETAILS REPORT

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## Test Step 2.2 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

## Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
				✓
				✓
				✓
				✓
				✓
				✓
				✓

## Test Step 2.3 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

## Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
				✓
				✓

## Test Step 2.4 (Repeat Count = 1) ✓

Name	Input Value

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Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

## Test Step 2.5 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

## Test Step 2.6 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

# TEST DETAILS REPORT

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IoHwAb\_SlowADCGroupValidity



Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

Test Step 2.7 (Repeat Count = 1)					✓
Name		Input Value			
Name	Actual Value	Expected Value	Result		
					✓
					✓
					✓
					✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

Test Step 2.8 (Repeat Count = 1)					✓
Name		Input Value			
Name	Actual Value	Expected Value	Result		
					✓
					✓
					✓
					✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

Test Step 2.9 (Repeat Count = 1)					✓
Name		Input Value			

# TEST DETAILS REPORT

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IoHwAb\_SlowADCGroupValidity



Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

## Test Step 2.10 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

## Test Step 2.11 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

# TEST DETAILS REPORT

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IoHwAb\_SlowADCGroupValidity



## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
				✓
				✓

## Test Step 2.12 (Repeat Count = 1)

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
				✓
				✓

## Test Step 2.13 (Repeat Count = 1)

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
				✓
				✓

## Test Step 2.14 (Repeat Count = 1)

Name	Input Value

*IoHwAb\_SlowADCGroupValidity*

[illegible]

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

Test Step 2.16 (Repeat Count = 1)				✓
Name		Input Value		
Name		Actual Value	Expected Value	Result
				✓
				✓
				✓



# TEST DETAILS REPORT

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Name	Actual Value	Expected Value	Result
			✓
			✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

## Test Step 2.17 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

## Test Step 2.18 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

## Test Step 2.19 (Repeat Count = 1) ✓

Name	Input Value

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IoHwAb\_SlowADCGroupValidity

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

Test Step 2.20 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

Test Step 2.21 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

# TEST DETAILS REPORT

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IoHwAb\_SlowADCGroupValidity



Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
				✓
				✓
				✓
				✓
				✓
				✓
				✓

Test Step 2.22 (Repeat Count = 1)			
Name	Input Value		
Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
				✓
				✓

Test Step 2.23 (Repeat Count = 1)			
Name	Input Value		
Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
				✓
				✓

# TEST DETAILS REPORT

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IoHwAb\_SlowADCGroupValidity



## Test Step 2.24 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

## Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
				✓
				✓

## Test Step 2.25 (Repeat Count = 1) ✓

Name	Input Value

Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

## Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
				✓
				✓
				✓
				✓
				✓
				✓
				✓

## Test Step 2.26 (Repeat Count = 1) ✓

Name	Input Value

# TEST DETAILS REPORT

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IoHwAb\_SlowADCGroupValidity



Name	Input Value		
Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

## Test Case 3: Path Test ✓

**Specification** Performance Metrics (With "None" Instrumentation and WithPS Environment)  
CPU Cycles:  
  
TS 3.1 3226.00 Cycles  
TS 3.2 5231.00 Cycles  
TS 3.3 3229.00 Cycles  
TS 3.4 3984.00 Cycles

**Description**

## Test Step 3.1 (Repeat Count = 1) ✓

Name	Input Value		
Name	Actual Value	Expected Value	Result
			✓
			✓
			✓
			✓

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
					✓
					✓

## Test Step 3.2 (Repeat Count = 1) ✓

Name	Input Value		

*IoHwAb\_SlowADCGroupValidity*

[illegible]

TEST DETAILS REPORT

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IoHwAb\_SlowADCGroupValidity

Name		Input Value		
Name	Actual Value	Expected Value	Result	
			✓	
			✓	
			✓	
			✓	

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
				✓	
				✓	

# TEST DETAILS REPORT

2016-06-02, 10:39:08+0530

IoHwAb\_ReadAdc



Project	IoHwAbstractionUsr_FIASA
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\IoHwAbstractionUsr_FIASA
Configuration File	D:\Synergy_Work_Area\IoHwAbstractionUsr_FIASA\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	-D_DATA_ACCESS= -Dconst= -I\$(PROJECTROOT)\IoHwAbstractionUsr\utp\contract -I\$(PROJECTROOT)\IoHwAbstractionUsr\include -I\$(PROJECTROOT)\NxtLib\include -I\$(PROJECTROOT)\StdDef\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include

## Comments/Description/Specification

Name	Text
Module 'IoHwAbstractionUsr'	<p>*****Unit Test Information*****</p> <p>Name of Tester:Sarika Natu Code File(s) Under Test:IoHwAbstractionUsr.c Code File(s) Version:5 Module Design Document:NA Module Design Document Version:NA Data Dictionary Version: 4 Unit Test Plan Version:1 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 1.32 Total FLASH Used (Bytes):1020 Total RAM Used (Bytes):50 Total CALS Used (Bytes):32 Special Test Requirements:NA Test Date:6/2/2016 Comments:"Note 1: Inline functions defined in ""GlobalMacro.h"" are not unit tested.</p> <p>Note 2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference.</p> <p>Note 3:Output Variables Batt_Volt_M_f32 and Batt_Volt_f32 are going out of range.</p> <p>Note 4: In function ""IoHwAb_SlowADCGroupValidity"" extra code is added in VBA, to exit the while loop and to replicate the usercode functionality of TESSY.</p> <p>"</p> <p>*****</p>

## 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	\$(TESSY_SYSPATH)\compiler\ti\tms470\sys_link.cmd



# TEST DETAILS REPORT

2016-06-02, 10:39:08+0530

IoHwAb\_ReadAdc



Attributes	
Name	Value
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 4.4
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\IoHwAbstractionUsr_FIASA\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

# TEST DETAILS REPORT

2016-06-02, 10:39:08+0530

IoHwAb\_ReadAdc



## Test Case 1: Metrics Test

<b>Specification</b>	Performance Metrics (With "None" Instrumentation and WithPS Environment) CPU Cycles:  TS 1.1 1749.00 Cycles TS 1.2 6603.00 Cycles
<b>Description</b>	Vector Description:  TS1.1"Shortest Execution Path: ( DataValid_Cnt_T_lgc == TRUE ) =false" TS1.2"Longest Execution Path: ( DataValid_Cnt_T_lgc == TRUE )==> TRUE ( (Vref_Volt_T_f32 > k_VrefMax_Volt_f32)    (Vref_Volt_T_f32 < k_VrefMin_Volt_f32) )==> TRUE (VrefFitAcc_Cnt_M_u16 < (k_VrefDiag_Cnt_str.Threshold - k_VrefDiag_Cnt_str.Pstep))==> FALSE (VrefFitAcc_Cnt_M_u16 > k_VrefDiag_Cnt_str.Threshold) ==> TRUE ( Vref_Volt_T_f32 > k_VrefMax_Volt_f32 )==> FALSE  "

## Test Step 1.1 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	31		
Batt_Volt_M_f32	31		
DMADData_G_str.SlowADC_Cnt_u16[0]	65535		
DMADData_G_str.SlowADC_Cnt_u16[1]	65535		
DMADData_G_str.SlowADC_Cnt_u16[2]	65535		
DMADData_G_str.SlowADC_Cnt_u16[3]	65535		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	65535		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	65535		
SlowADCFItAcc_Cnt_M_u16	65535		
SysCVSwitch_Volt_M_f32	31		
Temperature_Volt_M_f32	5		
VrefFitAcc_Cnt_M_u16	65535		
k_ReadAdcWaitTimeout_uS_u32	65535		
k_SlowADCValidDiag_Cnt_str.Threshold	255		
k_SlowADCValidDiag_Cnt_str.PStep	255		
k_SlowADCValidDiag_Cnt_str.NStep	255		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	255		
k_VrefDiag_Cnt_str.PStep	255		
k_VrefDiag_Cnt_str.NStep	255		
k_VrefMax_Volt_f32	6		
k_VrefMin_Volt_f32	6		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	4294967295		
target_GetSystemTime_uS_u32_CurrentTime	4294967295		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	31	31	✔
Batt_Volt_M_f32	31	31	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	54	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	32	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	31	31	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	31	31	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	31	31	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	5	5	✔
SlowADCFItAcc_Cnt_M_u16	255	255	✔
SysCVSwitch_Volt_M_f32	31	31	✔
Temperature_Volt_M_f32	5	5	✔
VrefFitAcc_Cnt_M_u16	65535	65535	✔

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Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓

Test Step 1.2 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	23.6083183			
Batt_Volt_M_f32	4.23414135			
DMADData_G_str.SlowADC_Cnt_u16[0]	43			
DMADData_G_str.SlowADC_Cnt_u16[1]	44			
DMADData_G_str.SlowADC_Cnt_u16[2]	45			
DMADData_G_str.SlowADC_Cnt_u16[3]	46			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	25			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	25			
SlowADCFltAcc_Cnt_M_u16	65535			
SysCVSwitch_Volt_M_f32	24.7070389			
Temperature_Volt_M_f32	3.26238513			
VrefFltAcc_Cnt_M_u16	530			
k_ReadAdcWaitTimeout_uS_u32	39582			
k_SlowADCValidDiag_Cnt_str.Threshold	159			
k_SlowADCValidDiag_Cnt_str.PStep	50			
k_SlowADCValidDiag_Cnt_str.NStep	73			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	31			
k_VrefDiag_Cnt_str.PStep	163			
k_VrefDiag_Cnt_str.NStep	60			
k_VrefMax_Volt_f32	2.25536227			
k_VrefMin_Volt_f32	2.34912372			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2089692451			
target_GetSystemTime_uS_u32_CurrentTime	2195757816			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	0.189260975	0.189260975	✓	
Batt_Volt_M_f32	0.362482995	0.362482995	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	0.362482995	0.362482995	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.189260975	0.189260975	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	0.102859229	0.102859229	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.0525030531	0.0525030531	✓	
SlowADCFltAcc_Cnt_M_u16	65243	65243	✓	
SysCVSwitch_Volt_M_f32	0.102859229	0.102859229	✓	
Temperature_Volt_M_f32	0.0525030531	0.0525030531	✓	
VrefFltAcc_Cnt_M_u16	31	31	✓	
NTC	0x46	0x46	✓	
Param	0x02	0x02	✓	
Status	0x01	0x01	✓	

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## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

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## Test Case 2: Boundary Test

**Specification** Performance Metrics (With "None" Instrumentation and WithPS Environment)  
CPU Cycles:

TS 2.1 6643.00 Cycles  
TS 2.2 1771.00 Cycles  
TS 2.3 6595.00 Cycles  
TS 2.4 1743.00 Cycles  
TS 2.5 6567.00 Cycles  
TS 2.6 6592.00 Cycles  
TS 2.7 6592.00 Cycles  
TS 2.8 6592.00 Cycles  
TS 2.9 6592.00 Cycles  
TS 2.10 6592.00 Cycles  
TS 2.11 6592.00 Cycles  
TS 2.12 6592.00 Cycles  
TS 2.13 6592.00 Cycles  
TS 2.14 6592.00 Cycles  
TS 2.15 1197.00 Cycles  
TS 2.16 6592.00 Cycles  
TS 2.17 6592.00 Cycles  
TS 2.18 6592.00 Cycles  
TS 2.19 1179.00 Cycles  
TS 2.20 6575.00 Cycles  
TS 2.21 6559.00 Cycles  
TS 2.22 6592.00 Cycles  
TS 2.23 6592.00 Cycles  
TS 2.24 6592.00 Cycles  
TS 2.25 6592.00 Cycles  
TS 2.26 6577.00 Cycles  
TS 2.27 6592.00 Cycles  
TS 2.28 6592.00 Cycles  
TS 2.29 1206.00 Cycles  
TS 2.30 1139.00 Cycles  
TS 2.31 6567.00 Cycles  
TS 2.32 6592.00 Cycles  
TS 2.33 1162.00 Cycles  
TS 2.34 6592.00 Cycles  
TS 2.35 6592.00 Cycles  
TS 2.36 6603.00 Cycles  
TS 2.37 6599.00 Cycles  
TS 2.38 6599.00 Cycles  
TS 2.39 6592.00 Cycles  
TS 2.40 6603.00 Cycles

**Description** Vector Description:

TS2.1All Min  
TS2.2All Max  
TS2.3DMADData\_G\_str.SlowADC\_Cnt\_u16[4]=Min  
TS2.4DMADData\_G\_str.SlowADC\_Cnt\_u16[4]=Max  
TS2.5DMADData\_G\_str.SlowADC\_Cnt\_u16[4]=Pos  
TS2.6SysCVSwitchADC\_Cnt\_u16=Min  
TS2.7SysCVSwitchADC\_Cnt\_u16=Max  
TS2.8SysCVSwitchADC\_Cnt\_u16=Pos  
TS2.9BattSwitched\_Volt\_M\_f32=Min  
TS2.10BattSwitched\_Volt\_M\_f32=Max  
TS2.11BattSwitched\_Volt\_M\_f32=Pos  
TS2.12Batt\_Volt\_M\_f32=Min  
TS2.13Batt\_Volt\_M\_f32=Max  
TS2.14Batt\_Volt\_M\_f32=Pos  
TS2.15SysCVSwitch\_Volt\_M\_f32=Min  
TS2.16SysCVSwitch\_Volt\_M\_f32=Max  
TS2.17SysCVSwitch\_Volt\_M\_f32=Pos  
TS2.18Temperature\_Volt\_M\_f32=Min  
TS2.19Temperature\_Volt\_M\_f32=Max  
TS2.20Temperature\_Volt\_M\_f32=Pos  
TS2.21k\_VrefMax\_Volt\_f32=Min  
TS2.22k\_VrefMax\_Volt\_f32=Max  
TS2.23k\_VrefMax\_Volt\_f32=Pos  
TS2.24k\_VrefMax\_Volt\_f32=Default  
TS2.25k\_VrefMin\_Volt\_f32=Min  
TS2.26k\_VrefMin\_Volt\_f32=Max  
TS2.27k\_VrefMin\_Volt\_f32=Pos  
TS2.28k\_VrefMin\_Volt\_f32=Default  
TS2.29VrefFitAcc\_Cnt\_M\_u16=Min  
TS2.30VrefFitAcc\_Cnt\_M\_u16=Max  
TS2.31VrefFitAcc\_Cnt\_M\_u16=Pos  
TS2.32k\_VrefDiag\_Cnt\_str.Threshold=Min  
TS2.33k\_VrefDiag\_Cnt\_str.Threshold=Max  
TS2.34k\_VrefDiag\_Cnt\_str.Threshold=Pos/Default  
TS2.35k\_VrefDiag\_Cnt\_str.Pstep=Min  
TS2.36k\_VrefDiag\_Cnt\_str.Pstep=Max  
TS2.37k\_VrefDiag\_Cnt\_str.Pstep=Pos/Default  
TS2.38k\_VrefDiag\_Cnt\_str.Nstep=Min  
TS2.39k\_VrefDiag\_Cnt\_str.Nstep=Max  
TS2.40k\_VrefDiag\_Cnt\_str.Nstep=Pos/Default

## Test Step 2.1 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	0
Batt_Volt_M_f32	0
DMADData_G_str.SlowADC_Cnt_u16[0]	0
DMADData_G_str.SlowADC_Cnt_u16[1]	0
DMADData_G_str.SlowADC_Cnt_u16[2]	0
DMADData_G_str.SlowADC_Cnt_u16[3]	0

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Name	Input Value		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	0		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC\	0		
SlowADCFltAcc_Cnt_M_u16	0		
SysCVSwitch_Volt_M_f32	0		
Temperature_Volt_M_f32	0		
VrefFltAcc_Cnt_M_u16	0		
k_ReadAdcWaitTimeout_uS_u32	0		
k_SlowADCValidDiag_Cnt_str.Threshold	0		
k_SlowADCValidDiag_Cnt_str.PStep	0		
k_SlowADCValidDiag_Cnt_str.NStep	0		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	0		
k_VrefDiag_Cnt_str.PStep	0		
k_VrefDiag_Cnt_str.NStep	0		
k_VrefMax_Volt_f32	0		
k_VrefMin_Volt_f32	0		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	0		
target_GetSystemTime_uS_u32_CurrentTime	0		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0	0	✓
Batt_Volt_M_f32	0	0	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	0	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	0	0	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	0	0	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	0	0	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0	0	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC\	0	0	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp\	0	0	✓
SlowADCFltAcc_Cnt_M_u16	0	0	✓
SysCVSwitch_Volt_M_f32	0	0	✓
Temperature_Volt_M_f32	0	0	✓
VrefFltAcc_Cnt_M_u16	0	0	✓
NTC	0x46	0x46	✓
Param	0x00	0x00	✓
Status	0x00	0x00	✓

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.2 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	31
Batt_Volt_M_f32	31
DMADData_G_str.SlowADC_Cnt_u16[0]	65535
DMADData_G_str.SlowADC_Cnt_u16[1]	65535
DMADData_G_str.SlowADC_Cnt_u16[2]	65535
DMADData_G_str.SlowADC_Cnt_u16[3]	65535
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	65535
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	65535
SlowADCFltAcc_Cnt_M_u16	65535
SysCVSwitch_Volt_M_f32	31
Temperature_Volt_M_f32	5
VrefFltAcc_Cnt_M_u16	65535
k_ReadAdcWaitTimeout_uS_u32	65535
k_SlowADCValidDiag_Cnt_str.Threshold	65535
k_SlowADCValidDiag_Cnt_str.PStep	65535
k_SlowADCValidDiag_Cnt_str.NStep	65535

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Name	Input Value		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	255		
k_VrefDiag_Cnt_str.PStep	255		
k_VrefDiag_Cnt_str.NStep	255		
k_VrefMax_Volt_f32	6		
k_VrefMin_Volt_f32	6		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	4294967295		
target_GetSystemTime_uS_u32_CurrentTime	4294967295		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	31	31	✓
Batt_Volt_M_f32	31	31	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	54	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	32	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	31	31	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	31	31	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	31	31	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	5	5	✓
SlowADCFitAcc_Cnt_M_u16	65535	65535	✓
SysCVSwitch_Volt_M_f32	31	31	✓
Temperature_Volt_M_f32	5	5	✓
VrefFitAcc_Cnt_M_u16	65535	65535	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓

Test Step 2.3 (Repeat Count = 1)	
Name	Input Value
BattSwitched_Volt_M_f32	28.0038395
Batt_Volt_M_f32	4.64012289
DMADData_G_str.SlowADC_Cnt_u16[0]	0
DMADData_G_str.SlowADC_Cnt_u16[1]	0
DMADData_G_str.SlowADC_Cnt_u16[2]	0
DMADData_G_str.SlowADC_Cnt_u16[3]	0
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5246
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5246
SlowADCFitAcc_Cnt_M_u16	0
SysCVSwitch_Volt_M_f32	30.3865681
Temperature_Volt_M_f32	2.34604096
VrefFitAcc_Cnt_M_u16	524
k_ReadAdcWaitTimeout_uS_u32	400
k_SlowADCValidDiag_Cnt_str.Threshold	119
k_SlowADCValidDiag_Cnt_str.PStep	84
k_SlowADCValidDiag_Cnt_str.NStep	166
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712658
k_VrefDiag_Cnt_str.Threshold	25
k_VrefDiag_Cnt_str.PStep	157
k_VrefDiag_Cnt_str.NStep	54
k_VrefMax_Volt_f32	0.398358107
k_VrefMin_Volt_f32	2.09247947
k_VrefScale_Uls_f32	1

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Name	Input Value		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2157471337		
target_GetSystemTime_uS_u32_CurrentTime	3826103446		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0	0	✓
Batt_Volt_M_f32	0	0	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	0	0	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0	0	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC\	4.73152447	4.73152447	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp\	0	0	✓
SlowADCFitAcc_Cnt_M_u16	0	0	✓
SysCVSwitch_Volt_M_f32	4.73152447	4.73152447	✓
Temperature_Volt_M_f32	0	0	✓
VrefFitAcc_Cnt_M_u16	25	25	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 2.4 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	30.3547401			
Batt_Volt_M_f32	18.6845856			
DMADData_G_str.SlowADC_Cnt_u16[0]	65535			
DMADData_G_str.SlowADC_Cnt_u16[1]	65535			
DMADData_G_str.SlowADC_Cnt_u16[2]	65535			
DMADData_G_str.SlowADC_Cnt_u16[3]	65535			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5247			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC\	5247			
SlowADCFitAcc_Cnt_M_u16	65535			
SysCVSwitch_Volt_M_f32	28.8872509			
Temperature_Volt_M_f32	4.8639884			
VrefFitAcc_Cnt_M_u16	525			
k_ReadAdcWaitTimeout_uS_u32	39582			
k_SlowADCValidDiag_Cnt_str.Threshold	159			
k_SlowADCValidDiag_Cnt_str.PStep	50			
k_SlowADCValidDiag_Cnt_str.NStep	73			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	26			
k_VrefDiag_Cnt_str.PStep	158			
k_VrefDiag_Cnt_str.NStep	55			
k_VrefMax_Volt_f32	1.5506171			
k_VrefMin_Volt_f32	3.65667725			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2089692451			
target_GetSystemTime_uS_u32_CurrentTime	2195757816			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	30.3547401	30.3547401	✓	
Batt_Volt_M_f32	18.6845856	18.6845856	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	54	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	32	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	18.6845856	18.6845856	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	30.3547401	30.3547401	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC\	28.8872509	28.8872509	✓	



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Name	Actual Value	Expected Value	Result
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	4.8639884	4.8639884	✓
SlowADCFitAcc_Cnt_M_u16	159	159	✓
SysCVSwitch_Volt_M_f32	28.8872509	28.8872509	✓
Temperature_Volt_M_f32	4.8639884	4.8639884	✓
VrefFitAcc_Cnt_M_u16	525	525	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓

Test Step 2.5 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	4.30806255			
Batt_Volt_M_f32	25.8107109			
DMADData_G_str.SlowADC_Cnt_u16[0]	1			
DMADData_G_str.SlowADC_Cnt_u16[1]	2			
DMADData_G_str.SlowADC_Cnt_u16[2]	3			
DMADData_G_str.SlowADC_Cnt_u16[3]	4			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5248			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC	5248			
SlowADCFitAcc_Cnt_M_u16	43580			
SysCVSwitch_Volt_M_f32	27.9898472			
Temperature_Volt_M_f32	1.26439631			
VrefFitAcc_Cnt_M_u16	526			
k_ReadAdcWaitTimeout_uS_u32	18562			
k_SlowADCValidDiag_Cnt_str.Threshold	149			
k_SlowADCValidDiag_Cnt_str.PStep	237			
k_SlowADCValidDiag_Cnt_str.NStep	146			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	27			
k_VrefDiag_Cnt_str.PStep	159			
k_VrefDiag_Cnt_str.NStep	56			
k_VrefMax_Volt_f32	4.85695553			
k_VrefMin_Volt_f32	0.426252633			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2615883870			
target_GetSystemTime_uS_u32_CurrentTime	20507433			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	0.0164574776	0.0164574757	✓	
Batt_Volt_M_f32	0.0164765008	0.0164764989	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	0.0164765008	0.0164764989	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.0164574776	0.0164574757	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC	4.73975325	4.73975325	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.00122100126	0.00122100126	✓	
SlowADCFitAcc_Cnt_M_u16	42996	42996	✓	
SysCVSwitch_Volt_M_f32	4.73975325	4.73975325	✓	
Temperature_Volt_M_f32	0.00122100126	0.00122100126	✓	
VrefFitAcc_Cnt_M_u16	27	27	✓	
NTC	0x46	0x46	✓	
Param	0x02	0x02	✓	
Status	0x01	0x01	✓	

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Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 2.6 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	19.5796547			
Batt_Volt_M_f32	25.3909492			
DMADData_G_str.SlowADC_Cnt_u16[0]	1			
DMADData_G_str.SlowADC_Cnt_u16[1]	2			
DMADData_G_str.SlowADC_Cnt_u16[2]	3			
DMADData_G_str.SlowADC_Cnt_u16[3]	4			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	0			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16	43925			
SysCVSwitch_Volt_M_f32	8.8453722			
Temperature_Volt_M_f32	4.77035999			
VrefFltAcc_Cnt_M_u16	527			
k_ReadAdcWaitTimeout_uS_u32	43696			
k_SlowADCValidDiag_Cnt_str.Threshold	102			
k_SlowADCValidDiag_Cnt_str.PStep	185			
k_SlowADCValidDiag_Cnt_str.NStep	134			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	28			
k_VrefDiag_Cnt_str.PStep	160			
k_VrefDiag_Cnt_str.NStep	57			
k_VrefMax_Volt_f32	1.14667892			
k_VrefMin_Volt_f32	3.62730908			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	1908826491			
target_GetSystemTime_uS_u32_CurrentTime	3634607182			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	0.0164574776	0.0164574757	✓	
Batt_Volt_M_f32	0.0164765008	0.0164764989	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	0.0164765008	0.0164764989	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.0164574776	0.0164574757	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16	0	0	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_TempSensorOffset_Volt_f32	0.00122100126	0.00122100126	✓	
SlowADCFltAcc_Cnt_M_u16	43389	43389	✓	
SysCVSwitch_Volt_M_f32	0	0	✓	
Temperature_Volt_M_f32	0.00122100126	0.00122100126	✓	
VrefFltAcc_Cnt_M_u16	28	28	✓	
NTC	0x46	0x46	✓	
Param	0x02	0x02	✓	
Status	0x01	0x01	✓	

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

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## Test Step 2.7 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	1.42019367
Batt_Volt_M_f32	10.7669411
DMADData_G_str.SlowADC_Cnt_u16[0]	15
DMADData_G_str.SlowADC_Cnt_u16[1]	16
DMADData_G_str.SlowADC_Cnt_u16[2]	17
DMADData_G_str.SlowADC_Cnt_u16[3]	18
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	65535
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16.value	65535
SlowADCFltAcc_Cnt_M_u16	10
SysCVSwitch_Volt_M_f32	17.3533077
Temperature_Volt_M_f32	0.463570893
VrefFltAcc_Cnt_M_u16	528
k_ReadAdcWaitTimeout_uS_u32	24585
k_SlowADCValidDiag_Cnt_str.Threshold	255
k_SlowADCValidDiag_Cnt_str.PStep	10
k_SlowADCValidDiag_Cnt_str.NStep	253
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712658
k_VrefDiag_Cnt_str.Threshold	29
k_VrefDiag_Cnt_str.PStep	161
k_VrefDiag_Cnt_str.NStep	58
k_VrefMax_Volt_f32	1.13776076
k_VrefMin_Volt_f32	1.25570905
k_VrefScale_Uls_f32	1
k_VswitchScale_Uls_f32	3.36966825
target_DtrmnElapsedTime_uS_u32_ElapsedTime	887031526
target_GetSystemTime_uS_u32_CurrentTime	3489753329

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.0740586445	0.0740586445	✓
Batt_Volt_M_f32	0.131812006	0.131811991	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	0.131812006	0.131811991	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.0740586445	0.0740586445	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16.value	16.848341	16.848341	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_TempSensorOffset_Volt_f32.value	0.0183150191	0.0183150191	✓
SlowADCFltAcc_Cnt_M_u16	0	0	✓
SysCVSwitch_Volt_M_f32	16.848341	16.848341	✓
Temperature_Volt_M_f32	0.0183150191	0.0183150191	✓
VrefFltAcc_Cnt_M_u16	29	29	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.8 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	25.9065113
Batt_Volt_M_f32	28.1904907
DMADData_G_str.SlowADC_Cnt_u16[0]	29
DMADData_G_str.SlowADC_Cnt_u16[1]	30
DMADData_G_str.SlowADC_Cnt_u16[2]	31
DMADData_G_str.SlowADC_Cnt_u16[3]	32
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	15525
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16.value	15525

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Name	Input Value			
SlowADCFitAcc_Cnt_M_u16	1286			
SysCVSwitch_Volt_M_f32	14.6357908			
Temperature_Volt_M_f32	0.246733636			
VrefFitAcc_Cnt_M_u16	529			
k_ReadAdcWaitTimeout_uS_u32	26770			
k_SlowADCValidDiag_Cnt_str.Threshold	17			
k_SlowADCValidDiag_Cnt_str.PStep	217			
k_SlowADCValidDiag_Cnt_str.NStep	178			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	30			
k_VrefDiag_Cnt_str.PStep	162			
k_VrefDiag_Cnt_str.NStep	59			
k_VrefMax_Volt_f32	1.1271081			
k_VrefMin_Volt_f32	4.75260639			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	3576754686			
target_GetSystemTime_uS_u32_CurrentTime	861546824			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	0.131659821	0.131659806	✓	
Batt_Volt_M_f32	0.247147501	0.247147486	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	0.247147501	0.247147486	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.131659821	0.131659806	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	13.3182135	13.3182125	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.035409037	0.035409037	✓	
SlowADCFitAcc_Cnt_M_u16	574	574	✓	
SysCVSwitch_Volt_M_f32	13.3182135	13.3182125	✓	
Temperature_Volt_M_f32	0.035409037	0.035409037	✓	
VrefFitAcc_Cnt_M_u16	30	30	✓	
NTC	0x46	0x46	✓	
Param	0x02	0x02	✓	
Status	0x01	0x01	✓	

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.9 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	0
Batt_Volt_M_f32	29.0710506
DMADData_G_str.SlowADC_Cnt_u16[0]	211
DMADData_G_str.SlowADC_Cnt_u16[1]	212
DMADData_G_str.SlowADC_Cnt_u16[2]	213
DMADData_G_str.SlowADC_Cnt_u16[3]	214
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	591
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	591
SlowADCFitAcc_Cnt_M_u16	60482
SysCVSwitch_Volt_M_f32	9.19895458
Temperature_Volt_M_f32	3.33381295
VrefFitAcc_Cnt_M_u16	2554
k_ReadAdcWaitTimeout_uS_u32	0
k_SlowADCValidDiag_Cnt_str.Threshold	181
k_SlowADCValidDiag_Cnt_str.PStep	85
k_SlowADCValidDiag_Cnt_str.NStep	217
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712658
k_VrefDiag_Cnt_str.Threshold	43

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Name	Input Value		
k_VrefDiag_Cnt_str.PStep	175		
k_VrefDiag_Cnt_str.NStep	72		
k_VrefMax_Volt_f32	2.73158336		
k_VrefMin_Volt_f32	0.889596105		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	79494048		
target_GetSystemTime_uS_u32_CurrentTime	4139727429		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.880475044	0.880474985	✓
Batt_Volt_M_f32	1.74650908	1.74650896	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.74650908	1.74650896	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.880475044	0.880474985	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	2.43159223	2.43159199	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.257631272	0.257631272	✓
SlowADCFitAcc_Cnt_M_u16	59614	59614	✓
SysCVSwitch_Volt_M_f32	2.43159223	2.43159199	✓
Temperature_Volt_M_f32	0.257631272	0.257631272	✓
VrefFitAcc_Cnt_M_u16	43	43	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.10 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	31		
Batt_Volt_M_f32	3.52833652		
DMADData_G_str.SlowADC_Cnt_u16[0]	225		
DMADData_G_str.SlowADC_Cnt_u16[1]	226		
DMADData_G_str.SlowADC_Cnt_u16[2]	227		
DMADData_G_str.SlowADC_Cnt_u16[3]	228		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	592		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	592		
SlowADCFitAcc_Cnt_M_u16	49261		
SysCVSwitch_Volt_M_f32	17.0789413		
Temperature_Volt_M_f32	1.19054377		
VrefFitAcc_Cnt_M_u16	2555		
k_ReadAdcWaitTimeout_uS_u32	65535		
k_SlowADCValidDiag_Cnt_str.Threshold	234		
k_SlowADCValidDiag_Cnt_str.PStep	22		
k_SlowADCValidDiag_Cnt_str.NStep	219		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	44		
k_VrefDiag_Cnt_str.PStep	176		
k_VrefDiag_Cnt_str.NStep	73		
k_VrefMax_Volt_f32	0.780729175		
k_VrefMin_Volt_f32	0.377253652		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	1576855212		
target_GetSystemTime_uS_u32_CurrentTime	2517312924		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.938076198	0.938076138	✓
Batt_Volt_M_f32	1.86184454	1.86184442	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓

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Name	Actual Value	Expected Value	Result
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.86184454	1.86184442	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.938076198	0.938076138	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	2.43570662	2.43570638	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.274725288	0.274725288	✓
SlowADCFitAcc_Cnt_M_u16	48385	48385	✓
SysCVSwitch_Volt_M_f32	2.43570662	2.43570638	✓
Temperature_Volt_M_f32	0.274725288	0.274725288	✓
VrefFitAcc_Cnt_M_u16	44	44	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 2.11 (Repeat Count = 1)				✔
Name		Input Value		
BattSwitched_Volt_M_f32		4.5815568		
Batt_Volt_M_f32		19.8421535		
DMADData_G_str.SlowADC_Cnt_u16[0]		239		
DMADData_G_str.SlowADC_Cnt_u16[1]		240		
DMADData_G_str.SlowADC_Cnt_u16[2]		241		
DMADData_G_str.SlowADC_Cnt_u16[3]		242		
DtrmnElapsedTime_uS_u32(ElapsedTime)		target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)		target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value		593		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV		593		
SlowADCFitAcc_Cnt_M_u16		16572		
SysCVSwitch_Volt_M_f32		0.891750693		
Temperature_Volt_M_f32		3.43647194		
VrefFitAcc_Cnt_M_u16		24578		
k_ReadAdcWaitTimeout_uS_u32		400		
k_SlowADCValidDiag_Cnt_str.Threshold		146		
k_SlowADCValidDiag_Cnt_str.PStep		146		
k_SlowADCValidDiag_Cnt_str.NStep		112		
k_TempSensorOffset_Volt_f32		0		
k_TempSensorScale_Uls_f32		1		
k_VbattScale_Uls_f32		6.74712658		
k_VrefDiag_Cnt_str.Threshold		45		
k_VrefDiag_Cnt_str.PStep		177		
k_VrefDiag_Cnt_str.NStep		74		
k_VrefMax_Volt_f32		1.25062776		
k_VrefMin_Volt_f32		1.85848808		
k_VrefScale_Uls_f32		1		
k_VswitchScale_Uls_f32		3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime		1905314420		
target_GetSystemTime_uS_u32_CurrentTime		3086448313		
Name		Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32		0.995677352	0.995677292	✔
Batt_Volt_M_f32		1.97718	1.97717988	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)		54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)		32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)		1	1	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value		1.97718	1.97717988	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value		0.995677352	0.995677292	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV		2.439821	2.43982077	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp		0.291819304	0.291819304	✔
SlowADCFitAcc_Cnt_M_u16		16124	16124	✔
SysCVSwitch_Volt_M_f32		2.439821	2.43982077	✔
Temperature_Volt_M_f32		0.291819304	0.291819304	✔
VrefFitAcc_Cnt_M_u16		45	45	✔
NTC		0x46	0x46	✔
Param		0x02	0x02	✔

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Name	Actual Value	Expected Value	Result
Status	0x01	0x01	✓

## Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.12 (Repeat Count = 1) ✓

Name	Input Value
BattSwitched_Volt_M_f32	24.5132751
Batt_Volt_M_f32	0
DMADData_G_str.SlowADC_Cnt_u16[0]	295
DMADData_G_str.SlowADC_Cnt_u16[1]	296
DMADData_G_str.SlowADC_Cnt_u16[2]	297
DMADData_G_str.SlowADC_Cnt_u16[3]	298
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	597
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	597
SlowADCFitAcc_Cnt_M_u16	38463
SysCVSwitch_Volt_M_f32	4.46260881
Temperature_Volt_M_f32	0.791613579
VrefFitAcc_Cnt_M_u16	24582
k_ReadAdcWaitTimeout_uS_u32	56454
k_SlowADCValidDiag_Cnt_str.Threshold	236
k_SlowADCValidDiag_Cnt_str.PStep	186
k_SlowADCValidDiag_Cnt_str.NStep	0
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712658
k_VrefDiag_Cnt_str.Threshold	49
k_VrefDiag_Cnt_str.PStep	181
k_VrefDiag_Cnt_str.NStep	154
k_VrefMax_Volt_f32	1.2409085
k_VrefMin_Volt_f32	3.66786385
k_VrefScale_Uls_f32	1
k_VswitchScale_Uls_f32	3.36966825
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2243170835
target_GetSystemTime_uS_u32_CurrentTime	2046175492

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	1.22608197	1.22608197	✓
Batt_Volt_M_f32	2.4385221	2.43852186	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	2.4385221	2.43852186	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.22608197	1.22608197	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	2.45627832	2.45627832	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.360195369	0.360195369	✓
SlowADCFitAcc_Cnt_M_u16	38463	38463	✓
SysCVSwitch_Volt_M_f32	2.45627832	2.45627832	✓
Temperature_Volt_M_f32	0.360195369	0.360195369	✓
VrefFitAcc_Cnt_M_u16	49	49	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

## Test Step Call Trace ✓

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

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## Test Step 2.13 (Repeat Count = 1)



Name	Input Value
BattSwitched_Volt_M_f32	6.31574869
Batt_Volt_M_f32	31
DMADData_G_str.SlowADC_Cnt_u16[0]	309
DMADData_G_str.SlowADC_Cnt_u16[1]	310
DMADData_G_str.SlowADC_Cnt_u16[2]	311
DMADData_G_str.SlowADC_Cnt_u16[3]	312
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	598
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	598
SlowADCFltAcc_Cnt_M_u16	35912
SysCVSwitch_Volt_M_f32	15.8778629
Temperature_Volt_M_f32	2.79404235
VrefFltAcc_Cnt_M_u16	24583
k_ReadAdcWaitTimeout_uS_u32	61733
k_SlowADCValidDiag_Cnt_str.Threshold	197
k_SlowADCValidDiag_Cnt_str.PStep	230
k_SlowADCValidDiag_Cnt_str.NStep	255
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712658
k_VrefDiag_Cnt_str.Threshold	50
k_VrefDiag_Cnt_str.PStep	182
k_VrefDiag_Cnt_str.NStep	155
k_VrefMax_Volt_f32	2.076509
k_VrefMin_Volt_f32	0.76046747
k_VrefScale_Uls_f32	1
k_VswitchScale_Uls_f32	3.36966825
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2722463454
target_GetSystemTime_uS_u32_CurrentTime	57471248

Name	Actual Value	Expected Value	Result
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Name	Input Value		
SlowADCFitAcc_Cnt_M_u16	60285		
SysCVSwitch_Volt_M_f32	0.576090574		
Temperature_Volt_M_f32	1.23858559		
VrefFitAcc_Cnt_M_u16	24584		
k_ReadAdcWaitTimeout_uS_u32	48478		
k_SlowADCValidDiag_Cnt_str.Threshold	247		
k_SlowADCValidDiag_Cnt_str.PStep	53		
k_SlowADCValidDiag_Cnt_str.NStep	1		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	51		
k_VrefDiag_Cnt_str.PStep	183		
k_VrefDiag_Cnt_str.NStep	156		
k_VrefMax_Volt_f32	4.64651155		
k_VrefMin_Volt_f32	3.28734779		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2033941355		
target_GetSystemTime_uS_u32_CurrentTime	3285270500		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	1.34128428	1.34128428	✓
Batt_Volt_M_f32	2.66919303	2.66919279	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	2.66919303	2.66919279	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.34128428	1.34128428	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	2.4645071	2.4645071	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.394383401	0.394383401	✓
SlowADCFitAcc_Cnt_M_u16	60281	60281	✓
SysCVSwitch_Volt_M_f32	2.4645071	2.4645071	✓
Temperature_Volt_M_f32	0.394383401	0.394383401	✓
VrefFitAcc_Cnt_M_u16	51	51	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.15 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	3.13798022
Batt_Volt_M_f32	1.27581835
DMADData_G_str.SlowADC_Cnt_u16[0]	379
DMADData_G_str.SlowADC_Cnt_u16[1]	380
DMADData_G_str.SlowADC_Cnt_u16[2]	381
DMADData_G_str.SlowADC_Cnt_u16[3]	382
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	603
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	603
SlowADCFitAcc_Cnt_M_u16	18022
SysCVSwitch_Volt_M_f32	0
Temperature_Volt_M_f32	1.2864784
VrefFitAcc_Cnt_M_u16	24588
k_ReadAdcWaitTimeout_uS_u32	52013
k_SlowADCValidDiag_Cnt_str.Threshold	30
k_SlowADCValidDiag_Cnt_str.PStep	0
k_SlowADCValidDiag_Cnt_str.NStep	100
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712658
k_VrefDiag_Cnt_str.Threshold	55

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Name	Input Value		
k_VrefDiag_Cnt_str.PStep	187		
k_VrefDiag_Cnt_str.NStep	160		
k_VrefMax_Volt_f32	2.37490797		
k_VrefMin_Volt_f32	0.416241318		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	3081270104		
target_GetSystemTime_uS_u32_CurrentTime	2133832437		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	1.57168901	1.57168901	✓
Batt_Volt_M_f32	3.13053489	3.13053489	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	*none*	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	3.13053489	3.13053489	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.57168901	1.57168901	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	2.48096466	2.48096442	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.462759465	0.462759465	✓
SlowADCFltAcc_Cnt_M_u16	17622	17622	✓
SysCVSwitch_Volt_M_f32	2.48096466	2.48096442	✓
Temperature_Volt_M_f32	0.462759465	0.462759465	✓
VrefFltAcc_Cnt_M_u16	24428	24428	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓

Test Step 2.16 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	23.6290665			
Batt_Volt_M_f32	28.50704			
DMADData_G_str.SlowADC_Cnt_u16[0]	393			
DMADData_G_str.SlowADC_Cnt_u16[1]	394			
DMADData_G_str.SlowADC_Cnt_u16[2]	395			
DMADData_G_str.SlowADC_Cnt_u16[3]	396			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	58742			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	58742			
SlowADCFltAcc_Cnt_M_u16	59599			
SysCVSwitch_Volt_M_f32	31			
Temperature_Volt_M_f32	3.03321457			
VrefFltAcc_Cnt_M_u16	24589			
k_ReadAdcWaitTimeout_uS_u32	41113			
k_SlowADCValidDiag_Cnt_str.Threshold	121			
k_SlowADCValidDiag_Cnt_str.PStep	255			
k_SlowADCValidDiag_Cnt_str.NStep	122			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	56			
k_VrefDiag_Cnt_str.PStep	188			
k_VrefDiag_Cnt_str.NStep	161			
k_VrefMax_Volt_f32	0.710318327			
k_VrefMin_Volt_f32	0.596259058			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	1396056638			
target_GetSystemTime_uS_u32_CurrentTime	2176681352			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	1.62929022	1.6292901	✓	
Batt_Volt_M_f32	3.24587059	3.24587035	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	3.24587059	3.24587035	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.62929022	1.6292901	✓	

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Name	Actual Value	Expected Value	Result
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCv	5.7518878	5.7518878	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.479853511	0.479853481	✓
SlowADCFItAcc_Cnt_M_u16	59111	59111	✓
SysCVSwitch_Volt_M_f32	5.7518878	5.7518878	✓
Temperature_Volt_M_f32	0.479853511	0.479853481	✓
VrefFitAcc_Cnt_M_u16	56	56	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 2.17 (Repeat Count = 1)				✔
Name		Input Value		
BattSwitched_Volt_M_f32		30.0535297		
Batt_Volt_M_f32		13.0206537		
DMADData_G_str.SlowADC_Cnt_u16[0]		407		
DMADData_G_str.SlowADC_Cnt_u16[1]		408		
DMADData_G_str.SlowADC_Cnt_u16[2]		409		
DMADData_G_str.SlowADC_Cnt_u16[3]		410		
DtrmnElapsedTime_uS_u32(ElapsedTime)		target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)		target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value		58743		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV		58743		
SlowADCFitAcc_Cnt_M_u16		15637		
SysCVSwitch_Volt_M_f32		11.0298319		
Temperature_Volt_M_f32		4.9330678		
VrefFitAcc_Cnt_M_u16		24590		
k_ReadAdcWaitTimeout_uS_u32		53295		
k_SlowADCValidDiag_Cnt_str.Threshold		80		
k_SlowADCValidDiag_Cnt_str.PStep		4		
k_SlowADCValidDiag_Cnt_str.NStep		172		
k_TempSensorOffset_Volt_f32		0		
k_TempSensorScale_Uls_f32		1		
k_VbattScale_Uls_f32		6.74712658		
k_VrefDiag_Cnt_str.Threshold		57		
k_VrefDiag_Cnt_str.PStep		189		
k_VrefDiag_Cnt_str.NStep		162		
k_VrefMax_Volt_f32		0.650771558		
k_VrefMin_Volt_f32		0.606542706		
k_VrefScale_Uls_f32		1		
k_VswitchScale_Uls_f32		3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime		3847345397		
target_GetSystemTime_uS_u32_CurrentTime		3507376676		
Name		Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32		1.68689144	1.68689132	✔
Batt_Volt_M_f32		3.36120605	3.36120582	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)		54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)		32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)		1	1	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value		3.36120605	3.36120582	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value		1.68689144	1.68689132	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV		5.75600243	5.75600243	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp		0.496947527	0.496947497	✔
SlowADCFitAcc_Cnt_M_u16		14949	14949	✔
SysCVSwitch_Volt_M_f32		5.75600243	5.75600243	✔
Temperature_Volt_M_f32		0.496947527	0.496947497	✔
VrefFitAcc_Cnt_M_u16		57	57	✔
NTC		0x46	0x46	✔
Param		0x02	0x02	✔
Status		0x01	0x01	✔

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Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 2.18 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	16.7797127			
Batt_Volt_M_f32	15.7400465			
DMADData_G_str.SlowADC_Cnt_u16[0]	421			
DMADData_G_str.SlowADC_Cnt_u16[1]	422			
DMADData_G_str.SlowADC_Cnt_u16[2]	423			
DMADData_G_str.SlowADC_Cnt_u16[3]	424			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	58744			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16	58744			
SlowADCFltAcc_Cnt_M_u16	7995			
SysCVSwitch_Volt_M_f32	2.59969521			
Temperature_Volt_M_f32	0			
VrefFltAcc_Cnt_M_u16	24591			
k_ReadAdcWaitTimeout_uS_u32	38002			
k_SlowADCValidDiag_Cnt_str.Threshold	0			
k_SlowADCValidDiag_Cnt_str.PStep	186			
k_SlowADCValidDiag_Cnt_str.NStep	128			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	58			
k_VrefDiag_Cnt_str.PStep	190			
k_VrefDiag_Cnt_str.NStep	163			
k_VrefMax_Volt_f32	0.767083645			
k_VrefMin_Volt_f32	3.20896411			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	1498024395			
target_GetSystemTime_uS_u32_CurrentTime	2530847871			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	1.74449253	1.74449253	✓	
Batt_Volt_M_f32	3.47654152	3.47654128	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	3.47654152	3.47654128	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.74449253	1.74449253	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16	5.76011658	5.76011658	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_TempSensorOffset_Volt_f32	0.514041543	0.514041543	✓	
SlowADCFltAcc_Cnt_M_u16	7483	7483	✓	
SysCVSwitch_Volt_M_f32	5.76011658	5.76011658	✓	
Temperature_Volt_M_f32	0.514041543	0.514041543	✓	
VrefFltAcc_Cnt_M_u16	58	58	✓	
NTC	0x46	0x46	✓	
Param	0x02	0x02	✓	
Status	0x01	0x01	✓	

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

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## Test Step 2.19 (Repeat Count = 1)



Name	Input Value
BattSwitched_Volt_M_f32	26.4607525
Batt_Volt_M_f32	22.7770042
DMADData_G_str.SlowADC_Cnt_u16[0]	435
DMADData_G_str.SlowADC_Cnt_u16[1]	436
DMADData_G_str.SlowADC_Cnt_u16[2]	437
DMADData_G_str.SlowADC_Cnt_u16[3]	438
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	58745
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC\	58745
SlowADCFltAcc_Cnt_M_u16	59561
SysCVSwitch_Volt_M_f32	20.3263893
Temperature_Volt_M_f32	5
VrefFltAcc_Cnt_M_u16	24592
k_ReadAdcWaitTimeout_uS_u32	2840
k_SlowADCValidDiag_Cnt_str.Threshold	255
k_SlowADCValidDiag_Cnt_str.PStep	68
k_SlowADCValidDiag_Cnt_str.NStep	218
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712658
k_VrefDiag_Cnt_str.Threshold	59
k_VrefDiag_Cnt_str.PStep	191
k_VrefDiag_Cnt_str.NStep	164
k_VrefMax_Volt_f32	4.15743685
k_VrefMin_Volt_f32	0.354314417
k_VrefScale_Uls_f32	1
k_VswitchScale_Uls_f32	3.36966825
target_DtrmnElapsedTime_uS_u32_ElapsedTime	4205382334
target_GetSystemTime_uS_u32_CurrentTime	2171724739

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Name	Input Value		
k_ReadAdcWaitTimeout_uS_u32	60120		
k_SlowADCValidDiag_Cnt_str.Threshold	100		
k_SlowADCValidDiag_Cnt_str.PStep	121		
k_SlowADCValidDiag_Cnt_str.NStep	73		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	60		
k_VrefDiag_Cnt_str.PStep	192		
k_VrefDiag_Cnt_str.NStep	165		
k_VrefMax_Volt_f32	0.158807486		
k_VrefMin_Volt_f32	1.85650408		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	630440147		
target_GetSystemTime_uS_u32_CurrentTime	17904585		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	1.85969484	1.85969484	✔
Batt_Volt_M_f32	3.70721269	3.70721221	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	3.70721269	3.70721221	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.85969484	1.85969484	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC	5.76834536	5.76834536	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.548229575	0.548229575	✔
SlowADCFitAcc_Cnt_M_u16	39053	39053	✔
SysCVSwitch_Volt_M_f32	5.76834536	5.76834536	✔
Temperature_Volt_M_f32	0.548229575	0.548229575	✔
VrefFitAcc_Cnt_M_u16	60	60	✔
NTC	0x46	0x46	✔
Param	0x01	0x01	✔
Status	0x01	0x01	✔

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.21 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	5.07142639
Batt_Volt_M_f32	15.2209921
DMADData_G_str.SlowADC_Cnt_u16[0]	645
DMADData_G_str.SlowADC_Cnt_u16[1]	646
DMADData_G_str.SlowADC_Cnt_u16[2]	647
DMADData_G_str.SlowADC_Cnt_u16[3]	648
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	256
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC	256
SlowADCFltAcc_Cnt_M_u16	2309
SysCVSwitch_Volt_M_f32	0.701105893
Temperature_Volt_M_f32	0.0742249489
VrefFltAcc_Cnt_M_u16	156
k_ReadAdcWaitTimeout_uS_u32	46206
k_SlowADCValidDiag_Cnt_str.Threshold	150
k_SlowADCValidDiag_Cnt_str.PStep	221
k_SlowADCValidDiag_Cnt_str.NStep	69
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712658
k_VrefDiag_Cnt_str.Threshold	74
k_VrefDiag_Cnt_str.PStep	37
k_VrefDiag_Cnt_str.NStep	179
k_VrefMax_Volt_f32	0
k_VrefMin_Volt_f32	1.00135124

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Name	Input Value		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	3550023085		
target_GetSystemTime_uS_u32_CurrentTime	0		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	2.66611123	2.66611123	✓
Batt_Volt_M_f32	5.32190943	5.32190943	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	5.32190943	5.32190943	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	2.66611123	2.66611123	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	1.05327857	1.05327845	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.7875458	0.7875458	✓
SlowADCFItAcc_Cnt_M_u16	2033	2033	✓
SysCVSwitch_Volt_M_f32	1.05327857	1.05327845	✓
Temperature_Volt_M_f32	0.7875458	0.7875458	✓
VrefFltAcc_Cnt_M_u16	74	74	✓
NTC	0x46	0x46	✓
Param	0x01	0x01	✓
Status	0x01	0x01	✓

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.22 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	22.6603279		
Batt_Volt_M_f32	28.3988495		
DMADData_G_str.SlowADC_Cnt_u16[0]	659		
DMADData_G_str.SlowADC_Cnt_u16[1]	660		
DMADData_G_str.SlowADC_Cnt_u16[2]	661		
DMADData_G_str.SlowADC_Cnt_u16[3]	662		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	257		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	257		
SlowADCFItAcc_Cnt_M_u16	31759		
SysCVSwitch_Volt_M_f32	27.8346519		
Temperature_Volt_M_f32	1.45927286		
VrefFltAcc_Cnt_M_u16	157		
k_ReadAdcWaitTimeout_uS_u32	26338		
k_SlowADCValidDiag_Cnt_str.Threshold	192		
k_SlowADCValidDiag_Cnt_str.PStep	205		
k_SlowADCValidDiag_Cnt_str.NStep	126		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	75		
k_VrefDiag_Cnt_str.PStep	38		
k_VrefDiag_Cnt_str.NStep	180		
k_VrefMax_Volt_f32	6		
k_VrefMin_Volt_f32	1.64641285		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2374789753		
target_GetSystemTime_uS_u32_CurrentTime	4294967295		
Name	Actual Value	Expected Value	Result

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Name	Actual Value	Expected Value	Result
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCv	1.05739284	1.05739284	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.804639816	0.804639816	✓
SlowADCFItAcc_Cnt_M_u16	31255	31255	✓
SysCVSwitch_Volt_M_f32	1.05739284	1.05739284	✓
Temperature_Volt_M_f32	0.804639816	0.804639816	✓
VrefFitAcc_Cnt_M_u16	75	75	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.23 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	6.5345788		
Batt_Volt_M_f32	25.7201786		
DMADData_G_str.SlowADC_Cnt_u16[0]	673		
DMADData_G_str.SlowADC_Cnt_u16[1]	674		
DMADData_G_str.SlowADC_Cnt_u16[2]	675		
DMADData_G_str.SlowADC_Cnt_u16[3]	676		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	258		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC\	258		
SlowADCFitAcc_Cnt_M_u16	46568		
SysCVSwitch_Volt_M_f32	11.3360157		
Temperature_Volt_M_f32	4.18892241		
VrefFitAcc_Cnt_M_u16	158		
k_ReadAdcWaitTimeout_uS_u32	24183		
k_SlowADCValidDiag_Cnt_str.Threshold	232		
k_SlowADCValidDiag_Cnt_str.PStep	250		
k_SlowADCValidDiag_Cnt_str.NStep	145		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	76		
k_VrefDiag_Cnt_str.PStep	39		
k_VrefDiag_Cnt_str.NStep	181		
k_VrefMax_Volt_f32	1.53921175		
k_VrefMin_Volt_f32	3.92358184		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	1933342689		
target_GetSystemTime_uS_u32_CurrentTime	1298311081		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	2.78131342	2.78131342	✓
Batt_Volt_M_f32	5.55258036	5.55258036	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	5.55258036	5.55258036	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	2.78131342	2.78131342	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC\	1.06150723	1.06150723	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp\	0.821733832	0.821733832	✓
SlowADCFitAcc_Cnt_M_u16	45988	45988	✓
SysCVSwitch_Volt_M_f32	1.06150723	1.06150723	✓
Temperature_Volt_M_f32	0.821733832	0.821733832	✓
VrefFitAcc_Cnt_M_u16	76	76	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓



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Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 2.24 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	3.81823254			
Batt_Volt_M_f32	5.84874392			
DMADData_G_str.SlowADC_Cnt_u16[0]	687			
DMADData_G_str.SlowADC_Cnt_u16[1]	688			
DMADData_G_str.SlowADC_Cnt_u16[2]	689			
DMADData_G_str.SlowADC_Cnt_u16[3]	690			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	259			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16	259			
SlowADCFltAcc_Cnt_M_u16	43925			
SysCVSwitch_Volt_M_f32	2.70150685			
Temperature_Volt_M_f32	1.24109292			
VrefFltAcc_Cnt_M_u16	159			
k_ReadAdcWaitTimeout_uS_u32	43696			
k_SlowADCValidDiag_Cnt_str.Threshold	102			
k_SlowADCValidDiag_Cnt_str.PStep	185			
k_SlowADCValidDiag_Cnt_str.NStep	134			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	77			
k_VrefDiag_Cnt_str.PStep	40			
k_VrefDiag_Cnt_str.NStep	182			
k_VrefMax_Volt_f32	3			
k_VrefMin_Volt_f32	3.50306416			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	0			
target_GetSystemTime_uS_u32_CurrentTime	3634607182			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	2.83891463	2.83891463	✓	
Batt_Volt_M_f32	5.66791582	5.66791582	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	5.66791582	5.66791582	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	2.83891463	2.83891463	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16	1.06562161	1.06562161	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_TempSensorOffset_Volt_f32	0.838827848	0.838827848	✓	
SlowADCFltAcc_Cnt_M_u16	43389	43389	✓	
SysCVSwitch_Volt_M_f32	1.06562161	1.06562161	✓	
Temperature_Volt_M_f32	0.838827848	0.838827848	✓	
VrefFltAcc_Cnt_M_u16	77	77	✓	
NTC	0x46	0x46	✓	
Param	0x02	0x02	✓	
Status	0x01	0x01	✓	

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

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## Test Step 2.25 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	28.8084602		
Batt_Volt_M_f32	2.58003068		
DMADData_G_str.SlowADC_Cnt_u16[0]	701		
DMADData_G_str.SlowADC_Cnt_u16[1]	702		
DMADData_G_str.SlowADC_Cnt_u16[2]	703		
DMADData_G_str.SlowADC_Cnt_u16[3]	704		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	260		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	260		
SlowADCFltAcc_Cnt_M_u16	54914		
SysCVSwitch_Volt_M_f32	16.98283		
Temperature_Volt_M_f32	1.84607613		
VrefFitAcc_Cnt_M_u16	160		
k_ReadAdcWaitTimeout_uS_u32	24585		
k_SlowADCValidDiag_Cnt_str.Threshold	39		
k_SlowADCValidDiag_Cnt_str.PStep	107		
k_SlowADCValidDiag_Cnt_str.NStep	253		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	78		
k_VrefDiag_Cnt_str.PStep	41		
k_VrefDiag_Cnt_str.NStep	183		
k_VrefMax_Volt_f32	1.51302028		
k_VrefMin_Volt_f32	0		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	4294967295		
target_GetSystemTime_uS_u32_CurrentTime	3489753329		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	2.89651585	2.89651585	✔
Batt_Volt_M_f32	5.78325129	5.78325129	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	*none*	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	5.78325129	5.78325129	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	2.89651585	2.89651585	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	1.069736	1.069736	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.855921865	0.855921865	✔
SlowADCFltAcc_Cnt_M_u16	53902	53902	✔
SysCVSwitch_Volt_M_f32	1.069736	1.069736	✔
Temperature_Volt_M_f32	0.855921865	0.855921865	✔
VrefFitAcc_Cnt_M_u16	0	0	✔
NTC	0x46	0x46	✔
Param	0x00	0x00	✔
Status	0x00	0x00	✔

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.26 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	0.68984139
Batt_Volt_M_f32	13.6401043
DMADData_G_str.SlowADC_Cnt_u16[0]	225
DMADData_G_str.SlowADC_Cnt_u16[1]	226
DMADData_G_str.SlowADC_Cnt_u16[2]	227
DMADData_G_str.SlowADC_Cnt_u16[3]	228
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	261
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16.value	261

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Name	Input Value		
SlowADCFitAcc_Cnt_M_u16	1286		
SysCVSwitch_Volt_M_f32	21.9810658		
Temperature_Volt_M_f32	4.07619238		
VrefFitAcc_Cnt_M_u16	161		
k_ReadAdcWaitTimeout_uS_u32	26770		
k_SlowADCValidDiag_Cnt_str.Threshold	17		
k_SlowADCValidDiag_Cnt_str.PStep	217		
k_SlowADCValidDiag_Cnt_str.NStep	178		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	79		
k_VrefDiag_Cnt_str.PStep	42		
k_VrefDiag_Cnt_str.NStep	184		
k_VrefMax_Volt_f32	0.134790257		
k_VrefMin_Volt_f32	6		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	3576754686		
target_GetSystemTime_uS_u32_CurrentTime	861546824		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.938076198	0.938076138	✔
Batt_Volt_M_f32	1.86184454	1.86184442	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.86184454	1.86184442	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.938076198	0.938076138	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	1.07385039	1.07385027	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.274725288	0.274725288	✔
SlowADCFitAcc_Cnt_M_u16	574	574	✔
SysCVSwitch_Volt_M_f32	1.07385039	1.07385027	✔
Temperature_Volt_M_f32	0.274725288	0.274725288	✔
VrefFitAcc_Cnt_M_u16	79	79	✔
NTC	0x46	0x46	✔
Param	0x01	0x01	✔
Status	0x01	0x01	✔

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.27 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	24.8290863
Batt_Volt_M_f32	29.4313145
DMADData_G_str.SlowADC_Cnt_u16[0]	239
DMADData_G_str.SlowADC_Cnt_u16[1]	240
DMADData_G_str.SlowADC_Cnt_u16[2]	241
DMADData_G_str.SlowADC_Cnt_u16[3]	242
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	262
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	262
SlowADCFitAcc_Cnt_M_u16	35912
SysCVSwitch_Volt_M_f32	11.7482357
Temperature_Volt_M_f32	2.98473811
VrefFitAcc_Cnt_M_u16	162
k_ReadAdcWaitTimeout_uS_u32	61733
k_SlowADCValidDiag_Cnt_str.Threshold	197
k_SlowADCValidDiag_Cnt_str.PStep	230
k_SlowADCValidDiag_Cnt_str.NStep	255
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712658
k_VrefDiag_Cnt_str.Threshold	80

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Name	Input Value		
k_VrefDiag_Cnt_str.PStep	43		
k_VrefDiag_Cnt_str.NStep	185		
k_VrefMax_Volt_f32	4.07462263		
k_VrefMin_Volt_f32	0.641858637		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2722463454		
target_GetSystemTime_uS_u32_CurrentTime	57471248		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.995677352	0.995677292	✓
Batt_Volt_M_f32	1.97718	1.97717988	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.97718	1.97717988	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.995677352	0.995677292	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	1.07796478	1.07796466	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.291819304	0.291819304	✓
SlowADCFitAcc_Cnt_M_u16	34892	34892	✓
SysCVSwitch_Volt_M_f32	1.07796478	1.07796466	✓
Temperature_Volt_M_f32	0.291819304	0.291819304	✓
VrefFitAcc_Cnt_M_u16	80	80	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.28 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	9.189394		
Batt_Volt_M_f32	16.3501911		
DMADData_G_str.SlowADC_Cnt_u16[0]	253		
DMADData_G_str.SlowADC_Cnt_u16[1]	254		
DMADData_G_str.SlowADC_Cnt_u16[2]	255		
DMADData_G_str.SlowADC_Cnt_u16[3]	256		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	263		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	263		
SlowADCFitAcc_Cnt_M_u16	60285		
SysCVSwitch_Volt_M_f32	14.5291805		
Temperature_Volt_M_f32	1.63690341		
VrefFitAcc_Cnt_M_u16	163		
k_ReadAdcWaitTimeout_uS_u32	48478		
k_SlowADCValidDiag_Cnt_str.Threshold	247		
k_SlowADCValidDiag_Cnt_str.PStep	53		
k_SlowADCValidDiag_Cnt_str.NStep	1		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	81		
k_VrefDiag_Cnt_str.PStep	44		
k_VrefDiag_Cnt_str.NStep	186		
k_VrefMax_Volt_f32	3.08257222		
k_VrefMin_Volt_f32	2		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2033941355		
target_GetSystemTime_uS_u32_CurrentTime	3285270500		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	1.05327857	1.05327845	✓
Batt_Volt_M_f32	2.09251547	2.09251547	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓

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Name	Actual Value	Expected Value	Result
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	2.09251547	2.09251547	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.05327857	1.05327845	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	1.08207905	1.08207905	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.30891332	0.30891332	✓
SlowADCFltAcc_Cnt_M_u16	60281	60281	✓
SysCVSwitch_Volt_M_f32	1.08207905	1.08207905	✓
Temperature_Volt_M_f32	0.30891332	0.30891332	✓
VrefFltAcc_Cnt_M_u16	81	81	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 2.29 (Repeat Count = 1)				✔
Name		Input Value		
BattSwitched_Volt_M_f32		12.1762867		
Batt_Volt_M_f32		12.556304		
DMADData_G_str.SlowADC_Cnt_u16[0]		365		
DMADData_G_str.SlowADC_Cnt_u16[1]		366		
DMADData_G_str.SlowADC_Cnt_u16[2]		367		
DMADData_G_str.SlowADC_Cnt_u16[3]		368		
DtrmnElapsedTime_uS_u32(ElapsedTime)		target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)		target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value		264		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV		264		
SlowADCFltAcc_Cnt_M_u16		18022		
SysCVSwitch_Volt_M_f32		19.2443027		
Temperature_Volt_M_f32		4.47366524		
VrefFltAcc_Cnt_M_u16		0		
k_ReadAdcWaitTimeout_uS_u32		52013		
k_SlowADCValidDiag_Cnt_str.Threshold		30		
k_SlowADCValidDiag_Cnt_str.PStep		0		
k_SlowADCValidDiag_Cnt_str.NStep		100		
k_TempSensorOffset_Volt_f32		0		
k_TempSensorScale_Uls_f32		1		
k_VbattScale_Uls_f32		6.74712658		
k_VrefDiag_Cnt_str.Threshold		82		
k_VrefDiag_Cnt_str.PStep		45		
k_VrefDiag_Cnt_str.NStep		187		
k_VrefMax_Volt_f32		3.23682141		
k_VrefMin_Volt_f32		3.13711953		
k_VrefScale_Uls_f32		1		
k_VswitchScale_Uls_f32		3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime		3081270104		
target_GetSystemTime_uS_u32_CurrentTime		2133832437		
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	1.5140878	1.5140878	✔	
Batt_Volt_M_f32	3.01519942	3.01519942	✔	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✔	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✔	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	*none*	✔	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	3.01519942	3.01519942	✔	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.5140878	1.5140878	✔	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	1.08619344	1.08619344	✔	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.445665449	0.445665449	✔	
SlowADCFltAcc_Cnt_M_u16	17622	17622	✔	
SysCVSwitch_Volt_M_f32	1.08619344	1.08619344	✔	
Temperature_Volt_M_f32	0.445665449	0.445665449	✔	
VrefFltAcc_Cnt M_u16	45	45	✔	

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## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓

## Test Step 2.30 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	24.7913418		
Batt_Volt_M_f32	29.9216099		
DMADData_G_str.SlowADC_Cnt_u16[0]	113		
DMADData_G_str.SlowADC_Cnt_u16[1]	114		
DMADData_G_str.SlowADC_Cnt_u16[2]	115		
DMADData_G_str.SlowADC_Cnt_u16[3]	116		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	265		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	265		
SlowADCFltAcc_Cnt_M_u16	59599		
SysCVSwitch_Volt_M_f32	1.47977149		
Temperature_Volt_M_f32	3.93445253		
VrefFltAcc_Cnt_M_u16	65535		
k_ReadAdcWaitTimeout_uS_u32	41113		
k_SlowADCValidDiag_Cnt_str.Threshold	121		
k_SlowADCValidDiag_Cnt_str.PStep	255		
k_SlowADCValidDiag_Cnt_str.NStep	122		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	83		
k_VrefDiag_Cnt_str.PStep	46		
k_VrefDiag_Cnt_str.NStep	188		
k_VrefMax_Volt_f32	4.36457777		
k_VrefMin_Volt_f32	0.0738770589		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	1396056638		
target_GetSystemTime_uS_u32_CurrentTime	2176681352		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.477266818	0.477266818	✔
Batt_Volt_M_f32	0.939160526	0.939160466	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	*none*	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	0.939160526	0.939160466	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.477266818	0.477266818	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	1.09030783	1.09030783	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.137973145	0.137973145	✔
SlowADCFltAcc_Cnt_M_u16	59111	59111	✔
SysCVSwitch_Volt_M_f32	1.09030783	1.09030783	✔
Temperature_Volt_M_f32	0.137973145	0.137973145	✔
VrefFltAcc_Cnt_M_u16	65347	65347	✔

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓

## Test Step 2.31 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	21.2281227
Batt_Volt_M_f32	21.3614731
DMADData_G_str.SlowADC_Cnt_u16[0]	127
DMADData_G_str.SlowADC_Cnt_u16[1]	128

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Name	Input Value		
DMADData_G_str.SlowADC_Cnt_u16[2]	129		
DMADData_G_str.SlowADC_Cnt_u16[3]	130		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	266		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCv	266		
SlowADCFitAcc_Cnt_M_u16	15637		
SysCVSwitch_Volt_M_f32	19.4959545		
Temperature_Volt_M_f32	1.11849427		
VrefFitAcc_Cnt_M_u16	166		
k_ReadAdcWaitTimeout_uS_u32	53295		
k_SlowADCValidDiag_Cnt_str.Threshold	80		
k_SlowADCValidDiag_Cnt_str.PStep	4		
k_SlowADCValidDiag_Cnt_str.NStep	172		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	84		
k_VrefDiag_Cnt_str.PStep	47		
k_VrefDiag_Cnt_str.NStep	189		
k_VrefMax_Volt_f32	2.13537765		
k_VrefMin_Volt_f32	0.473402113		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	3847345397		
target_GetSystemTime_uS_u32_CurrentTime	3507376676		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.534868002	0.534868002	✔
Batt_Volt_M_f32	1.05449605	1.05449593	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.05449605	1.05449593	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.534868002	0.534868002	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCv	1.09442222	1.09442222	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.155067161	0.155067161	✔
SlowADCFitAcc_Cnt_M_u16	14949	14949	✔
SysCVSwitch_Volt_M_f32	1.09442222	1.09442222	✔
Temperature_Volt_M_f32	0.155067161	0.155067161	✔
VrefFitAcc_Cnt_M_u16			

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Name	Input Value		
k_SlowADCValidDiag_Cnt_str.PStep	186		
k_SlowADCValidDiag_Cnt_str.NStep	128		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	0		
k_VrefDiag_Cnt_str.PStep	48		
k_VrefDiag_Cnt_str.NStep	190		
k_VrefMax_Volt_f32	2.99047828		
k_VrefMin_Volt_f32	2.63544846		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	1498024395		
target_GetSystemTime_uS_u32_CurrentTime	2530847871		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.592469156	0.592469156	✔
Batt_Volt_M_f32	1.16983151	1.1698314	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.16983151	1.1698314	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.592469156	0.592469156	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	1.09853661	1.09853649	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.172161177	0.172161177	✔
SlowADCFitAcc_Cnt_M_u16	7483	7483	✔
SysCVSwitch_Volt_M_f32	1.09853661	1.09853649	✔
Temperature_Volt_M_f32	0.172161177	0.172161177	✔
VrefFitAcc_Cnt_M_u16	0	0	✔
NTC	0x46	0x46	✔
Param	0x02	0x02	✔
Status	0x01	0x01	✔

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 2.33 (Repeat Count = 1)	
Name	Input Value
BattSwitched_Volt_M_f32	8.3228569
Batt_Volt_M_f32	28.6493378
DMADData_G_str.SlowADC_Cnt_u16[0]	155
DMADData_G_str.SlowADC_Cnt_u16[1]	156
DMADData_G_str.SlowADC_Cnt_u16[2]	157
DMADData_G_str.SlowADC_Cnt_u16[3]	158
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5489
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5489
SlowADCFitAcc_Cnt_M_u16	59561
SysCVSwitch_Volt_M_f32	28.736084
Temperature_Volt_M_f32	4.16996622
VrefFitAcc_Cnt_M_u16	168
k_ReadAdcWaitTimeout_uS_u32	2840
k_SlowADCValidDiag_Cnt_str.Threshold	255
k_SlowADCValidDiag_Cnt_str.PStep	68
k_SlowADCValidDiag_Cnt_str.NStep	218
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712658
k_VrefDiag_Cnt_str.Threshold	255
k_VrefDiag_Cnt_str.PStep	49
k_VrefDiag_Cnt_str.NStep	191
k_VrefMax_Volt_f32	0.0864890367
k_VrefMin_Volt_f32	3.37638402
k_VrefScale_Uls_f32	1
k_VswitchScale_Uls_f32	3.36966825



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Name	Input Value		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	4205382334		
target_GetSystemTime_uS_u32_CurrentTime	2171724739		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.65007031	0.65007031	✓
Batt_Volt_M_f32	1.28516698	1.28516698	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	*none*	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.28516698	1.28516698	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.65007031	0.65007031	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCv	5.73131657	5.73131609	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.189255193	0.189255193	✓
SlowADCFItAcc_Cnt_M_u16	58689	58689	✓
SysCVSwitch_Volt_M_f32	5.73131657	5.73131609	✓
Temperature_Volt_M_f32	0.189255193	0.189255193	✓
VrefFitAcc_Cnt_M_u16	217	217	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓

Test Step 2.34 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	3.30420732			
Batt_Volt_M_f32	30.9742775			
DMADData_G_str.SlowADC_Cnt_u16[0]	169			
DMADData_G_str.SlowADC_Cnt_u16[1]	170			
DMADData_G_str.SlowADC_Cnt_u16[2]	171			
DMADData_G_str.SlowADC_Cnt_u16[3]	172			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5490			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCv	5490			
SlowADCFItAcc_Cnt_M_u16	39345			
SysCVSwitch_Volt_M_f32	24.1495571			
Temperature_Volt_M_f32	4.73801374			
VrefFitAcc_Cnt_M_u16	169			
k_ReadAdcWaitTimeout_uS_u32	60120			
k_SlowADCValidDiag_Cnt_str.Threshold	100			
k_SlowADCValidDiag_Cnt_str.PStep	121			
k_SlowADCValidDiag_Cnt_str.NStep	73			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	100			
k_VrefDiag_Cnt_str.PStep	50			
k_VrefDiag_Cnt_str.NStep	192			
k_VrefMax_Volt_f32	1.45514643			
k_VrefMin_Volt_f32	3.23836184			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	630440147			
target_GetSystemTime_uS_u32_CurrentTime	17904585			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	0.707671463	0.707671463	✓	
Batt_Volt_M_f32	1.40050244	1.40050244	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.40050244	1.40050244	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.707671463	0.707671463	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCv	5.73543072	5.73543024	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.206349209	0.206349209	✓	
SlowADCFItAcc_Cnt_M_u16	39053	39053	✓	
SysCVSwitch_Volt_M_f32	5.73543072	5.73543024	✓	
Temperature_Volt_M_f32	0.206349209	0.206349209	✓	
VrefFitAcc_Cnt_M_u16	100	100	✓	

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Name	Actual Value	Expected Value	Result
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 2.35 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	5.04460716			
Batt_Volt_M_f32	19.2410851			
DMADData_G_str.SlowADC_Cnt_u16[0]	183			
DMADData_G_str.SlowADC_Cnt_u16[1]	184			
DMADData_G_str.SlowADC_Cnt_u16[2]	185			
DMADData_G_str.SlowADC_Cnt_u16[3]	186			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5491			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5491			
SlowADCFltAcc_Cnt_M_u16	2309			
SysCVSwitch_Volt_M_f32	6.61069393			
Temperature_Volt_M_f32	4.74957466			
VrefFltAcc_Cnt_M_u16	170			
k_ReadAdcWaitTimeout_uS_u32	46206			
k_SlowADCValidDiag_Cnt_str.Threshold	150			
k_SlowADCValidDiag_Cnt_str.PStep	221			
k_SlowADCValidDiag_Cnt_str.NStep	69			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	88			
k_VrefDiag_Cnt_str.PStep	0			
k_VrefDiag_Cnt_str.NStep	193			
k_VrefMax_Volt_f32	3.03617787			
k_VrefMin_Volt_f32	4.20073986			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	3550023085			
target_GetSystemTime_uS_u32_CurrentTime	0			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	0.765272617	0.765272617	✓	
Batt_Volt_M_f32	1.51583803	1.51583791	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.51583803	1.51583791	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.765272617	0.765272617	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5.73954487	5.73954487	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.223443225	0.223443225	✓	
SlowADCFltAcc_Cnt_M_u16	2033	2033	✓	
SysCVSwitch_Volt_M_f32	5.73954487	5.73954487	✓	
Temperature_Volt_M_f32	0.223443225	0.223443225	✓	
VrefFltAcc_Cnt_M_u16	88	88	✓	
NTC	0x46	0x46	✓	
Param	0x02	0x02	✓	
Status	0x01	0x01	✓	

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

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Test Step 2.36 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	3.9107058			
Batt_Volt_M_f32	17.7402134			
DMADData_G_str.SlowADC_Cnt_u16[0]	197			
DMADData_G_str.SlowADC_Cnt_u16[1]	198			
DMADData_G_str.SlowADC_Cnt_u16[2]	199			
DMADData_G_str.SlowADC_Cnt_u16[3]	200			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5492			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5492			
SlowADCFltAcc_Cnt_M_u16	31759			
SysCVSwitch_Volt_M_f32	11.372323			
Temperature_Volt_M_f32	2.70241213			
VrefFltAcc_Cnt_M_u16	171			
k_ReadAdcWaitTimeout_uS_u32	26338			
k_SlowADCValidDiag_Cnt_str.Threshold	192			
k_SlowADCValidDiag_Cnt_str.PStep	205			
k_SlowADCValidDiag_Cnt_str.NStep	126			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	89			
k_VrefDiag_Cnt_str.PStep	255			
k_VrefDiag_Cnt_str.NStep	194			
k_VrefMax_Volt_f32	0.449034721			
k_VrefMin_Volt_f32	1.6331749			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2374789753			
target_GetSystemTime_uS_u32_CurrentTime	4294967295			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	0.822873831	0.822873831	✓	
Batt_Volt_M_f32	1.63117361	1.63117337	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.63117361	1.63117337	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.822873831	0.822873831	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5.74365902	5.74365902	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.240537256	0.240537241	✓	
SlowADCFltAcc_Cnt_M_u16	31255	31255	✓	
SysCVSwitch_Volt_M_f32	5.74365902	5.74365902	✓	
Temperature_Volt_M_f32	0.240537256	0.240537241	✓	
VrefFltAcc_Cnt_M_u16	89	89	✓	
NTC	0x46	0x46	✓	
Param	0x02	0x02	✓	
Status	0x01	0x01	✓	

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 2.37 (Repeat Count = 1)	
Name	Input Value
BattSwitched_Volt_M_f32	23.0790176
Batt_Volt_M_f32	26.1974277
DMADData_G_str.SlowADC_Cnt_u16[0]	211
DMADData_G_str.SlowADC_Cnt_u16[1]	212
DMADData_G_str.SlowADC_Cnt_u16[2]	213
DMADData_G_str.SlowADC_Cnt_u16[3]	214
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime

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Name	Input Value
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5493
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5493
SlowADCFltAcc_Cnt_M_u16	46568
SysCVSwitch_Volt_M_f32	8.35024643
Temperature_Volt_M_f32	3.71041822
VrefFltAcc_Cnt_M_u16	172
k_ReadAdcWaitTimeout_uS_u32	24183
k_SlowADCValidDiag_Cnt_str.Threshold	232
k_SlowADCValidDiag_Cnt_str.PStep	250
k_SlowADCValidDiag_Cnt_str.NStep	145
k_TempSensorOffset_Volt_f32	0
k_TempSensorScale_Uls_f32	1
k_VbattScale_Uls_f32	6.74712658
k_VrefDiag_Cnt_str.Threshold	90
k_VrefDiag_Cnt_str.PStep	4
k_VrefDiag_Cnt_str.NStep	195
k_VrefMax_Volt_f32	0.389562219
k_VrefMin_Volt_f32	0.177392766
k_VrefScale_Uls_f32	1
k_VswitchScale_Uls_f32	3.36966825
target_DtrmnElapsedTime_uS_u32_ElapsedTime	1933342689
target_GetSystemTime_uS_u32_CurrentTime	1298311081

Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.880475044	0.880474985	✓
Batt_Volt_M_f32	1.74650908	1.74650896	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	*none*	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.74650908	1.74650896	✓
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.880475044	0.880474985	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5.74777365	5.74777365	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.257631272	0.257631272	✓
SlowADCFltAcc_Cnt_M_u16	45988	45988	✓
SysCVSwitch_Volt_M_f32	5.74777365	5.74777365	✓
Temperature_Volt_M_f32	0.257631272	0.257631272	✓
VrefFltAcc_Cnt_M_u16	0	0	✓
NTC	0x46	0x46	✓
Param	0x00	0x00	✓
Status	0x00	0x00	✓

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.38 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	6.05874729
Batt_Volt_M_f32	29.5515881
DMADData_G_str.SlowADC_Cnt_u16[0]	225
DMADData_G_str.SlowADC_Cnt_u16[1]	226
DMADData_G_str.SlowADC_Cnt_u16[2]	227
DMADData_G_str.SlowADC_Cnt_u16[3]	228
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5494
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5494
SlowADCFltAcc_Cnt_M_u16	43925
SysCVSwitch_Volt_M_f32	26.460104
Temperature_Volt_M_f32	0.170259282
VrefFltAcc_Cnt_M_u16	173
k_ReadAdcWaitTimeout_uS_u32	43696
k_SlowADCValidDiag_Cnt_str.Threshold	102
k_SlowADCValidDiag_Cnt_str.PStep	185
k_SlowADCValidDiag_Cnt_str.NStep	134
k_TempSensorOffset_Volt_f32	0

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Name	Input Value		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	91		
k_VrefDiag_Cnt_str.PStep	54		
k_VrefDiag_Cnt_str.NStep	0		
k_VrefMax_Volt_f32	2.05074668		
k_VrefMin_Volt_f32	4.84529829		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	0		
target_GetSystemTime_uS_u32_CurrentTime	3634607182		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.938076198	0.938076138	✓
Batt_Volt_M_f32	1.86184454	1.86184442	✓
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓
Rte_Task_2ms_10.Rte_TB.Rte_IoHwAbstractionUsr_Batt_Volt_f32.value	1.86184454	1.86184442	✓
Rte_Task_2ms_10.Rte_TB.Rte_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.938076198	0.938076138	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC	5.7518878	5.7518878	✓
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.274725288	0.274725288	✓
SlowADCFltAcc_Cnt_M_u16	43389	43389	✓
SysCVSwitch_Volt_M_f32	5.7518878	5.7518878	✓
Temperature_Volt_M_f32	0.274725288	0.274725288	✓
VrefFltAcc_Cnt_M_u16	91	91	✓
NTC	0x46	0x46	✓
Param	0x02	0x02	✓
Status	0x01	0x01	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

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## Test Step 2.39 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	1.28014803		
Batt_Volt_M_f32	21.956377		
DMADData_G_str.SlowADC_Cnt_u16[0]	239		
DMADData_G_str.SlowADC_Cnt_u16[1]	240		
DMADData_G_str.SlowADC_Cnt_u16[2]	241		
DMADData_G_str.SlowADC_Cnt_u16[3]	242		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5495		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5495		
SlowADCFitAcc_Cnt_M_u16	54914		
SysCVSwitch_Volt_M_f32	22.2590008		
Temperature_Volt_M_f32	1.9258697		
VrefFitAcc_Cnt_M_u16	174		
k_ReadAdcWaitTimeout_uS_u32	24585		
k_SlowADCValidDiag_Cnt_str.Threshold	39		
k_SlowADCValidDiag_Cnt_str.PStep	107		
k_SlowADCValidDiag_Cnt_str.NStep	253		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	152		
k_VrefDiag_Cnt_str.PStep	55		
k_VrefDiag_Cnt_str.NStep	255		
k_VrefMax_Volt_f32	2.45898724		
k_VrefMin_Volt_f32	2.23474526		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	4294967295		
target_GetSystemTime_uS_u32_CurrentTime	3489753329		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0.995677352	0.995677292	✔
Batt_Volt_M_f32	1.97718	1.97717988	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	1.97718	1.97717988	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0.995677352	0.995677292	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5.75600243	5.75600243	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.291819304	0.291819304	✔
SlowADCFitAcc_Cnt_M_u16	53902	53902	✔
SysCVSwitch_Volt_M_f32	5.75600243	5.75600243	✔
Temperature_Volt_M_f32	0.291819304	0.291819304	✔
VrefFitAcc_Cnt_M_u16	152	152	✔
NTC	0x46	0x46	✔
Param	0x02	0x02	✔
Status	0x01	0x01	✔

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

## Test Step 2.40 (Repeat Count = 1)

Name	Input Value
BattSwitched_Volt_M_f32	7.45811367
Batt_Volt_M_f32	15.4351273
DMADData_G_str.SlowADC_Cnt_u16[0]	253
DMADData_G_str.SlowADC_Cnt_u16[1]	254
DMADData_G_str.SlowADC_Cnt_u16[2]	255
DMADData_G_str.SlowADC_Cnt_u16[3]	256
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5496
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16.value	5496

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Name	Input Value		
SlowADCFitAcc_Cnt_M_u16	1286		
SysCVSwitch_Volt_M_f32	18.6822491		
Temperature_Volt_M_f32	3.29033518		
VrefFitAcc_Cnt_M_u16	175		
k_ReadAdcWaitTimeout_uS_u32	26770		
k_SlowADCValidDiag_Cnt_str.Threshold	17		
k_SlowADCValidDiag_Cnt_str.PStep	217		
k_SlowADCValidDiag_Cnt_str.NStep	178		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	153		
k_VrefDiag_Cnt_str.PStep	56		
k_VrefDiag_Cnt_str.NStep	1		
k_VrefMax_Volt_f32	2.72578239		
k_VrefMin_Volt_f32	3.16318583		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	3576754686		
target_GetSystemTime_uS_u32_CurrentTime	861546824		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	1.05327857	1.05327845	✔
Batt_Volt_M_f32	2.09251547	2.09251547	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	2.09251547	2.09251547	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.05327857	1.05327845	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5.76011658	5.76011658	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.30891332	0.30891332	✔
SlowADCFitAcc_Cnt_M_u16	574	574	✔
SysCVSwitch_Volt_M_f32	5.76011658	5.76011658	✔
Temperature_Volt_M_f32	0.30891332	0.30891332	✔
VrefFitAcc_Cnt_M_u16	153	153	✔
NTC	0x46	0x46	✔
Param	0x02	0x02	✔
Status	0x01	0x01	✔

## Test Step Call Trace

Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

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## Test Case 3: Path Test

<b>Specification</b>	Performance Metrics (With "None" Instrumentation and WithPS Environment) CPU Cycles:  TS 3.1 6661.00 Cycles TS 3.2 1782.00 Cycles TS 3.3 6636.00 Cycles TS 3.4 1179.00 Cycles TS 3.5 6668.00 Cycles TS 3.6 1206.00 Cycles
<b>Description</b>	Vector Description:  TS3.1"( DataValid_Cnt_T_lgc == TRUE ) ==> TRUE ( (Vref_Volt_T_f32 > k_VrefMax_Volt_f32)==> FALSE    (Vref_Volt_T_f32 < k_VrefMin_Volt_f32)==> FALSE ) (VrefFitAcc_Cnt_M_u16> k_VrefDiag_Cnt_str.NStep) ==> FALSE ( VrefFitAcc_Cnt_M_u16 == 0u )==> TRUE" TS3.2"( DataValid_Cnt_T_lgc == TRUE )==> FALSE ( (Vref_Volt_T_f32 > k_VrefMax_Volt_f32)==> FALSE    (Vref_Volt_T_f32 < k_VrefMin_Volt_f32)==> TRUE )" TS3.3"(VrefFitAcc_Cnt_M_u16<( k_VrefDiag_Cnt_str.Threshold - k_VrefDiag_Cnt_str.Pstep)) ==> FALSE (VrefFitAcc_Cnt_M_u16> k_VrefDiag_Cnt_str.Threshold) ==> TRUE ( Vref_Volt_T_f32 > k_VrefMax_Volt_f32 )==> FALSE" TS3.4"(VrefFitAcc_Cnt_M_u16> k_VrefDiag_Cnt_str.NStep) ==> TRUE ( VrefFitAcc_Cnt_M_u16 == 0u )==> FALSE" TS3.5"( (Vref_Volt_T_f32 > k_VrefMax_Volt_f32)==> TRUE    (Vref_Volt_T_f32 < k_VrefMin_Volt_f32) ) ( Vref_Volt_T_f32 > k_VrefMax_Volt_f32 )==> TRUE" TS3.6"(VrefFitAcc_Cnt_M_u16<( k_VrefDiag_Cnt_str.Threshold - k_VrefDiag_Cnt_str.Pstep)) ==> TRUE (VrefFitAcc_Cnt_M_u16> k_VrefDiag_Cnt_str.Threshold) ==> FALSE"

## Test Step 3.1 (Repeat Count = 1)

Name	Input Value		
BattSwitched_Volt_M_f32	0		
Batt_Volt_M_f32	0		
DMADData_G_str.SlowADC_Cnt_u16[0]	0		
DMADData_G_str.SlowADC_Cnt_u16[1]	0		
DMADData_G_str.SlowADC_Cnt_u16[2]	0		
DMADData_G_str.SlowADC_Cnt_u16[3]	0		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	0		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	0		
SlowADCFitAcc_Cnt_M_u16	0		
SysCVSwitch_Volt_M_f32	0		
Temperature_Volt_M_f32	0		
VrefFitAcc_Cnt_M_u16	0		
k_ReadAdcWaitTimeout_uS_u32	0		
k_SlowADCValidDiag_Cnt_str.Threshold	0		
k_SlowADCValidDiag_Cnt_str.PStep	0		
k_SlowADCValidDiag_Cnt_str.NStep	0		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	0		
k_VrefDiag_Cnt_str.PStep	0		
k_VrefDiag_Cnt_str.NStep	0		
k_VrefMax_Volt_f32	0		
k_VrefMin_Volt_f32	0		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	0		
target_GetSystemTime_uS_u32_CurrentTime	0		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	0	0	✔
Batt_Volt_M_f32	0	0	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	0	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	0	0	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	0	0	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	0	0	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0	0	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	0	0	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0	0	✔
SlowADCFitAcc_Cnt_M_u16	0	0	✔
SysCVSwitch_Volt_M_f32	0	0	✔
Temperature_Volt_M_f32	0	0	✔
VrefFitAcc_Cnt_M_u16	0	0	✔
NTC	0x46	0x46	✔



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Name	Actual Value	Expected Value	Result
Param	0x00	0x00	
Status	0x00	0x00	✓

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 3.2 (Repeat Count = 1)					✓
Name		Input Value			
BattSwitched_Volt_M_f32		31			
Batt_Volt_M_f32		31			
DMADData_G_str.SlowADC_Cnt_u16[0]		65535			
DMADData_G_str.SlowADC_Cnt_u16[1]		65535			
DMADData_G_str.SlowADC_Cnt_u16[2]		65535			
DMADData_G_str.SlowADC_Cnt_u16[3]		65535			
DtrmnElapsedTime_uS_u32(ElapsedTime)		target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)		target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value		65535			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV		65535			
SlowADCFltAcc_Cnt_M_u16		65535			
SysCVSwitch_Volt_M_f32		31			
Temperature_Volt_M_f32		5			
VrefFltAcc_Cnt_M_u16		65535			
k_ReadAdcWaitTimeout_uS_u32		65535			
k_SlowADCValidDiag_Cnt_str.Threshold		255			
k_SlowADCValidDiag_Cnt_str.PStep		255			
k_SlowADCValidDiag_Cnt_str.NStep		255			
k_TempSensorOffset_Volt_f32		0			
k_TempSensorScale_Uls_f32		1			
k_VbattScale_Uls_f32		6.74712658			
k_VrefDiag_Cnt_str.Threshold		255			
k_VrefDiag_Cnt_str.PStep		255			
k_VrefDiag_Cnt_str.NStep		255			
k_VrefMax_Volt_f32		6			
k_VrefMin_Volt_f32		6			
k_VrefScale_Uls_f32		1			
k_VswitchScale_Uls_f32		3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime		4294967295			
target_GetSystemTime_uS_u32_CurrentTime		4294967295			
Name	Actual Value	Expected Value	Result		
BattSwitched_Volt_M_f32	31	31	✓		
Batt_Volt_M_f32	31	31	✓		
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	54	✓		
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	32	✓		
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓		
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	31	31	✓		
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	31	31	✓		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	31	31	✓		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	5	5	✓		
SlowADCFltAcc_Cnt_M_u16	255	255	✓		
SysCVSwitch_Volt_M_f32	31	31	✓		
Temperature_Volt_M_f32	5	5	✓		
VrefFltAcc_Cnt_M_u16	65535	65535	✓		

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Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
DtrmnElapsedTime_uS_u32	1	DtrmnElapsedTime_uS_u32	1	✓
NxtrDiagMgr10_ReportNTCStatus	1	NxtrDiagMgr10_ReportNTCStatus	1	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓

Test Step 3.3 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	28.0038395			
Batt_Volt_M_f32	4.64012289			
DMADData_G_str.SlowADC_Cnt_u16[0]	0			
DMADData_G_str.SlowADC_Cnt_u16[1]	0			
DMADData_G_str.SlowADC_Cnt_u16[2]	0			
DMADData_G_str.SlowADC_Cnt_u16[3]	0			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	5246			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC\	5246			
SlowADCFltAcc_Cnt_M_u16	0			
SysCVSwitch_Volt_M_f32	30.3865681			
Temperature_Volt_M_f32	2.34604096			
VrefFltAcc_Cnt_M_u16	524			
k_ReadAdcWaitTimeout_uS_u32	400			
k_SlowADCValidDiag_Cnt_str.Threshold	119			
k_SlowADCValidDiag_Cnt_str.PStep	84			
k_SlowADCValidDiag_Cnt_str.NStep	166			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	25			
k_VrefDiag_Cnt_str.PStep	157			
k_VrefDiag_Cnt_str.NStep	54			
k_VrefMax_Volt_f32	0.398358107			
k_VrefMin_Volt_f32	2.09247947			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	2157471337			
target_GetSystemTime_uS_u32_CurrentTime	3826103446			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	0	0	✓	
Batt_Volt_M_f32	0	0	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	0	0	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	0	0	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysC\	4.73152447	4.73152447	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0	0	✓	
SlowADCFltAcc_Cnt_M_u16	0	0	✓	
SysCVSwitch_Volt_M_f32	4.73152447	4.73152447	✓	
Temperature_Volt_M_f32	0	0	✓	
VrefFltAcc_Cnt_M_u16	25	25	✓	
NTC	0x46	0x46	✓	
Param	0x02	0x02	✓	
Status	0x01	0x01	✓	

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Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓

Test Step 3.4 (Repeat Count = 1)				
Name	Input Value			
BattSwitched_Volt_M_f32	3.13798022			
Batt_Volt_M_f32	1.27581835			
DMADData_G_str.SlowADC_Cnt_u16[0]	379			
DMADData_G_str.SlowADC_Cnt_u16[1]	380			
DMADData_G_str.SlowADC_Cnt_u16[2]	381			
DMADData_G_str.SlowADC_Cnt_u16[3]	382			
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime			
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime			
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	603			
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16	18022			
SysCVSwitch_Volt_M_f32	0			
Temperature_Volt_M_f32	1.2864784			
VrefFitAcc_Cnt_M_u16	24588			
k_ReadAdcWaitTimeout_uS_u32	52013			
k_SlowADCValidDiag_Cnt_str.Threshold	30			
k_SlowADCValidDiag_Cnt_str.PStep	0			
k_SlowADCValidDiag_Cnt_str.NStep	100			
k_TempSensorOffset_Volt_f32	0			
k_TempSensorScale_Uls_f32	1			
k_VbattScale_Uls_f32	6.74712658			
k_VrefDiag_Cnt_str.Threshold	55			
k_VrefDiag_Cnt_str.PStep	187			
k_VrefDiag_Cnt_str.NStep	160			
k_VrefMax_Volt_f32	2.37490797			
k_VrefMin_Volt_f32	0.416241318			
k_VrefScale_Uls_f32	1			
k_VswitchScale_Uls_f32	3.36966825			
target_DtrmnElapsedTime_uS_u32_ElapsedTime	3081270104			
target_GetSystemTime_uS_u32_CurrentTime	2133832437			
Name	Actual Value	Expected Value	Result	
BattSwitched_Volt_M_f32	1.57168901	1.57168901	✓	
Batt_Volt_M_f32	3.13053489	3.13053489	✓	
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✓	
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	*none*	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	3.13053489	3.13053489	✓	
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.57168901	1.57168901	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCVSwitchADC_Cnt_u16	2.48096466	2.48096442	✓	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_TempSensorOffset_Volt_f32	0.462759465	0.462759465	✓	
SlowADCFitAcc_Cnt_M_u16	17622	17622	✓	
SysCVSwitch_Volt_M_f32	2.48096466	2.48096442	✓	
Temperature_Volt_M_f32	0.462759465	0.462759465	✓	
VrefFitAcc_Cnt_M_u16	24428	24428	✓	

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓

Test Step 3.5 (Repeat Count = 1)	
Name	Input Value
BattSwitched_Volt_M_f32	30.6357689
Batt_Volt_M_f32	29.3858128
DMADData_G_str.SlowADC_Cnt_u16[0]	449

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Name	Input Value		
DMADData_G_str.SlowADC_Cnt_u16[1]	450		
DMADData_G_str.SlowADC_Cnt_u16[2]	451		
DMADData_G_str.SlowADC_Cnt_u16[3]	452		
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime		
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime		
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	58746		
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	58746		
SlowADCFltAcc_Cnt_M_u16	39345		
SysCVSwitch_Volt_M_f32	16.5102043		
Temperature_Volt_M_f32	2.64551282		
VrefFltAcc_Cnt_M_u16	24593		
k_ReadAdcWaitTimeout_uS_u32	60120		
k_SlowADCValidDiag_Cnt_str.Threshold	100		
k_SlowADCValidDiag_Cnt_str.PStep	121		
k_SlowADCValidDiag_Cnt_str.NStep	73		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	60		
k_VrefDiag_Cnt_str.PStep	192		
k_VrefDiag_Cnt_str.NStep	165		
k_VrefMax_Volt_f32	0.158807486		
k_VrefMin_Volt_f32	1.85650408		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	630440147		
target_GetSystemTime_uS_u32_CurrentTime	17904585		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	1.85969484	1.85969484	✔
Batt_Volt_M_f32	3.70721269	3.70721221	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	1	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	3.70721269	3.70721221	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.85969484	1.85969484	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	5.76834536	5.76834536	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.548229575	0.548229575	✔
SlowADCFltAcc_Cnt_M_u16	39053	39053	✔
SysCVSwitch_Volt_M_f32	5.76834536	5.76834536	✔
Temperature_Volt_M_f32	0.548229575	0.548229575	✔
VrefFltAcc_Cnt_M_u16	60	60	✔
NTC	0x46	0x46	✔
Param	0x01	0x01	✔
Status	0x01	0x01	✔

Test Step Call Trace					✓
Actual Function	Count	Expected Function	Count	Result	
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓	
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓	
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓	
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓	
NxtrDiagMgr10_SetNTCStatus	1	NxtrDiagMgr10_SetNTCStatus	1	✓	

Test Step 3.6 (Repeat Count = 1)		✓
Name	Input Value	
BattSwitched_Volt_M_f32	12.1762867	
Batt_Volt_M_f32	12.556304	
DMADData_G_str.SlowADC_Cnt_u16[0]	365	
DMADData_G_str.SlowADC_Cnt_u16[1]	366	
DMADData_G_str.SlowADC_Cnt_u16[2]	367	
DMADData_G_str.SlowADC_Cnt_u16[3]	368	
DtrmnElapsedTime_uS_u32(ElapsedTime)	target_DtrmnElapsedTime_uS_u32_ElapsedTime	
GetSystemTime_uS_u32(CurrentTime)	target_GetSystemTime_uS_u32_CurrentTime	
Rte_Task_2ms_10.Rte_TB.Rte_I_CDDInterface_SysCVSwitchADC_Cnt_u16.value	264	
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	264	
SlowADCFltAcc_Cnt_M_u16	18022	
SysCVSwitch_Volt_M_f32	19.2443027	
Temperature_Volt_M_f32	4.47366524	
VrefFltAcc_Cnt_M_u16	0	
k_ReadAdcWaitTimeout_uS_u32	52013	

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Name	Input Value		
k_SlowADCValidDiag_Cnt_str.Threshold	30		
k_SlowADCValidDiag_Cnt_str.PStep	0		
k_SlowADCValidDiag_Cnt_str.NStep	100		
k_TempSensorOffset_Volt_f32	0		
k_TempSensorScale_Uls_f32	1		
k_VbattScale_Uls_f32	6.74712658		
k_VrefDiag_Cnt_str.Threshold	82		
k_VrefDiag_Cnt_str.PStep	45		
k_VrefDiag_Cnt_str.NStep	187		
k_VrefMax_Volt_f32	3.23682141		
k_VrefMin_Volt_f32	3.13711953		
k_VrefScale_Uls_f32	1		
k_VswitchScale_Uls_f32	3.36966825		
target_DtrmnElapsedTime_uS_u32_ElapsedTime	3081270104		
target_GetSystemTime_uS_u32_CurrentTime	2133832437		
Name	Actual Value	Expected Value	Result
BattSwitched_Volt_M_f32	1.5140878	1.5140878	✔
Batt_Volt_M_f32	3.01519942	3.01519942	✔
NxtrDiagMgr10_ReportNTCStatus(NTC_Cnt_T_enum)	54	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Param_Cnt_T_u08)	32	*none*	✔
NxtrDiagMgr10_ReportNTCStatus(Status_Cnt_T_enum)	1	*none*	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_Batt_Volt_f32.value	3.01519942	3.01519942	✔
Rte_Task_2ms_10.Rte_TB.Rte_I_IoHwAbstractionUsr_BattSwitched_Volt_f32.value	1.5140878	1.5140878	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_SysCV	1.08619344	1.08619344	✔
Rte_Task_2ms_10.Rte_RB.Rte_IoHwAbstractionUsr_IoHwAb_ReadAdc.Rte_Temp	0.445665449	0.445665449	✔
SlowADCFitAcc_Cnt_M_u16	17622	17622	✔
SysCVSwitch_Volt_M_f32	1.08619344	1.08619344	✔
Temperature_Volt_M_f32	0.445665449	0.445665449	✔
VrefFitAcc_Cnt_M_u16	45	45	✔

Test Step Call Trace				
Actual Function	Count	Expected Function	Count	Result
IoHwAb_SlowADCGroupValidity	1	IoHwAb_SlowADCGroupValidity	1	✓
GetSystemTime_uS_u32	1	GetSystemTime_uS_u32	1	✓
DtrmnElapsedTime_uS_u32	4	DtrmnElapsedTime_uS_u32	4	✓
TWrapC_Dma_InvalidateSlowADCGroup	1	TWrapC_Dma_InvalidateSlowADCGroup	1	✓