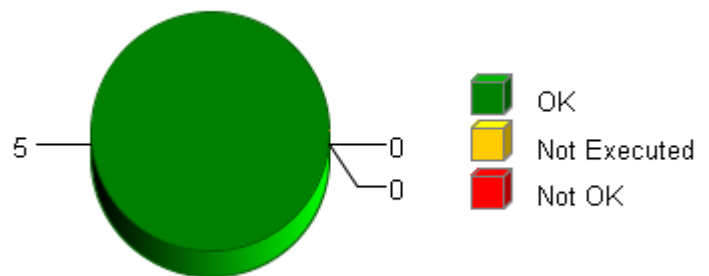


Summary

Total Test Objects: 5
Successful: 5
Failed: 0
Not Executed: 0
Date: 2014-09-19
Time: 20:50:58+0530

Overall Test Object Results (including Coverage)



Selected Project Items

Test Object "CBD_UnitTest/VehDyn/Autocenter_f32"
Test Object "CBD_UnitTest/VehDyn/VehDyn_Init1"
Test Object "CBD_UnitTest/VehDyn/VehDyn_Per1"
Test Object "CBD_UnitTest/VehDyn/VehDyn_SCom"
Test Object "CBD_UnitTest/VehDyn/VehDyn_Trns1"

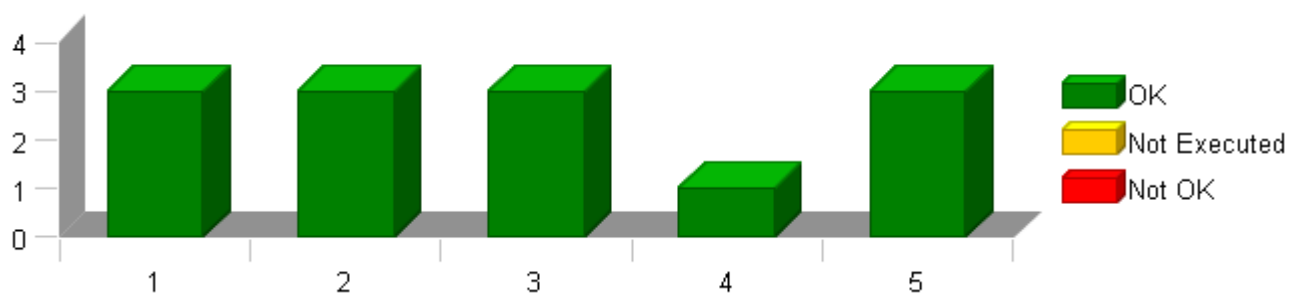
Used Test Environments

TI TMS 570 PLS UDE (Default)

Batch Operation Settings

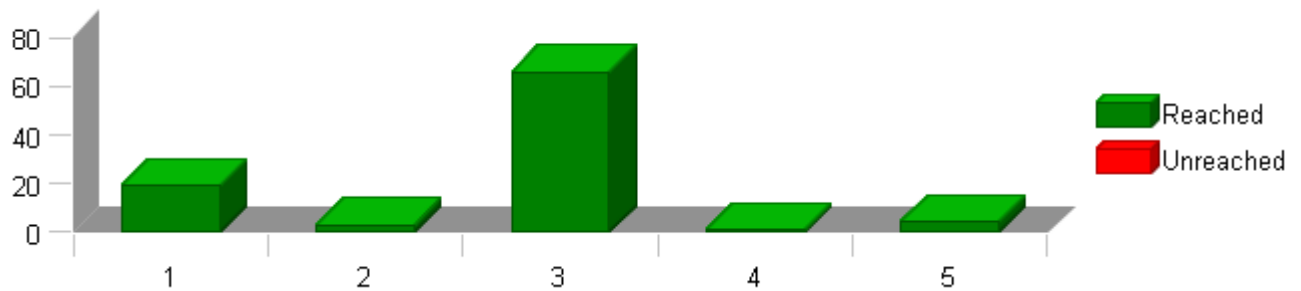
Check Interface: No
Generate Driver: Yes
Execute Test: Yes
Create New Test Run: No
Instrumentation: Test Object Only
Coverage: Statement Coverage, Branch Coverage, Modified Condition / Decision Coverage, Multiple Condition Coverage

Test Case Results for Each Test Object (without Coverage)



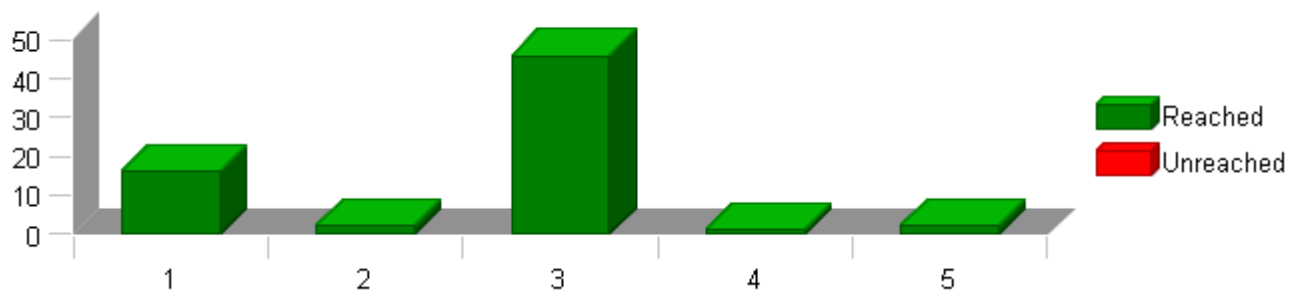
The table above shows each test object on the x axis and the number of test cases of the respective test object on the y axis. Each bar is divided into passed, not executed and failed test cases. The test case results do not take into account any coverage result (i.e. if all test cases of a test object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

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



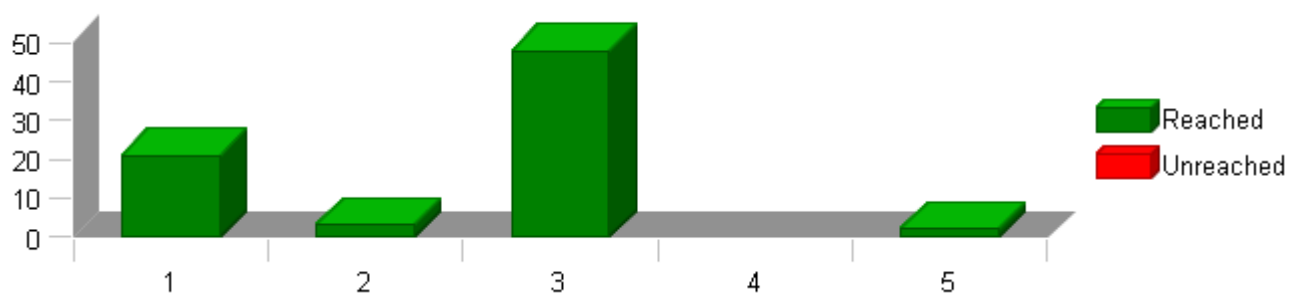
The table above shows each test object on the x axis and the number of statements of the respective test object on the y axis. Each bar is divided into reached statements (i.e. statements that have been executed during the test) and unreached statements.

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



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

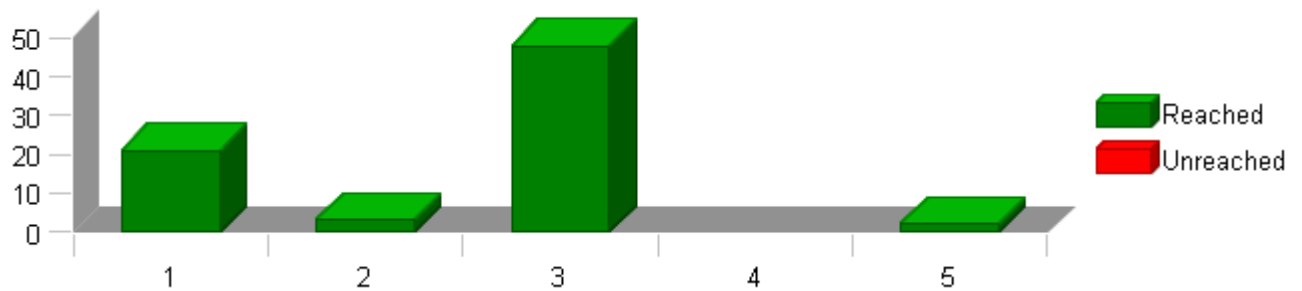
MC/DC Coverage: Total Condition Combinations for Each Test Object



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

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

MCC Coverage: Total Condition Combinations for Each Test Object



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

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

Test Object List

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

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

No.	Name	C0	C1	MC/DC	MCC	Test Cases	Result
	VehDyn	100 %	100 %	100 %	100 %	13 of 13 passed	✓
	CBD_UnitTest	100 %	100 %	100 %	100 %	13 of 13 passed	✓
	VehDyn	100 %	100 %	100 %	100 %	13 of 13 passed	✓
1	Autocenter_f32	100 %	100 %	100 %	100 %	3 of 3 passed	✓
2	VehDyn_Init1	100 %	100 %	100 %	100 %	3 of 3 passed	✓
3	VehDyn_Per1	100 %	100 %	100 %	100 %	3 of 3 passed	✓
4	VehDyn_SCom	100 %	100 %	-	-	1 of 1 passed	✓
5	VehDyn_Trns1	100 %	100 %	100 %	100 %	3 of 3 passed	✓

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Autocenter_f32



Project	VehDyn
Module	VehDyn
Test Object	Autocenter_f32

Instrumentation: Test Object Only

Statement (C0) 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\VehDyn
Configuration File	D:\Synergy_Work_Area\VehDyn\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)\VehDyn\src\Ap_VehDyn.c
Compiler Options	-D_DATA_ACCESS= -Dconst= -Dstatic= -Dexpf=exp -I\$(PROJECTROOT)\VehDyn\utp\contract\Ap_VehDyn -I\$(PROJECTROOT)\VehDyn\utp\contract -I\$(PROJECTROOT)\NtrLib\include -I\$(PROJECTROOT)\StdDef\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include

Comments/Description/Specification

Name	Text
Module 'VehDyn'	<p>*****UNIT TEST INFORMATION*****</p> <p>Name of Tester:Sunita Kore Code File(s) Under Test:Ap_VehDyn.c Code File(s) Version:3 Module Design Document:VehDyn_MDD.docx Module Design Document Version:4 Data Dictionary Version:5 Unit Test Plan Version:2 Optimization Level:Level 2 Compiler (CodeGen) Version:TMS470_4.9.5 Model Type:Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.30 Total FLASH Used (Bytes):2054 Total RAM Used (Bytes):188 Total CALS Used (Bytes):107 Special Test Requirements: Test Date:9/19/2014 Comments:"NOTE1: Inline function defined in ""GlobalMacro.h"" are not unit tested.</p> <p>NOTE2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference.</p> <p>NOTE3:Regarding DD Modification:- DD: Received Version: 4 Modified version: 5 Range of variables "VehDyn_MinOffset_HwDeg_M_f32" and "VehDyn_MaxOffset_HwDeg_M_f32" are updated in DD with highlighted portion.</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

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Autocenter_f32



Attributes	
Name	Value
Linker File	\$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 3.2
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\VehDyn\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

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Autocenter_f32



Test Case 1: Metrics Test

Specification	Performance Metrics: (With "None" Instrumentation and "WithPS" Environment) CPU Cycles: TS1.1 680.00 Cycles Shortest Execution Path TS1.2 1810.00 Cycles Longest Execution Path
Description	Vector Description: TS1.1"Shortest Execution Path=> if((Abs_f32_m(MotorVelCRF_MtrRadpS_T_f32) <= AutoCntr_Cnt_T_str->MtrVel_MtrRadpS_f32) && (VehicleSpeed_Kph_T_f32 >= AutoCntr_Cnt_T_str->VehSpd_kph_f32) && (VehSpdValid_Cnt_T_lgc == D_TRUE_CNT_LGC) && (AbsFiltPinTrq_HwNm_T_f32 <= (AutoCntr_Cnt_T_str->FiltPinTrq_HwNm_f32)))=>False if(AutoCntr_Cnt_T_str->Filter1Enable_Cnt_lgc == D_TRUE_CNT_LGC)=>False" TS1.2"Longest Execution Path=> if((Abs_f32_m(MotorVelCRF_MtrRadpS_T_f32) <= AutoCntr_Cnt_T_str->MtrVel_MtrRadpS_f32) && (VehicleSpeed_Kph_T_f32 >= AutoCntr_Cnt_T_str->VehSpd_kph_f32) && (VehSpdValid_Cnt_T_lgc == D_TRUE_CNT_LGC) && (AbsFiltPinTrq_HwNm_T_f32 <= (AutoCntr_Cnt_T_str->FiltPinTrq_HwNm_f32)))=>True if((AutoCntr_Cnt_T_str->Filter1Enable_Cnt_lgc == D_FALSE_CNT_LGC) && (Timer1Elapsed_mS_T_u32 >= AutoCntr_Cnt_T_str->Timer1Thresh_mS_u16))=>True if (AutoCntr_Cnt_T_str->Filter1Initialized_Cnt_lgc == D_FALSE_CNT_LGC)=>True if(AutoCntr_Cnt_T_str->Filter1Enable_Cnt_lgc == D_TRUE_CNT_LGC)=>True if(Abs_f32_m(RelHwPos_HwDeg_T_f32 - AutoCntr_Cnt_T_str->RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32) <= AutoCntr_Cnt_T_str->CntrWindow_HwDeg_f32)=>True if((AutoCntr_Cnt_T_str->Filter2Enable_Cnt_lgc == D_FALSE_CNT_LGC) && (Timer2Elapsed_mS_T_u32 >= AutoCntr_Cnt_T_str->Timer2Thresh_mS_u16))=>True if (AutoCntr_Cnt_T_str->Filter2Initialized_Cnt_lgc == D_FALSE_CNT_LGC)=>True if(AutoCntr_Cnt_T_str->Filter2Enable_Cnt_lgc == D_TRUE_CNT_LGC)=>True"

Test Step 1.1 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	0		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-1350		
RelHwPos_HwDeg_T_f32	-2880.21997		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	0		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	0		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	0		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	0		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	0		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	0		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	0		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4243378688		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2269150976		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2880.21997		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000501999981		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2880.21997		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000501999981		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	0		
tgt_GetSystemTime_mS_u32_CurrentTime	0		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	0	0 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	0	0	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2269150976	2269150976	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2880.21997	-2880.21997 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2880.21997	-2880.21997 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

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Autocenter_f32



Test Step 1.2 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	5		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	0		
RelHwPos_HwDeg_T_f32	-888		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	216		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	120		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	34		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	85		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53759		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1316564736		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3345084416		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000508000026		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000508000026		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3437401088		
tgt_GetSystemTime_mS_u32_CurrentTime	954802432		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	0	0 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1316564736	1316564736	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	954802432	954802432	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

Actual Function	Count	Expected Function	Count	Result
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓

Test Case 2: Boundary Test



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

CPU Cycles:

TS2.1 676.00 Cycles
TS2.2 676.00 Cycles
TS2.3 659.00 Cycles
TS2.4 659.00 Cycles
TS2.5 730.00 Cycles
TS2.6 659.00 Cycles
TS2.7 659.00 Cycles
TS2.8 659.00 Cycles
TS2.9 659.00 Cycles
TS2.10 705.00 Cycles
TS2.11 659.00 Cycles
TS2.12 659.00 Cycles
TS2.13 659.00 Cycles
TS2.14 659.00 Cycles
TS2.15 683.00 Cycles
TS2.16 683.00 Cycles
TS2.17 659.00 Cycles
TS2.18 728.00 Cycles
TS2.19 654.00 Cycles
TS2.20 701.00 Cycles
TS2.21 654.00 Cycles
TS2.22 654.00 Cycles
TS2.23 654.00 Cycles
TS2.24 654.00 Cycles
TS2.25 654.00 Cycles
TS2.26 654.00 Cycles
TS2.27 654.00 Cycles
TS2.28 654.00 Cycles
TS2.29 654.00 Cycles
TS2.30 654.00 Cycles
TS2.31 693.00 Cycles
TS2.32 693.00 Cycles
TS2.33 654.00 Cycles
TS2.34 654.00 Cycles
TS2.35 654.00 Cycles
TS2.36 654.00 Cycles
TS2.37 654.00 Cycles
TS2.38 654.00 Cycles
TS2.39 654.00 Cycles
TS2.40 654.00 Cycles
TS2.41 654.00 Cycles
TS2.42 654.00 Cycles
TS2.43 654.00 Cycles
TS2.44 707.00 Cycles
TS2.45 659.00 Cycles
TS2.46 659.00 Cycles
TS2.47 659.00 Cycles
TS2.48 703.00 Cycles
TS2.49 654.00 Cycles
TS2.50 654.00 Cycles
TS2.51 693.00 Cycles
TS2.52 707.00 Cycles
TS2.53 703.00 Cycles
TS2.54 654.00 Cycles
TS2.55 654.00 Cycles
TS2.56 654.00 Cycles
TS2.57 654.00 Cycles
TS2.58 654.00 Cycles
TS2.59 654.00 Cycles
TS2.60 654.00 Cycles
TS2.61 654.00 Cycles
TS2.62 654.00 Cycles
TS2.63 654.00 Cycles
TS2.64 654.00 Cycles
TS2.65 654.00 Cycles
TS2.66 654.00 Cycles
TS2.67 693.00 Cycles
TS2.68 654.00 Cycles
TS2.69 654.00 Cycles
TS2.70 654.00 Cycles

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Autocenter_f32

Description Vector Description:

TS2.1All Min
TS2.2All Max
TS2.3FiltPinTrq_HwNm_T_f32 = Min
TS2.4FiltPinTrq_HwNm_T_f32 = Max
TS2.5FiltPinTrq_HwNm_T_f32 = Zero
TS2.6FiltPinTrq_HwNm_T_f32 = Pos
TS2.7FiltPinTrq_HwNm_T_f32 = Neg
TS2.8MotorVelCRF_MtrRadpS_T_f32 = Min
TS2.9MotorVelCRF_MtrRadpS_T_f32 = Max
TS2.10MotorVelCRF_MtrRadpS_T_f32 = Zero
TS2.11MotorVelCRF_MtrRadpS_T_f32 = Pos
TS2.12MotorVelCRF_MtrRadpS_T_f32 = Neg
TS2.13VehicleSpeed_Kph_T_f32 = Min
TS2.14VehicleSpeed_Kph_T_f32 = Max
TS2.15VehicleSpeed_Kph_T_f32 = Pos
TS2.16VehSpdValid_Cnt_T_lgc = Min
TS2.17VehSpdValid_Cnt_T_lgc = Max
TS2.18RelHwPos_HwDeg_T_f32 = Min
TS2.19RelHwPos_HwDeg_T_f32 = Max
TS2.20RelHwPos_HwDeg_T_f32 = Zero
TS2.21RelHwPos_HwDeg_T_f32 = Pos
TS2.22RelHwPos_HwDeg_T_f32 = Neg
TS2.23AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32==>Min
TS2.24AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32==>Max
TS2.25AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32==>Pos
TS2.26AutoCntr_Cnt_T_str.VehSpd_kph_f32==>Min
TS2.27AutoCntr_Cnt_T_str.VehSpd_kph_f32==>Max
TS2.28AutoCntr_Cnt_T_str.VehSpd_kph_f32==>Pos
TS2.29AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32==>Min
TS2.30AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32==>Max
TS2.31AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32==>Pos
TS2.32AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16==>Min
TS2.33AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16==>Max
TS2.34AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16==>Pos
TS2.35AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32==>Min
TS2.36AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32==>Max
TS2.37AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32==>Pos
TS2.38AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16==>Min
TS2.39AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16==>Max
TS2.40AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16==>Pos
TS2.41AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc==>Min
TS2.42AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc==>Max
TS2.43AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc==>Min
TS2.44AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc==>Max
TS2.45AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc==>Min
TS2.46AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc==>Max
TS2.47AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc==>Min
TS2.48AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc==>Max
TS2.49AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV==>Min
TS2.50AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV==>Max
TS2.51AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV==>Pos
TS2.52AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV==>Zero
TS2.53AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV==>Neg
TS2.54AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K==>Min
TS2.55AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K==>Max
TS2.56AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K==>Pos
TS2.57AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV==>Min
TS2.58AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV==>Max
TS2.59AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV==>Pos
TS2.60AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV==>Zero
TS2.61AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV==>Neg
TS2.62AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K==>Min
TS2.63AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K==>Max
TS2.64AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K==>Pos
TS2.65DtrmnElapsedTime_mS_u32 = Min
TS2.66DtrmnElapsedTime_mS_u32 = Max
TS2.67DtrmnElapsedTime_mS_u32 = Pos
TS2.68GetSystemTime_mS_u32 = Min
TS2.69GetSystemTime_mS_u32 = Max
TS2.70GetSystemTime_mS_u32 = Pos

Test Step 2.1 (Repeat Count = 1)	
Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	-18.7999992
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-1350
RelHwPos_HwDeg_T_f32	-3200
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	0
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	0
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	0
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	0
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	0
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	0
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	0

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Name	Input Value		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	0		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	0		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	0		
tgt_GetSystemTime_mS_u32_CurrentTime	0		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	0	0 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	0	0	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	0	0	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.2 (Repeat Count = 1)				
Name		Input Value		
AutoCntr_Cnt_T_str		tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)		tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32		18.7999992		
GetSystemTime_mS_u32(CurrentTime)		tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32		1350		
RelHwPos_HwDeg_T_f32		3200		
VehSpdValid_Cnt_T_lgc		1		
VehicleSpeed_Kph_T_f32		512		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32		700		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32		255		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32		20		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32		100		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16		60000		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16		60000		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		4294967295		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		4294967295		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		3200		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32		0.00125584798		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		3200		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32		0.00125584798		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		4294967295		
tgt_GetSystemTime_mS_u32_CurrentTime		4294967295		
Name	Actual Value	Expected Value	Result	
Autocenter_f32()	0	0 ± 0.1		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4294967295	4294967295		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4294967295	4294967295		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1		

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

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Test Step 2.3 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	-18.7999992
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-123
RelHwPos_HwDeg_T_f32	1885
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	166
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	75
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	156
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	4
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	10
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	12258
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	33198
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	10000
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2269150976
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000501999981
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	1720406272
tgt_GetSystemTime_mS_u32_CurrentTime	4243378688

Name	Actual Value	Expected Value	Result
Autocenter_f32()	0	0 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4243378688	4243378688	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2269150976	2269150976	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950	1950 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885	1885 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✓

T ✓

Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.4 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	18.7999992
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	189
RelHwPos_HwDeg_T_f32	-1887
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	176
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	98
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	166
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	16
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	25
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	26195
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	21335
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	20000
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3533260288
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000503999996
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1887
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51999995e-006
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0

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Name	Input Value		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2659241984		
tgt_GetSystemTime_mS_u32_CurrentTime	1050692864		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	0	0 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1050692864	1050692864	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3533260288	3533260288	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885	1885 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1887	-1887 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.5 (Repeat Count = 1) ✓

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	0		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	63		
RelHwPos_HwDeg_T_f32	-1753		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	186		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	66		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	84		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	86		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	43128		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	53970		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	437658624		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	812314880		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000506000011		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.53000007e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2942063360		
tgt_GetSystemTime_mS_u32_CurrentTime	3039943680		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	0	0 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3039943680	3039943680	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	812314880	812314880	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887	-1887 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1753	-1753 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.6 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime

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Name	Input Value		
FiltPinTrq_HwNm_T_f32	12.3299999		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-900		
RelHwPos_HwDeg_T_f32	1900		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	0		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	600		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	76		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	2		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	52		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	33198		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	38868		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	71426560		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4129141760		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000517999986		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.58999989e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	1759885568		
tgt_GetSystemTime_mS_u32_CurrentTime	309385728		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	3800	3800 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	309385728	309385728	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4129141760	4129141760	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900	1900 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900	-1900 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.7 (Repeat Count = 1)				
Name		Input Value		
AutoCntr_Cnt_T_str		tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)		tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32		-12.4499998		
GetSystemTime_mS_u32(CurrentTime)		tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32		800		
RelHwPos_HwDeg_T_f32		-1900		
VehSpdValid_Cnt_T_lgc		1		
VehicleSpeed_Kph_T_f32		512		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32		200		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32		86		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32		4		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32		41		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16		21335		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16		53970		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		2430672128		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		2836768512		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-1900		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32		0.000520000001		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		-1482		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32		2.60000002e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		1662097408		
tgt_GetSystemTime_mS_u32_CurrentTime		4164171008		
Name	Actual Value	Expected Value	Result	
Autocenter_f32()	-418	-418 ± 0.1		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4164171008	4164171008		

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Autocenter_f32

Name	Actual Value	Expected Value	Result
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2836768512	2836768512	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900	-1900 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482	-1482 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.8 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	4.23000002		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-1350		
RelHwPos_HwDeg_T_f32	-2400		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	196		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	34		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	64		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	9		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	56		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	49475		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	12258		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3941357312		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3345084416		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000508000026		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	935		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.53999997e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	1117112832		
tgt_GetSystemTime_mS_u32_CurrentTime	1316564736		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-3335	-3335 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1316564736	1316564736	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3345084416	3345084416	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753	-1753 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	935	935 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.9 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	16.5499992
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	1350
RelHwPos_HwDeg_T_f32	935
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	206
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	2

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Name	Input Value		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	52		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	7		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	54		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	43128		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	29076		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3304439296		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2704864000		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000509999983		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-888		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.55000009e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	1736795392		
tgt_GetSystemTime_mS_u32_CurrentTime	2075080192		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	1823	1823 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2075080192	2075080192	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2704864000	2704864000	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935	935 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.10 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	5.86999989		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	0		
RelHwPos_HwDeg_T_f32	-888		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	216		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	120		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	34		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	85		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53759		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2167769344		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4129141760		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000511999999		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.55999998e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3437401088		
tgt_GetSystemTime_mS_u32_CurrentTime	954802432		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-1313	-1313 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	954802432	954802432	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4129141760	4129141760	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425	425 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

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Autocenter_f32



T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.11 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	9.45499992		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	1100		
RelHwPos_HwDeg_T_f32	425		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	226		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	350		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	18		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	3		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	96		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	13352		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	40437		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3714197504		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	662694400		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000514000014		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.57000011e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3494315776		
tgt_GetSystemTime_mS_u32_CurrentTime	2728878080		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	2425	2425 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2728878080	2728878080	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	662694400	662694400	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425	425 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000	-2000 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.12 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	7.87699986
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-1200
RelHwPos_HwDeg_T_f32	-2000
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	236
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	400
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	88
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	1
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	32
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	21364
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	2291
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3323480832
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2303132928
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000515999971

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Name	Input Value
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.58e-006
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	463842816
tgt_GetSystemTime_mS_u32_CurrentTime	824746752

Name	Actual Value	Expected Value	Result
Autocenter_f32()	-3900	-3900 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	824746752	824746752	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2303132928	2303132928	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000	-2000 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900	1900 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.13 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	5.76599979
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-900
RelHwPos_HwDeg_T_f32	1900
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	0
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	600
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	76
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	2
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	52
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	33198
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	38868
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	71426560
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4129141760
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000517999986
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.58999989e-006
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	1759885568
tgt_GetSystemTime_mS_u32_CurrentTime	309385728

Name	Actual Value	Expected Value	Result
Autocenter_f32()	3800	3800 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	309385728	309385728	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4129141760	4129141760	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900	1900 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900	-1900 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

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Test Step 2.14 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	3		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	800		
RelHwPos_HwDeg_T_f32	-1900		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	512		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	200		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	86		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	4		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	41		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	21335		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	53970		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2430672128		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2836768512		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000520000001		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.60000002e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	1662097408		
tgt_GetSystemTime_mS_u32_CurrentTime	4164171008		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-418	-418 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4164171008	4164171008	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2836768512	2836768512	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900	-1900 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482	-1482 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.15 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_f32	1.11000001
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-418
RelHwPos_HwDeg_T_f32	-1482
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	124
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	457
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	96
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	6
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	63
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53970
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	12258
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2242866176
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2478427648
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000522000017
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.60999991e-006
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2127166208

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Name	Input Value		
tgt_GetSystemTime_mS_u32_CurrentTime	437658624		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-729	-729 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	437658624	437658624	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2478427648	2478427648	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991	1991 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753	-753 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.16 (Repeat Count = 1) ✓

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	2.98000002		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-425		
RelHwPos_HwDeg_T_f32	-753		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	156		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	498		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	106		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	14		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	88		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	12258		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	12258		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2269150976		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4180236544		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000523999974		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.62000003e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	4243378688		
tgt_GetSystemTime_mS_u32_CurrentTime	3941357312		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-1209	-1209 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3941357312	3941357312	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4180236544	4180236544	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482	-1482 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456	456 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.17 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	4.2329998
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	752

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Autocenter_f32

Name	Input Value		
RelHwPos_HwDeg_T_f32	456		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	166.977005		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	539		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	116		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	18		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	75		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	29076		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	29076		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3533260288		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3494315776		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000525999989		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.62999993e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	1050692864		
tgt_GetSystemTime_mS_u32_CurrentTime	3304439296		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	2956	2956 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3304439296	3304439296	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3494315776	3494315776	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753	-753 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500	-2500 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.18 (Repeat Count = 1)				✓
Name		Input Value		
AutoCntr_Cnt_T_str		tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)		tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32		6.98699999		
GetSystemTime_mS_u32(CurrentTime)		tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32		-158		
RelHwPos_HwDeg_T_f32		-3200		
VehSpdValid_Cnt_T_lgc		0		
VehicleSpeed_Kph_T_f32		84		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32		580		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32		126		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32		16		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32		97		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16		32821		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16		32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		812314880		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		463842816		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		456		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32		0.000528000004		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		2600		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32		2.64000005e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		3039943680		
tgt_GetSystemTime_mS_u32_CurrentTime		2167769344		
Name		Actual Value	Expected Value	Result
Autocenter_f32()		-5800	-5800 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		2167769344	2167769344	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		463842816	463842816	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		456	456 ± 0.0009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		2600	2600 ± 0.009	✓

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Autocenter_f32

Name	Actual Value	Expected Value	Result
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.19 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	14.6626997		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	753		
RelHwPos_HwDeg_T_f32	3200		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	64		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	621		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	136		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	18		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	86		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	40437		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	40437		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3345084416		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1759885568		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000530000019		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.64999994e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	1316564736		
tgt_GetSystemTime_mS_u32_CurrentTime	3714197504		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	5600	5600 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3714197504	3714197504	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1759885568	1759885568	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500	-2500 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400	-2400 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.20 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	18.2630005
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	159
RelHwPos_HwDeg_T_f32	0
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	52.3300018
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	662
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	146
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	8
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	42

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Autocenter_f32

Name	Input Value		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	2291		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	2291		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2704864000		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1662097408		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000531999976		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.66000006e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2075080192		
tgt_GetSystemTime_mS_u32_CurrentTime	3323480832		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-2800	-2800 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3323480832	3323480832	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1662097408	1662097408	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600	2600 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800	2800 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.21 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_f32	16.3782997		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	1100		
RelHwPos_HwDeg_T_f32	1440.88		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	34		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	124		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	156		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	4		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	96		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	38868		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	38868		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4129141760		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2127166208		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000533999992		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.66999996e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	954802432		
tgt_GetSystemTime_mS_u32_CurrentTime	71426560		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	2878.87988	2878.87988 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	71426560	71426560	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2127166208	2127166208	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400	-2400 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438	-1438 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✓

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T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.22 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	18		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-1235		
RelHwPos_HwDeg_T_f32	-1200.56006		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	18		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	138		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	166		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	16		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	32		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53970		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	53970		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	662694400		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4243378688		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000536000007		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.68000008e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2728878080		
tgt_GetSystemTime_mS_u32_CurrentTime	2430672128		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-1953.56006	-1953.56006 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2430672128	2430672128	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4243378688	4243378688	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800	2800 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753	753 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.23 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	8
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	154
RelHwPos_HwDeg_T_f32	1885
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	88
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	0
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	176
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	14
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	52
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	12258
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	12258
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2303132928
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1050692864
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000538000022

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Name	Input Value		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.68999997e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	824746752		
tgt_GetSystemTime_mS_u32_CurrentTime	2242866176		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	3873	3873 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2242866176	2242866176	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1050692864	1050692864	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438	-1438 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988	-1988 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.24 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	4		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-759		
RelHwPos_HwDeg_T_f32	-1887		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	76		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	700		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	186		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	12		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	41		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	20423		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	20423		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4129141760		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3039943680		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000539999979		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.7000001e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	309385728		
tgt_GetSystemTime_mS_u32_CurrentTime	2269150976		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-3875	-3875 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2269150976	2269150976	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3039943680	3039943680	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753	753 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988	1988 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

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Test Step 2.25 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	16		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-1253		
RelHwPos_HwDeg_T_f32	-1753		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	86.5500031		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	350		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	196		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	10		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	63		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	7034		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	7034		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2836768512		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1316564736		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000541999994		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.709999999e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	4164171008		
tgt_GetSystemTime_mS_u32_CurrentTime	3533260288		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-3744	-3744 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3533260288	3533260288	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1316564736	1316564736	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988	-1988 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991	1991 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.26 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_f32	14.1199999
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-835
RelHwPos_HwDeg_T_f32	935
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	96
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	88
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	0
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	2
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	88
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	29076
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	29076
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2478427648
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2075080192
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00054400001
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.72000011e-006
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	437658624

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Autocenter_f32

Name	Input Value		
tgt_GetSystemTime_mS_u32_CurrentTime	812314880		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	2935	2935 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	812314880	812314880	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2075080192	2075080192	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988	1988 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000	-2000 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.27 (Repeat Count = 1) ✓

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	12		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-456		
RelHwPos_HwDeg_T_f32	-888		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	106		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	94		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	255		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	10		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	75		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4180236544		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	954802432		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000546000025		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.73000001e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3941357312		
tgt_GetSystemTime_mS_u32_CurrentTime	3437401088		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-2788	-2788 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3437401088	3437401088	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	954802432	954802432	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991	1991 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900	1900 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.28 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	10
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	753

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Autocenter_f32

Name	Input Value		
RelHwPos_HwDeg_T_f32	425		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	116		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	126		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	124		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	12		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	97		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	40437		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	40437		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3494315776		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2728878080		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000547999982		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.7399999e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3304439296		
tgt_GetSystemTime_mS_u32_CurrentTime	3494315776		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	2325	2325 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3494315776	3494315776	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2728878080	2728878080	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000	-2000 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900	-1900 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.29 (Repeat Count = 1)				
Name		Input Value		
AutoCntr_Cnt_T_str		tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)		tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32		2		
GetSystemTime_mS_u32(CurrentTime)		tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32		1199		
RelHwPos_HwDeg_T_f32		-2000		
VehSpdValid_Cnt_T_lgc		1		
VehicleSpeed_Kph_T_f32		126		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32		124		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32		136		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32		0		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32		86		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16		2291		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16		2291		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		463842816		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		4164171008		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		1900		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32		0.000549999997		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		-1482		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32		2.75000002e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		2167769344		
tgt_GetSystemTime_mS_u32_CurrentTime		463842816		
Name	Actual Value	Expected Value	Result	
Autocenter_f32()	-518	-518 ± 0.1		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	463842816	463842816		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4164171008	4164171008		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900	1900 ± 0.009		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482	-1482 ± 0.009		

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Autocenter_f32

Name	Actual Value	Expected Value	Result
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.30 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	4		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-1299		
RelHwPos_HwDeg_T_f32	1900		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	136		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	63		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	146		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	20		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	42		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	38868		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	38868		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1759885568		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3941357312		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000552000012		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.75999992e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3714197504		
tgt_GetSystemTime_mS_u32_CurrentTime	1759885568		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	2653	2653 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1759885568	1759885568	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3941357312	3941357312	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900	-1900 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753	-753 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.31 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	6
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-147
RelHwPos_HwDeg_T_f32	-1900
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	146
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	456
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	156
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	15
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	75

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Autocenter_f32

Name	Input Value		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53970		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	53970		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1662097408		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3304439296		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000554000027		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.77000004e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3323480832		
tgt_GetSystemTime_mS_u32_CurrentTime	1662097408		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-2356	-2356 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1662097408	1662097408	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3304439296	3304439296	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482	-1482 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456	456 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.32 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	8		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	88		
RelHwPos_HwDeg_T_f32	-1482		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	156		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	566		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	166		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	8		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	97		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	0		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	13352		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2127166208		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2167769344		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000555999984		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.77999993e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	71426560		
tgt_GetSystemTime_mS_u32_CurrentTime	2127166208		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	1018	1018 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2127166208	2127166208	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2167769344	2167769344	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753	-753 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500	-2500 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

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Autocenter_f32



T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.33 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	10		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-75		
RelHwPos_HwDeg_T_f32	-753		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	166		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	63		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	176		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	10		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	86		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	60000		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	21364		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4243378688		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3714197504		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000558		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.79000005e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2430672128		
tgt_GetSystemTime_mS_u32_CurrentTime	4243378688		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-3353	-3353 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4243378688	4243378688	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3714197504	3714197504	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456	456 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600	2600 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.34 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	12
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-900
RelHwPos_HwDeg_T_f32	456
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	176
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	10
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	186
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	12
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	42
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	18774
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	33198
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1050692864
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2894938880
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000560000015

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Autocenter_f32

Name	Input Value
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.79999995e-006
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2242866176
tgt_GetSystemTime_mS_u32_CurrentTime	1050692864

Name	Actual Value	Expected Value	Result
Autocenter_f32()	2856	2856 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1050692864	1050692864	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2894938880	2894938880	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500	-2500 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400	-2400 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.35 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	14
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	800
RelHwPos_HwDeg_T_f32	-2500
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	186
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	56
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	196
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	14
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	0
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	49475
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	13352
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3039943680
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2059598336
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000561999972
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.81000007e-006
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2269150976
tgt_GetSystemTime_mS_u32_CurrentTime	3039943680

Name	Actual Value	Expected Value	Result
Autocenter_f32()	-5300	-5300 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3039943680	3039943680	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2059598336	2059598336	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600	2600 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800	2800 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

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Autocenter_f32



Test Step 2.36 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	16.9799995		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-418		
RelHwPos_HwDeg_T_f32	2600		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	196		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	86		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	206		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	16		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	100		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	43128		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	21364		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1316564736		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	800969984		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000563999987		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.81999996e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3533260288		
tgt_GetSystemTime_mS_u32_CurrentTime	1316564736		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	4038	4038 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1316564736	1316564736	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	800969984	800969984	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400	-2400 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438	-1438 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.37 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_f32	18
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-425
RelHwPos_HwDeg_T_f32	-2400
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	206
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	75
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	216
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	18
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	65
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53759
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	33198
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2075080192
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	569984000
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000566000002
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.83000008e-006
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	812314880

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Autocenter_f32

Name	Input Value		
tgt_GetSystemTime_mS_u32_CurrentTime	2075080192		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-3153	-3153 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2075080192	2075080192	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	569984000	569984000	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800	2800 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753	753 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.38 (Repeat Count = 1) ✓

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	1		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	752		
RelHwPos_HwDeg_T_f32	2800		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	216		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	98		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	226		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	1		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	10		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	13352		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	0		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	954802432		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3941357312		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000568000018		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.83999998e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3345084416		
tgt_GetSystemTime_mS_u32_CurrentTime	954802432		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	4788	4788 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	954802432	954802432	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3941357312	3941357312	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438	-1438 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988	-1988 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.39 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	2
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-158

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Autocenter_f32

Name	Input Value		
RelHwPos_HwDeg_T_f32	-1438		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	226		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	66		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	236		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	2		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	25		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	21364		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	60000		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2728878080		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1720406272		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000569999975		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.8500001e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2704864000		
tgt_GetSystemTime_mS_u32_CurrentTime	2728878080		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-4038	-4038 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2728878080	2728878080	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1720406272	1720406272	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753	753 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600	2600 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.40 (Repeat Count = 1)				
Name		Input Value		
AutoCntr_Cnt_T_str		tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)		tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32		4		
GetSystemTime_mS_u32(CurrentTime)		tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32		753		
RelHwPos_HwDeg_T_f32		753		
VehSpdValid_Cnt_T_lgc		0		
VehicleSpeed_Kph_T_f32		236		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32		34		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32		246		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32		4		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32		86		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16		33198		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16		18774		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		4164171008		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		2659241984		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-1988		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32		0.00057199999		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		-2400		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32		2.86e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		4129141760		
tgt_GetSystemTime_mS_u32_CurrentTime		4164171008		
Name		Actual Value	Expected Value	Result
Autocenter_f32()		3153	3153 ± 0.1	
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		4164171008	4164171008	
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		2659241984	2659241984	
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-1988	-1988 ± 0.009	
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		-2400	-2400 ± 0.009	

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Name	Actual Value	Expected Value	Result
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.41 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	6.65999985		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	159		
RelHwPos_HwDeg_T_f32	-1988		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	246		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	2		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	84		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	6		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	56		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	21335		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	12258		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3941357312		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2942063360		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000574000005		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.869999989e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	662694400		
tgt_GetSystemTime_mS_u32_CurrentTime	824746752		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-4788	-4788 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	824746752	824746752	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2942063360	2942063360	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885	1885 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800	2800 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.42 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	14
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	1100
RelHwPos_HwDeg_T_f32	1988
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	84
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	120
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	64
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	14
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	54

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Name	Input Value		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	12258		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	26195		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3304439296		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1117112832		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00057600002		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.88000001e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2303132928		
tgt_GetSystemTime_mS_u32_CurrentTime	309385728		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	3426	3426 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	309385728	309385728	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1117112832	1117112832	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988	1988 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438	-1438 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.43 (Repeat Count = 1) ✓

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	18		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-1235		
RelHwPos_HwDeg_T_f32	1991		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	64		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	350		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	52		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	18		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	85		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	29076		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	43128		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2167769344		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1736795392		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000577999977		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.889999991e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	4129141760		
tgt_GetSystemTime_mS_u32_CurrentTime	4164171008		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	1238	1238 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4164171008	4164171008	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1736795392	1736795392	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991	1991 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753	753 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

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Autocenter_f32



T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.44 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	18		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	154		
RelHwPos_HwDeg_T_f32	-2000		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	52		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	400		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	34		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	18		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	96		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	49475		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3714197504		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3437401088		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000579999993		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.90000003e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2836768512		
tgt_GetSystemTime_mS_u32_CurrentTime	437658624		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-12	-12 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	437658624	437658624	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3437401088	3437401088	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400	-2400 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988	-1988 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.45 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	16
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-759
RelHwPos_HwDeg_T_f32	1900
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	34
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	600
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	216
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	16
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	86
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	40437
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	43128
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2894938880
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3494315776
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000582000008

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Name	Input Value		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.90999992e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2478427648		
tgt_GetSystemTime_mS_u32_CurrentTime	3941357312		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	3338	3338 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3941357312	3941357312	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3494315776	3494315776	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800	2800 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438	-1438 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.46 (Repeat Count = 1)				✓
Name		Input Value		
AutoCntr_Cnt_T_str		tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)		tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32		18		
GetSystemTime_mS_u32(CurrentTime)		tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32		-1253		
RelHwPos_HwDeg_T_f32		-1900		
VehSpdValid_Cnt_T_lgc		0		
VehicleSpeed_Kph_T_f32		216		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32		200		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32		226		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32		18		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32		32		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16		2291		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16		53759		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		2059598336		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		463842816		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-1438		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32		0.000584000023		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32		2.92000004e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		4180236544		
tgt_GetSystemTime_mS_u32_CurrentTime		3304439296		
Name		Actual Value	Expected Value	Result
Autocenter_f32()		-2653	-2653 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		3304439296	3304439296	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		463842816	463842816	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-1438	-1438 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		753	753 ± 0.0009	✓
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

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Autocenter_f32



Test Step 2.47 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	8		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-835		
RelHwPos_HwDeg_T_f32	-1482		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	226		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	457		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	236		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	8		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	52		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	38868		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	13352		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	800969984		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1759885568		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00058599998		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.92999994e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3368466432		
tgt_GetSystemTime_mS_u32_CurrentTime	2167769344		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	506	506 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2167769344	2167769344	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1759885568	1759885568	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950	1950 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988	-1988 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.48 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_f32	4
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-456
RelHwPos_HwDeg_T_f32	-753
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	236
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	498
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	246
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	4
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	41
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53970
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	21364
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	569984000
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1662097408
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000587999995
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.94000006e-006
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	170564352

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Autocenter_f32

Name	Input Value		
tgt_GetSystemTime_mS_u32_CurrentTime	3714197504		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-3353	-3353 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3714197504	3714197504	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1662097408	1662097408	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885	1885 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600	2600 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.49 (Repeat Count = 1) ✓

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	16		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	1199		
RelHwPos_HwDeg_T_f32	456		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	246		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	539		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	123		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	16		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	63		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	20423		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	33198		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3941357312		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2127166208		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000590000011		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.94999995e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	625668608		
tgt_GetSystemTime_mS_u32_CurrentTime	2894938880		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	3656	3656 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2894938880	2894938880	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2127166208	2127166208	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900	1900 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.50 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	14
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-1299

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Autocenter_f32

Name	Input Value		
RelHwPos_HwDeg_T_f32	-2500		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	123		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	580		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	124		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	14		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	88		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	7034		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	21335		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1720406272		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4243378688		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000592000026		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.96000007e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	1711664384		
tgt_GetSystemTime_mS_u32_CurrentTime	2059598336		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-5700	-5700 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2059598336	2059598336	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4243378688	4243378688	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887	-1887 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.51 (Repeat Count = 1)				✓
Name		Input Value		
AutoCntr_Cnt_T_str		tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)		tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32		12		
GetSystemTime_mS_u32(CurrentTime)		tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32		-147		
RelHwPos_HwDeg_T_f32		2600		
VehSpdValid_Cnt_T_lgc		1		
VehicleSpeed_Kph_T_f32		124.764999		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32		621		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32		125		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32		12		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32		75		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16		25532		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16		53970		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		2659241984		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		1050692864		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-1753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32		0.000593999983		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		0		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32		2.96999997e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		1568734208		
tgt_GetSystemTime_mS_u32_CurrentTime		800969984		
Name		Actual Value	Expected Value	Result
Autocenter_f32()		2600	2600 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		800969984	800969984	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		1050692864	1050692864	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-1753	-1753 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		0	0 ± 0.000009	✓

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Autocenter_f32

Name	Actual Value	Expected Value	Result
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.52 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	10		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	88		
RelHwPos_HwDeg_T_f32	-2400		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	125		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	662		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	32		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	10		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	97		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	49475		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	12258		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2942063360		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3039943680		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000595999998		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1440.88		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.98000009e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	4195077888		
tgt_GetSystemTime_mS_u32_CurrentTime	569984000		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-3840.87988	-3840.87988 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	569984000	569984000	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3039943680	3039943680	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935	935 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1440.88	1440.88 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.53 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	2
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-75
RelHwPos_HwDeg_T_f32	2800
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	32.3300018
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	124
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	124
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	2
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	86

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Name	Input Value			
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	43128			
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	29076			
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1117112832			
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1316564736			
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888			
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000598000013			
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1200.56006			
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.98999998e-006			
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0			
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0			
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1			
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0			
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2339853824			
tgt_GetSystemTime_mS_u32_CurrentTime	3351443200			
Name	Actual Value	Expected Value	Result	
Autocenter_f32()	4000.56006	4000.56006 ± 0.1	✓	
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3351443200	3351443200	✓	
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1316564736	1316564736	✓	
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✓	
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1200.56006	-1200.56006 ± 0.009	✓	
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓	
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✓	
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✓	
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✓	

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.54 (Repeat Count = 1)				
Name	Input Value			
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str			
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime			
FiltPinTrq_HwNm_f32	4			
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime			
MotorVelCRF_MtrRadpS_T_f32	-835			
RelHwPos_HwDeg_T_f32	-1438			
VehSpdValid_Cnt_T_lgc	0			
VehicleSpeed_Kph_T_f32	124			
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	138			
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	84			
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	4			
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	42			
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53759			
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821			
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1736795392			
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2075080192			
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425			
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000600000028			
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900			
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006			
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1			
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1			
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0			
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1			
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3524313344			
tgt_GetSystemTime_mS_u32_CurrentTime	1358028288			
Name	Actual Value	Expected Value	Result	
Autocenter_f32()	-3338	-3338 ± 0.1	✓	
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1358028288	1358028288	✓	
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2075080192	2075080192	✓	
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425	425 ± 0.0009	✓	
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900	1900 ± 0.009	✓	
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓	
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✓	
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✓	
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✓	

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Autocenter_f32



T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.55 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	6		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	159		
RelHwPos_HwDeg_T_f32	753		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	84		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	86		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	64		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	6		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	12		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	13352		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	40437		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3437401088		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	954802432		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000601999986		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125584798		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2108719104		
tgt_GetSystemTime_mS_u32_CurrentTime	1975593216		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	2653	2653 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1975593216	1975593216	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	954802432	954802432	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423	-423 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900	-1900 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.56 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	8
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	1100
RelHwPos_HwDeg_T_f32	-1988
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	64
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	539
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	52
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	8
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	53
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	21364
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	2291
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3494315776
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2728878080
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	796
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000604000001

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Name	Input Value		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.98999998e-006		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2894938880		
tgt_GetSystemTime_mS_u32_CurrentTime	910116864		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-506	-506 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	910116864	910116864	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2728878080	2728878080	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	796	796 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482	-1482 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.57 (Repeat Count = 1) ✓

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	10		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-1235		
RelHwPos_HwDeg_T_f32	-2400		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	52		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	44		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	34		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	10		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	86		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	33198		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	38868		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	463842816		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	824746752		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000606000016		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000652000017		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2059598336		
tgt_GetSystemTime_mS_u32_CurrentTime	402713344		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-1647	-1647 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	402713344	402713344	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	824746752	824746752	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753	-753 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

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Autocenter_f32



Test Step 2.58 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	12.9799995		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	154		
RelHwPos_HwDeg_T_f32	1988		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	34		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	96		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	18		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	12		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	96		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	21335		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	53970		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1759885568		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	309385728		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000607999973		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000653999974		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	800969984		
tgt_GetSystemTime_mS_u32_CurrentTime	4178051584		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	1532	1532 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4178051584	4178051584	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	309385728	309385728	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456	456 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.59 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_f32	14
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-759
RelHwPos_HwDeg_T_f32	1991
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	18
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	100
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	88
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	14
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	45
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	29076
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	12258
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1662097408
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4164171008
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	0
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000609999988
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000655999989
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	569984000

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Autocenter_f32

Name	Input Value		
tgt_GetSystemTime_mS_u32_CurrentTime	4077829376		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	4491	4491 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4077829376	4077829376	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4164171008	4164171008	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	0	0 ± 0.000009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500	-2500 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.60 (Repeat Count = 1) ✓

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	16		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-1253		
RelHwPos_HwDeg_T_f32	-2400		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	88		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	124		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	76		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	16		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	78		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	20423		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2127166208		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2894938880		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1440.88		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000612000003		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000658000004		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3351443200		
tgt_GetSystemTime_mS_u32_CurrentTime	2644937728		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-5000	-5000 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2644937728	2644937728	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2894938880	2894938880	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1440.88	1440.88 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600	2600 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.61 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	3
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-835

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Autocenter_f32

Name	Input Value		
RelHwPos_HwDeg_T_f32	2800		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	76		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	78		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	86		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	3		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	96		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	40437		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	7034		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4243378688		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2059598336		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1200.56006		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000614000019		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00066000002		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	1358028288		
tgt_GetSystemTime_mS_u32_CurrentTime	2212175616		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	5200	5200 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2212175616	2212175616	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2059598336	2059598336	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1200.56006	-1200.56006 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400	-2400 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.62 (Repeat Count = 1)				✓
Name		Input Value		
AutoCntr_Cnt_T_str		tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)		tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32		5		
GetSystemTime_mS_u32(CurrentTime)		tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32		154		
RelHwPos_HwDeg_T_f32		-1438		
VehSpdValid_Cnt_T_lgc		0		
VehicleSpeed_Kph_T_f32		86.5999985		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32		88		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32		96		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32		5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32		32		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16		2291		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16		29076		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		1050692864		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		800969984		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-1887		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32		2.51000006e-006		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		2800		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32		0.000661999977		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		1975593216		
tgt_GetSystemTime_mS_u32_CurrentTime		2059598336		
Name		Actual Value	Expected Value	Result
Autocenter_f32()		-4238	-4238 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		2059598336	2059598336	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		800969984	800969984	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-1887	-1887 ± 0.009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		2800	2800 ± 0.009	✓

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Autocenter_f32

Name	Actual Value	Expected Value	Result
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.63 (Repeat Count = 1) ✓

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	9		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-456		
RelHwPos_HwDeg_T_f32	1950		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	96		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	94		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	106		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	9		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	52		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	38868		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3039943680		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	569984000		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125584798		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000663999992		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	910116864		
tgt_GetSystemTime_mS_u32_CurrentTime	800969984		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	3388	3388 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	800969984	800969984	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	569984000	569984000	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753	-1753 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438	-1438 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.64 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	7
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-900
RelHwPos_HwDeg_T_f32	1885
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	106
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	44
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	116
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	7
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	10

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Autocenter_f32

Name	Input Value		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53970		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	40437		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1316564736		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3351443200		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.98999998e-006		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000666000007		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	402713344		
tgt_GetSystemTime_mS_u32_CurrentTime	2659241984		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	1132	1132 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2659241984	2659241984	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3351443200	3351443200	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935	935 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753	753 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.65 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	5		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	800		
RelHwPos_HwDeg_T_f32	142		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	116		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	126		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	126		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	25		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	20423		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	2291		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2075080192		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1358028288		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000750000007		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000668000022		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	0		
tgt_GetSystemTime_mS_u32_CurrentTime	2942063360		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	2130	2130 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2942063360	2942063360	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1358028288	1358028288	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988	-1988 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

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Autocenter_f32



T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.66 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	3		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-418		
RelHwPos_HwDeg_T_f32	-1900		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	126		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	124		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	136		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	3		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	86		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	7034		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	38868		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	954802432		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1975593216		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000752000022		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000669999979		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	4294967295		
tgt_GetSystemTime_mS_u32_CurrentTime	4077829376		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	500	500 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4077829376	4077829376	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	1975593216	1975593216	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425	425 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400	-2400 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.67 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	1
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	-425
RelHwPos_HwDeg_T_f32	-1482
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	136
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	456
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	146
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	1
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	56
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	25532
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	53970
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2728878080
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	910116864
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000753999979

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Autocenter_f32

Name	Input Value		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000671999995		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	255468		
tgt_GetSystemTime_mS_u32_CurrentTime	3714197504		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-3470	-3470 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3714197504	3714197504	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	910116864	910116864	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423	-423 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988	1988 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.68 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	2		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	752		
RelHwPos_HwDeg_T_f32	-2400		
VehSpdValid_Cnt_T_lgc	0		
VehicleSpeed_Kph_T_f32	146		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	566		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	156		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	2		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	54		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	49475		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	49475		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	824746752		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	402713344		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	796		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000755999994		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00067400001		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2167769344		
tgt_GetSystemTime_mS_u32_CurrentTime	0		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-4391	-4391 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	0	0	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	402713344	402713344	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	796	796 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991	1991 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

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Autocenter_f32



Test Step 2.69 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	5.5		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	-158		
RelHwPos_HwDeg_T_f32	1988		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	156.600006		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	75		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	166		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	85		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	43128		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	43128		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	309385728		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4178051584		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1456		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000758000009		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000676000025		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3714197504		
tgt_GetSystemTime_mS_u32_CurrentTime	4294967295		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	4388	4388 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4294967295	4294967295	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4178051584	4178051584	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1456	1456 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400	-2400 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.70 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_f32	4
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	1100
RelHwPos_HwDeg_T_f32	1991
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	166
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	10
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	176
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	4
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	96
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	21364
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	21364
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4164171008
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4077829376
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-758
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000760000024
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1887
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000677999982
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3323480832

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Autocenter_f32

Name	Input Value		
tgt_GetSystemTime_mS_u32_CurrentTime	255468		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	3878	3878 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	255468	255468	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4077829376	4077829376	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-758	-758 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1887	-1887 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Case 3: Path Test

Specification	Description
<p>Performance Metrics: (With "None" Instrumentation and "WithPS" Environment)</p> <p>CPU Cycles:</p> <p>TS3.1 1885.00 Cycles TS3.2 1257.00 Cycles TS3.3 1767.00 Cycles TS3.4 1844.00 Cycles TS3.5 1176.00 Cycles TS3.6 1791.00 Cycles TS3.7 747.00 Cycles TS3.8 1784.00 Cycles TS3.9 676.00 Cycles TS3.10 676.00 Cycles</p>	<p>Vector Description:</p> <p>TS3.1"((Abs_f32_m(MotorVelCRF_MtrRadpS_T_f32) <= AutoCntr_Cnt_T_str->MtrVel_MtrRadpS_f32) && (VehicleSpeed_Kph_T_f32 >= AutoCntr_Cnt_T_str->VehSpd_kph_f32) && (VehSpdValid_Cnt_T_lgc == D_TRUE_CNT_LGC) && (AbsFiltPinTrq_HwNm_T_f32 <= (AutoCntr_Cnt_T_str->FiltPinTrq_HwNm_f32)) =True (AutoCntr_Cnt_T_str->Filter1Enable_Cnt_lgc == D_FALSE_CNT_LGC) && (Timer1Elapsed_mS_T_u32 >= AutoCntr_Cnt_T_str->Timer1Thresh_mS_u16) =True (AutoCntr_Cnt_T_str->Filter1Initialized_Cnt_lgc == D_FALSE_CNT_LGC)=False (AutoCntr_Cnt_T_str->Filter1Enable_Cnt_lgc == D_TRUE_CNT_LGC)=True (Abs_f32_m(RelHwPos_HwDeg_T_f32 - AutoCntr_Cnt_T_str->RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32) <= AutoCntr_Cnt_T_str->CntrWindow_HwDeg_f32)=True (AutoCntr_Cnt_T_str->Filter2Enable_Cnt_lgc == D_FALSE_CNT_LGC) && (Timer2Elapsed_mS_T_u32 >= AutoCntr_Cnt_T_str->Timer2Thresh_mS_u16) =True (AutoCntr_Cnt_T_str->Filter2Initialized_Cnt_lgc == D_FALSE_CNT_LGC)=False (AutoCntr_Cnt_T_str->Filter2Enable_Cnt_lgc == D_TRUE_CNT_LGC)=True" TS3.2"((AutoCntr_Cnt_T_str->Filter1Enable_Cnt_lgc == D_FALSE_CNT_LGC) && (Timer1Elapsed_mS_T_u32 >= AutoCntr_Cnt_T_str->Timer1Thresh_mS_u16) =False" TS3.3(AutoCntr_Cnt_T_str->Filter1Initialized_Cnt_lgc == D_FALSE_CNT_LGC)=True TS3.4"(Abs_f32_m(RelHwPos_HwDeg_T_f32 - AutoCntr_Cnt_T_str->RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32) <= AutoCntr_Cnt_T_str->CntrWindow_HwDeg_f32)=False (AutoCntr_Cnt_T_str->Filter2Enable_Cnt_lgc == D_TRUE_CNT_LGC)=False" TS3.5"((AutoCntr_Cnt_T_str->Filter2Enable_Cnt_lgc == D_FALSE_CNT_LGC) && (Timer2Elapsed_mS_T_u32 >= AutoCntr_Cnt_T_str->Timer2Thresh_mS_u16) =False" TS3.6(AutoCntr_Cnt_T_str->Filter2Initialized_Cnt_lgc == D_FALSE_CNT_LGC)=True TS3.7"((Abs_f32_m(MotorVelCRF_MtrRadpS_T_f32) <= AutoCntr_Cnt_T_str->MtrVel_MtrRadpS_f32) =True&& (VehicleSpeed_Kph_T_f32 >= AutoCntr_Cnt_T_str->VehSpd_kph_f32) =True&& (VehSpdValid_Cnt_T_lgc == D_TRUE_CNT_LGC) =True&& (AbsFiltPinTrq_HwNm_T_f32 <= (AutoCntr_Cnt_T_str->FiltPinTrq_HwNm_f32))=False)" TS3.8"((AutoCntr_Cnt_T_str->Filter2Enable_Cnt_lgc == D_FALSE_CNT_LGC)=True && (Timer2Elapsed_mS_T_u32 >= AutoCntr_Cnt_T_str->Timer2Thresh_mS_u16) =False)" TS3.9"((AutoCntr_Cnt_T_str->Filter1Enable_Cnt_lgc == D_FALSE_CNT_LGC) =True&& (Timer1Elapsed_mS_T_u32 >= AutoCntr_Cnt_T_str->Timer1Thresh_mS_u16) =False)" TS3.10"((Abs_f32_m(MotorVelCRF_MtrRadpS_T_f32) <= AutoCntr_Cnt_T_str->MtrVel_MtrRadpS_f32) =True&& (VehicleSpeed_Kph_T_f32 >= AutoCntr_Cnt_T_str->VehSpd_kph_f32) =True&& (VehSpdValid_Cnt_T_lgc == D_TRUE_CNT_LGC)=False && (AbsFiltPinTrq_HwNm_T_f32 <= (AutoCntr_Cnt_T_str->FiltPinTrq_HwNm_f32)))"</p>

Test Step 3.1 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	5
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	0
RelHwPos_HwDeg_T_f32	-888
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	216

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Name	Input Value		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	120		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	34		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	85		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53759		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1050692864		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3533260288		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000503999996		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000503999996		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3437401088		
tgt_GetSystemTime_mS_u32_CurrentTime	954802432		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-1312.33826	-1312.33826 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1050692864	1050692864	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	954802432	954802432	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	424.338257	424.338257 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓

Test Step 3.2 (Repeat Count = 1)				✔
Name		Input Value		
AutoCntr_Cnt_T_str		tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)		tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32		5		
GetSystemTime_mS_u32(CurrentTime)		tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32		0		
RelHwPos_HwDeg_T_f32		-888		
VehSpdValid_Cnt_T_lgc		1		
VehicleSpeed_Kph_T_f32		216		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32		120		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32		34		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32		5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32		85		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16		53759		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16		32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		3039943680		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		812314880		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-888		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32		0.000506000011		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		425		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32		0.000506000011		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		3437401088		
tgt_GetSystemTime_mS_u32_CurrentTime		954802432		
Name		Actual Value	Expected Value	Result
Autocenter_f32()		-1312.33569	-1312.33557 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		3039943680	3039943680	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		812314880	812314880	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-888	-888 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		424.335632	424.335632 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		1	1	✔

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Name	Actual Value	Expected Value	Result
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
DtrmnElapsedTime_mS_u32	2	DtrmnElapsedTime_mS_u32	2	✓

Test Step 3.3 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	5		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	0		
RelHwPos_HwDeg_T_f32	-888		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	216		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	120		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	34		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	85		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53759		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1316564736		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3345084416		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000508000026		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000508000026		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3437401088		
tgt_GetSystemTime_mS_u32_CurrentTime	954802432		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-1312.33301	-1312.33301 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1316564736	1316564736	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	954802432	954802432	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	424.333008	424.333008 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓

Test Step 3.4 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	5
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	0
RelHwPos_HwDeg_T_f32	-888
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	216
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	120
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	34
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5

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Name	Input Value		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	85		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53759		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2075080192		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2704864000		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	888		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000509999983		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000509999983		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3437401088		
tgt_GetSystemTime_mS_u32_CurrentTime	954802432		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-1313	-1313 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2075080192	2075080192	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	954802432	954802432	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	887.094238	887.094238 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425	425 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓	
GetSystemTime_mS_u32	2	GetSystemTime_mS_u32	2	✓	

Test Step 3.5 (Repeat Count = 1)				✓
Name		Input Value		
AutoCntr_Cnt_T_str		tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)		tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32		5		
GetSystemTime_mS_u32(CurrentTime)		tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32		0		
RelHwPos_HwDeg_T_f32		-888		
VehSpdValid_Cnt_T_lgc		1		
VehicleSpeed_Kph_T_f32		216		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32		120		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32		34		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32		5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32		53759		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16		85		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16		32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		2167769344		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		954802432		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-888		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32		0.000511999999		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		425		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32		0.000511999999		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		3437401088		
tgt_GetSystemTime_mS_u32_CurrentTime		954802432		
Name		Actual Value	Expected Value	Result
Autocenter_f32()		-1312.32776	-1312.32776 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32		2167769344	2167769344	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32		954802432	954802432	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32		-888	-888 ± 0.0009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32		424.327759	424.327759 ± 0.0009	✓
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc		1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc		1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc		1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc		1	1	✓

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T				
Actual Function	Count	Expected Function	Count	Result
DtrmnElapsedTime_mS_u32	2	DtrmnElapsedTime_mS_u32	2	✓

Test Step 3.6 (Repeat Count = 1)

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	5		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	0		
RelHwPos_HwDeg_T_f32	-888		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	216		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	120		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	34		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	53759		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	85		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2728878080		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	662694400		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000514000014		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000514000014		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3437401088		
tgt_GetSystemTime_mS_u32_CurrentTime	954802432		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	0	0 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	2728878080	2728878080	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	954802432	954802432	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓

Test Step 3.7 (Repeat Count = 1)

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	15
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	63
RelHwPos_HwDeg_T_f32	-1753
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	186
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	66
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	84
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	43128
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	86
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	53970
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	824746752
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2303132928

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Autocenter_f32

Name	Input Value		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000515999971		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1753		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000515999971		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	2942063360		
tgt_GetSystemTime_mS_u32_CurrentTime	3039943680		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	0	0 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	3039943680	3039943680	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2303132928	2303132928	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887	-1887 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1753	-1753 ± 0.009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 3.8 (Repeat Count = 1) ✓

Name	Input Value		
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str		
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime		
FiltPinTrq_HwNm_T_f32	5		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
MotorVelCRF_MtrRadpS_T_f32	0		
RelHwPos_HwDeg_T_f32	-888		
VehSpdValid_Cnt_T_lgc	1		
VehicleSpeed_Kph_T_f32	216		
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	120		
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	34		
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5		
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	53759		
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	85		
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821		
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	309385728		
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	4129141760		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000517999986		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425		
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000517999986		
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0		
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1		
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1		
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	500		
tgt_GetSystemTime_mS_u32_CurrentTime	954802432		
Name	Actual Value	Expected Value	Result
Autocenter_f32()	-1313	-1313 ± 0.1	✔
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	309385728	309385728	✔
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	954802432	954802432	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425	425 ± 0.0009	✔
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✔
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✔
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
DtrmnElapsdTime_mS_u32	1	DtrmnElapsdTime_mS_u32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
DtrmnElapsdTime_mS_u32	1	DtrmnElapsdTime_mS_u32	1	✓	

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Autocenter_f32

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Test Step 3.9 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	5
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	0
RelHwPos_HwDeg_T_f32	-888
VehSpdValid_Cnt_T_lgc	1
VehicleSpeed_Kph_T_f32	216
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	120
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	34
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	85
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	40000
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4164171008
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2836768512
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000520000001
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000520000001
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	30000
tgt_GetSystemTime_mS_u32_CurrentTime	954802432

Name	Actual Value	Expected Value	Result
Autocenter_f32()	-1313	-1313 ± 0.1	✓
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	4164171008	4164171008	✓
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	2836768512	2836768512	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✓
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425	425 ± 0.0009	✓
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✓
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	1	1	✓
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	1	1	✓

T ✓

Actual Function	Count	Expected Function	Count	Result
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓

Test Step 3.10 (Repeat Count = 1) ✓

Name	Input Value
AutoCntr_Cnt_T_str	tgt_AutoCntr_Cnt_T_str
DtrmnElapsedTime_mS_u32(ElapsedTime)	tgt_DtrmnElapsedTime_mS_u32_ElapsedTime
FiltPinTrq_HwNm_T_f32	5
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
MotorVelCRF_MtrRadpS_T_f32	0
RelHwPos_HwDeg_T_f32	-888
VehSpdValid_Cnt_T_lgc	0
VehicleSpeed_Kph_T_f32	216
tgt_AutoCntr_Cnt_T_str.MtrVel_MtrRadpS_f32	120
tgt_AutoCntr_Cnt_T_str.VehSpd_kph_f32	34
tgt_AutoCntr_Cnt_T_str.FiltPinTrq_HwNm_f32	5
tgt_AutoCntr_Cnt_T_str.CntrWindow_HwDeg_f32	85
tgt_AutoCntr_Cnt_T_str.Timer1Thresh_mS_u16	53759
tgt_AutoCntr_Cnt_T_str.Timer2Thresh_mS_u16	32821
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	1316564736
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3345084416
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000508000026
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000508000026
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0

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Autocenter_f32

Name	Input Value			
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0			
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0			
tgt_DtrmnElapsedTime_mS_u32_ElapsedTime	3437401088			
tgt_GetSystemTime_mS_u32_CurrentTime	954802432			
Name	Actual Value	Expected Value	Result	
Autocenter_f32()	-1313	-1313 ± 0.1	✓	
tgt_AutoCntr_Cnt_T_str.Timer1_mS_u32	954802432	954802432	✓	
tgt_AutoCntr_Cnt_T_str.Timer2_mS_u32	3345084416	3345084416	✓	
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888	-888 ± 0.0009	✓	
tgt_AutoCntr_Cnt_T_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425	425 ± 0.0009	✓	
tgt_AutoCntr_Cnt_T_str.Filter1Enable_Cnt_lgc	0	0	✓	
tgt_AutoCntr_Cnt_T_str.Filter2Enable_Cnt_lgc	0	0	✓	
tgt_AutoCntr_Cnt_T_str.Filter1Initialized_Cnt_lgc	0	0	✓	
tgt_AutoCntr_Cnt_T_str.Filter2Initialized_Cnt_lgc	0	0	✓	

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

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VehDyn_Per1

Project	VehDyn
Module	VehDyn
Test Object	VehDyn_Per1

Instrumentation: Test Object Only

Statement (C0) 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\VehDyn
Configuration File	D:\Synergy_Work_Area\VehDyn\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)\VehDyn\src\Ap_VehDyn.c
Compiler Options	-D_DATA_ACCESS= -Dconst= -Dstatic= -Dexpf=exp -I\$(PROJECTROOT)\VehDyn\utp\contract\Ap_VehDyn -I\$(PROJECTROOT)\VehDyn\utp\contract -I\$(PROJECTROOT)\NtrLib\include -I\$(PROJECTROOT)\StdDef\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include

Comments/Description/Specification

Name	Text
Module 'VehDyn'	<p>*****UNIT TEST INFORMATION*****</p> <p>Name of Tester:Sunita Kore Code File(s) Under Test:Ap_VehDyn.c Code File(s) Version:3 Module Design Document:VehDyn_MDD.docx Module Design Document Version:4 Data Dictionary Version:5 Unit Test Plan Version:2 Optimization Level:Level 2 Compiler (CodeGen) Version:TMS470_4.9.5 Model Type:Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.30 Total FLASH Used (Bytes):2054 Total RAM Used (Bytes):188 Total CALS Used (Bytes):107 Special Test Requirements: Test Date:9/19/2014 Comments:"NOTE1: Inline function defined in ""GlobalMacro.h"" are not unit tested.</p> <p>NOTE2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference.</p> <p>NOTE3:Regarding DD Modification:- DD: Received Version: 4 Modified version: 5 Range of variables "VehDyn_MinOffset_HwDeg_M_f32" and "VehDyn_MaxOffset_HwDeg_M_f32" are updated in DD with highlighted portion.</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

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VehDyn_Per1



Attributes	
Name	Value
Linker File	\$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 3.2
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\VehDyn\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

Test Case 1: Metrics Test

Specification

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

CPU Cycles:

TS1.1 2517.00 Cycles Shortest Execution Path
TS1.2 5302.00 Cycles Longest Execution Path

Description

Vector Description:

TS1.1"Shortest Execution Path=>(VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc == TRUE)=TRUE
(VehDyn_HiSpdLearnt_Cnt_M_Igc == FALSE)=FALSE
((VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc == FALSE) &&
(VehDyn_LoSpdLearnt_Cnt_M_Igc == TRUE))=FALSE
(VehDyn_HiSpdLearnt_Cnt_M_Igc == TRUE)=TRUE
(VehDyn_Initialize_Cnt_M_Igc == FALSE)=TRUE
(MaxAbsHwPos_HwDeg_T_f32 < D_ZERO_ULS_F32)=TRUE
(Deadband_Uls_T_f32 > k_TravelXCDeadband_Uls_f32) || (Deadband_Uls_T_f32 < D_ZERO_ULS_F32))=TRUE
(VDAuthority_Uls_T_f32 > D_NOAUTH_ULS_F32)=TRUE"
TS1.2"Longest Execution Path=>(VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc == TRUE)=FALSE
(VehDyn_HiSpdLearnt_Cnt_M_Igc == FALSE)=TRUE
((VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc == FALSE) &&
(VehDyn_LoSpdLearnt_Cnt_M_Igc == TRUE))=TRUE
(VehDyn_HiSpdLearnt_Cnt_M_Igc == TRUE)=FALSE
(VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc == TRUE)=FALSE
(VehDyn_LoSpdLearnt_Cnt_M_Igc == TRUE)=TRUE
(VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc == TRUE)=TRUE
(VehDyn_Initialize_Cnt_M_Igc == FALSE)=FALSE
(MaxAbsHwPos_HwDeg_T_f32 < D_ZERO_ULS_F32)=FALSE
(VDAuthority_Uls_T_f32 > D_NOAUTH_ULS_F32)=FALSE"

Test Step 1.1 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	42.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000650000002
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	125.099998
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	124.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.79999995
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	10.5
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	49475
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	38708
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000449999992
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000780000002
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	200.100006
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.4000001
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	274107514

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.49999994e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000650000002		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-2840		
VehDyn_MinOffset_HwDeg_M_f32	-1439.15405		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00025099999		
VehDyn_SLPHwAuth_Uls_M_f32	0.986999989		
VehDyn_SLPHwPos_HwDeg_M_f32	-1589.15002		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.330000013		
k_SysKinRatio_MtrDegpHwDeg_f32	10.0200005		
k_TravelXCDeadband_Uls_f32	1.25		
k_TravelXCHwAuthority_Uls_f32	0.0153999999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1720406272		
target_GetSystemTime_mS_u32_CurrentTime	4243378688		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1438.15002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	375.23999		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.10000038		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1350		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1600		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	0		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	375.23999	375.23999	✔
VehDyn_MinOffset_HwDeg M_f32	-1438.15002	-1438.15002	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79555798	7.7955575 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T				✓
Actual Function	Count	Expected Function	Count	

TEST DETAILS REPORT

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51000006e-006		
VehDyn_SLPHwAuth_Uls_M_f32	0		
VehDyn_SLPHwPos_HwDeg_M_f32	-1600		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	1		
k_TravelXCDeadband_Uls_f32	0		
k_TravelXCHwAuthority_Uls_f32	0		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	0		
target_GetSystemTime_mS_u32_CurrentTime	0		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1440.10999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	360		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-10		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	0		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	180		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	1		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	180	180 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	180	180 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	180	180	✔
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999	-1440.10999	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7999992	-18.7999992 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0	0 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✔

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VehDyn_Per1

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1		✓
Autocenter_f32	1	Autocenter_f32	1		✓
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1		✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1		✓
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1		✓
Autocenter_f32	1	Autocenter_f32	1		✓
GetSystemTime_mS_u32	2	GetSystemTime_mS_u32	2		✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1		✓

Test Case 2: Boundary Test



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VehDyn_Per1

Specification

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

CPU Cycles:

TS2.1 2641.00 Cycles
TS2.2 2525.00 Cycles
TS2.3 2437.00 Cycles
TS2.4 3430.00 Cycles
TS2.5 2406.00 Cycles
TS2.6 3383.00 Cycles
TS2.7 2402.00 Cycles
TS2.8 3410.00 Cycles
TS2.9 2400.00 Cycles
TS2.10 3447.00 Cycles
TS2.11 2358.00 Cycles
TS2.12 3464.00 Cycles
TS2.13 2362.00 Cycles
TS2.14 3403.00 Cycles
TS2.15 2401.00 Cycles
TS2.16 3435.00 Cycles
TS2.17 2353.00 Cycles
TS2.18 3379.00 Cycles
TS2.19 2399.00 Cycles
TS2.20 3549.00 Cycles
TS2.21 2474.00 Cycles
TS2.22 3360.00 Cycles
TS2.23 2426.00 Cycles
TS2.24 3435.00 Cycles
TS2.25 2466.00 Cycles
TS2.26 3416.00 Cycles
TS2.27 2383.00 Cycles
TS2.28 3406.00 Cycles
TS2.29 2415.00 Cycles
TS2.30 3369.00 Cycles
TS2.31 2383.00 Cycles
TS2.32 3426.00 Cycles
TS2.33 2381.00 Cycles
TS2.34 3339.00 Cycles
TS2.35 2407.00 Cycles
TS2.36 3432.00 Cycles
TS2.37 2394.00 Cycles
TS2.38 3328.00 Cycles
TS2.39 3352.00 Cycles
TS2.40 2381.00 Cycles
TS2.41 3455.00 Cycles
TS2.42 2956.00 Cycles
TS2.43 3422.00 Cycles
TS2.44 2409.00 Cycles
TS2.45 3426.00 Cycles
TS2.46 2341.00 Cycles
TS2.47 3367.00 Cycles
TS2.48 2394.00 Cycles
TS2.49 3480.00 Cycles
TS2.50 2370.00 Cycles
TS2.51 3402.00 Cycles
TS2.52 2417.00 Cycles
TS2.53 3470.00 Cycles
TS2.54 2357.00 Cycles
TS2.55 3389.00 Cycles
TS2.56 2411.00 Cycles
TS2.57 3416.00 Cycles
TS2.58 2355.00 Cycles
TS2.59 3405.00 Cycles
TS2.60 2432.00 Cycles
TS2.61 3419.00 Cycles
TS2.62 3433.00 Cycles
TS2.63 3307.00 Cycles
TS2.64 3426.00 Cycles
TS2.65 2304.00 Cycles
TS2.66 3415.00 Cycles
TS2.67 2356.00 Cycles
TS2.68 3433.00 Cycles
TS2.69 2301.00 Cycles
TS2.70 3401.00 Cycles
TS2.71 2396.00 Cycles
TS2.72 2317.00 Cycles
TS2.73 3456.00 Cycles
TS2.74 2326.00 Cycles
TS2.75 3365.00 Cycles
TS2.76 2438.00 Cycles
TS2.77 3514.00 Cycles
TS2.78 2370.00 Cycles
TS2.79 3413.00 Cycles
TS2.80 3507.00 Cycles
TS2.81 3422.00 Cycles
TS2.82 2298.00 Cycles
TS2.83 3387.00 Cycles
TS2.84 2331.00 Cycles
TS2.85 3493.00 Cycles
TS2.86 2326.00 Cycles
TS2.87 3372.00 Cycles
TS2.88 2376.00 Cycles
TS2.89 3474.00 Cycles
TS2.90 2295.00 Cycles
TS2.91 3532.00 Cycles
TS2.92 2352.00 Cycles
TS2.93 3388.00 Cycles
TS2.94 2298.00 Cycles
TS2.95 3315.00 Cycles
TS2.96 3550.00 Cycles
TS2.97 3431.00 Cycles
TS2.98 2295.00 Cycles
TS2.99 3438.00 Cycles
TS2.100 2356.00 Cycles
TS2.101 3426.00 Cycles
TS2.102 2324.00 Cycles
TS2.103 3368.00 Cycles
TS2.104 3444.00 Cycles
TS2.105 2364.00 Cycles
TS2.106 3407.00 Cycles
TS2.107 2394.00 Cycles
TS2.108 3430.00 Cycles

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VehDyn_Per1

TS2.109	2366.00	Cycles
TS2.110	3413.00	Cycles
TS2.111	2306.00	Cycles
TS2.112	3424.00	Cycles
TS2.113	3524.00	Cycles
TS2.114	2335.00	Cycles
TS2.115	3393.00	Cycles
TS2.116	2366.00	Cycles
TS2.117	3418.00	Cycles
TS2.118	2340.00	Cycles
TS2.119	3370.00	Cycles
TS2.120	2353.00	Cycles
TS2.121	3449.00	Cycles
TS2.122	3516.00	Cycles
TS2.123	3419.00	Cycles
TS2.124	2339.00	Cycles
TS2.125	3405.00	Cycles
TS2.126	2321.00	Cycles
TS2.127	3326.00	Cycles
TS2.128	2440.00	Cycles
TS2.129	3420.00	Cycles
TS2.130	2375.00	Cycles
TS2.131	3365.00	Cycles
TS2.132	2336.00	Cycles
TS2.133	3472.00	Cycles
TS2.134	2298.00	Cycles
TS2.135	3449.00	Cycles
TS2.136	2370.00	Cycles
TS2.137	3456.00	Cycles
TS2.138	2301.00	Cycles
TS2.139	3372.00	Cycles
TS2.140	2344.00	Cycles
TS2.141	3474.00	Cycles
TS2.142	2295.00	Cycles
TS2.143	3496.00	Cycles
TS2.144	2471.00	Cycles
TS2.145	2409.00	Cycles
TS2.146	3381.00	Cycles
TS2.147	2287.00	Cycles
TS2.148	3444.00	Cycles
TS2.149	2336.00	Cycles
TS2.150	3399.00	Cycles
TS2.151	2380.00	Cycles
TS2.152	2352.00	Cycles
TS2.153	3442.00	Cycles
TS2.154	2295.00	Cycles
TS2.155	3373.00	Cycles
TS2.156	2452.00	Cycles
TS2.157	3460.00	Cycles
TS2.158	3484.00	Cycles
TS2.159	2326.00	Cycles
TS2.160	2425.00	Cycles
TS2.161	2400.00	Cycles
TS2.162	3420.00	Cycles
TS2.163	3434.00	Cycles
TS2.164	3431.00	Cycles
TS2.165	1395.00	Cycles
TS2.166	3430.00	Cycles
TS2.167	1422.00	Cycles
TS2.168	3477.00	Cycles
TS2.169	2400.00	Cycles
TS2.170	3390.00	Cycles
TS2.171	2412.00	Cycles
TS2.172	4558.00	Cycles
TS2.173	2353.00	Cycles
TS2.174	2355.00	Cycles
TS2.175	3399.00	Cycles
TS2.176	2392.00	Cycles
TS2.177	3425.00	Cycles
TS2.178	2439.00	Cycles
TS2.179	3381.00	Cycles
TS2.180	3425.00	Cycles
TS2.181	2345.00	Cycles
TS2.182	3377.00	Cycles
TS2.183	2317.00	Cycles
TS2.184	3438.00	Cycles
TS2.185	2318.00	Cycles
TS2.186	3381.00	Cycles
TS2.187	2302.00	Cycles
TS2.188	3438.00	Cycles
TS2.189	2312.00	Cycles
TS2.190	3436.00	Cycles
TS2.191	2407.00	Cycles
TS2.192	3455.00	Cycles
TS2.193	2434.00	Cycles
TS2.194	2416.00	Cycles
TS2.195	3406.00	Cycles
TS2.196	2320.00	Cycles
TS2.197	3414.00	Cycles
TS2.198	2317.00	Cycles
TS2.199	3458.00	Cycles
TS2.200	2451.00	Cycles
TS2.201	2335.00	Cycles
TS2.202	3439.00	Cycles
TS2.203	2276.00	Cycles
TS2.204	3446.00	Cycles
TS2.205	2462.00	Cycles
TS2.206	3448.00	Cycles
TS2.207	3556.00	Cycles
TS2.208	2355.00	Cycles
TS2.209	2404.00	Cycles
TS2.210	2382.00	Cycles

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VehDyn_Per1

Description Vector Description:

TS2.1All Min
TS2.2All Max
TS2.3VehicleSpeed_Kph_f32 = Min
TS2.4VehicleSpeed_Kph_f32 = Max
TS2.5VehicleSpeed_Kph_f32 = Pos
TS2.6HwTorque_HwNm_f32 = Min
TS2.7HwTorque_HwNm_f32 = Max
TS2.8HwTorque_HwNm_f32 = Zero
TS2.9HwTorque_HwNm_f32 = Pos
TS2.10HwTorque_HwNm_f32 = Neg
TS2.11TorqueCmdCRF_MtrNm_f32 = Min
TS2.12TorqueCmdCRF_MtrNm_f32 = Max
TS2.13TorqueCmdCRF_MtrNm_f32 = Zero
TS2.14TorqueCmdCRF_MtrNm_f32 = Pos
TS2.15TorqueCmdCRF_MtrNm_f32 = Neg
TS2.16VehicleSpeedValid_Cnt_Igc = Min
TS2.17VehicleSpeedValid_Cnt_Igc = Max
TS2.18MotorVelCRF_MtrRadpS_f32 = Min
TS2.19MotorVelCRF_MtrRadpS_f32 = Max
TS2.20MotorVelCRF_MtrRadpS_f32 = Zero
TS2.21MotorVelCRF_MtrRadpS_f32 = Pos
TS2.22MotorVelCRF_MtrRadpS_f32 = Neg
TS2.23RelHwPos_HwDeg_f32 = Min
TS2.24RelHwPos_HwDeg_f32 = Max
TS2.25RelHwPos_HwDeg_f32 = Zero
TS2.26RelHwPos_HwDeg_f32 = Pos
TS2.27RelHwPos_HwDeg_f32 = Neg
TS2.28k_SysKinRatio_MtrDegpHwDeg_f32 = Min
TS2.29k_SysKinRatio_MtrDegpHwDeg_f32 = Max
TS2.30k_SysKinRatio_MtrDegpHwDeg_f32 = Pos
TS2.31VehDyn_PinTrqSV_M_Str.SV = Min
TS2.32VehDyn_PinTrqSV_M_Str.SV = Max
TS2.33VehDyn_PinTrqSV_M_Str.SV = Zero
TS2.34VehDyn_PinTrqSV_M_Str.SV = Pos
TS2.35VehDyn_PinTrqSV_M_Str.SV = Neg
TS2.36VehDyn_PinTrqSV_M_Str.K = Min
TS2.37VehDyn_PinTrqSV_M_Str.K = Max
TS2.38VehDyn_PinTrqSV_M_Str.K = Mid
TS2.39VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32 = Min
TS2.40VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32 = Max
TS2.41VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32 = Pos
TS2.42VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32 = Min
TS2.43VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32 = Max
TS2.44VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32 = Pos
TS2.45VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32 = Min
TS2.46VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32 = Max
TS2.47VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32 = Pos
TS2.48VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32 = Min
TS2.49VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32 = Max
TS2.50VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32 = Pos
TS2.51VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16 = Min
TS2.52VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16 = Max
TS2.53VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16 = Pos
TS2.54VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16 = Min
TS2.55VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16 = Max
TS2.56VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16 = Pos
TS2.57VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Min
TS2.58VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Max
TS2.59VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Zero
TS2.60VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Pos
TS2.61VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Neg
TS2.62VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K = Min
TS2.63VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K = Max
TS2.64VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K = Mid
TS2.65VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Min
TS2.66VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Max
TS2.67VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Zero
TS2.68VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Pos
TS2.69VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Neg
TS2.70VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K = Min
TS2.71VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K = Max
TS2.72VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K = Mid
TS2.73VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32 = Min
TS2.74VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32 = Max
TS2.75VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32 = Pos
TS2.76VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32 = Min
TS2.77VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32 = Max
TS2.78VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32 = Pos
TS2.79VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32 = Min
TS2.80VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32 = Max
TS2.81VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32 = Pos
TS2.82VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32 = Min
TS2.83VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32 = Max
TS2.84VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32 = Pos
TS2.85VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32 = Min
TS2.86VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32 = Max
TS2.87VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32 = Pos
TS2.88VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32 = Min
TS2.89VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32 = Max
TS2.90VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32 = Pos
TS2.91VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16 = Min
TS2.92VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16 = Max
TS2.93VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16 = Pos
TS2.94VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16 = Min

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TS2.95VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16 = Max
TS2.96VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16 = Pos
TS2.97VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Min
TS2.98VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Max
TS2.99VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Zero
TS2.100VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Pos
TS2.101VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV= Neg
TS2.102VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K= Min
TS2.103VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K = Max
TS2.104VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K= Mid
TS2.105VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV= Min
TS2.106VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Max
TS2.107VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Zero
TS2.108VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Pos
TS2.109VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV= Neg
TS2.110VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K = Min
TS2.111VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K= Max
TS2.112VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K = Mid
TS2.113VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32 = Min
TS2.114VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32 = Max
TS2.115VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32 = Pos
TS2.116VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32 = Min
TS2.117VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32 = Max
TS2.118VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32 = Pos
TS2.119VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadps_f32 = Min
TS2.120VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadps_f32 = Max
TS2.121VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadps_f32 = Pos
TS2.122VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32 = Min
TS2.123VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32 = Max
TS2.124VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32= Pos
TS2.125VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32= Min
TS2.126VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32 = Max
TS2.127VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32 = Pos
TS2.128VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32 = Min
TS2.129VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32 = Max
TS2.130VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32 = Pos
TS2.131VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16 = Min
TS2.132VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16= Max
TS2.133VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16 = Pos
TS2.134VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16 = Min
TS2.135VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16= Max
TS2.136VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16= Pos
TS2.137VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Min
TS2.138VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Max
TS2.139VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV= Zero
TS2.140VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV = Pos
TS2.141VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV= Neg
TS2.142VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K = Min
TS2.143VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K = Max
TS2.144VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K = Mid
TS2.145VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Min
TS2.146VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Max
TS2.147VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV= Zero
TS2.148VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Pos
TS2.149VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Neg
TS2.150VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K = Min
TS2.151VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K = Max
TS2.152VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K = Mid
TS2.153VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32= Min
TS2.154VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32 = Max
TS2.155VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32 = Pos
TS2.156VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32= Min
TS2.157VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32 = Max
TS2.158VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32 = Pos
TS2.159k_HiSpdVDAuthority_Uls_f32 = Min
TS2.160k_HiSpdVDAuthority_Uls_f32= Max
TS2.161k_HiSpdVDAuthority_Uls_f32= Pos
TS2.162k_LoSpdVDAuthority_Uls_f32= Min
TS2.163k_LoSpdVDAuthority_Uls_f32= Max
TS2.164k_LoSpdVDAuthority_Uls_f32= Pos
TS2.165VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc= Min
TS2.166VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc = Max
TS2.167VehDyn_LoSpdLearnt_Cnt_M_lgc= Min
TS2.168VehDyn_LoSpdLearnt_Cnt_M_lgc = Max
TS2.169VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc = Min
TS2.170VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc= Max
TS2.171VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc = Min
TS2.172VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc = Max
TS2.173VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc= Min
TS2.174VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc= Max
TS2.175VehDyn_HiSpdLearnt_Cnt_M_lgc = Min
TS2.176VehDyn_HiSpdLearnt_Cnt_M_lgc = Max
TS2.177DtrmnElapsedTime_mS_u32 = Min
TS2.178DtrmnElapsedTime_mS_u32 = Max
TS2.179DtrmnElapsedTime_mS_u32 = Pos
TS2.180GetSystemTime_mS_u32 = Min
TS2.181GetSystemTime_mS_u32 = Max
TS2.182GetSystemTime_mS_u32 = Pos
TS2.183CwEOT_HwDeg_f32 = Min
TS2.184CwEOT_HwDeg_f32 = Max
TS2.185 CwEOT_HwDeg_f32 = Pos
TS2.186 CwEOT_HwDeg_f32 = Min
TS2.187CwEOT_HwDeg_f32 = Max
TS2.188CwEOT_HwDeg_f32 = Neg
TS2.189VehDyn_Initialize_Cnt_M_lgc = Min
TS2.190VehDyn_Initialize_Cnt_M_lgc = Max

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TS2.191VehDyn_MaxOffset_HwDeg_M_f32 = Min
 TS2.192VehDyn_MaxOffset_HwDeg_M_f32 = Max
 TS2.193VehDyn_MaxOffset_HwDeg_M_f32 = Pos
 TS2.194VehDyn_MinOffset_HwDeg_M_f32 = Min
 TS2.195VehDyn_MinOffset_HwDeg_M_f32 = Max
 TS2.196VehDyn_MinOffset_HwDeg_M_f32 = Neg
 TS2.197k_TravelXCDeadband_Uls_f32 = Min
 TS2.198k_TravelXCDeadband_Uls_f32 = Max
 TS2.199k_TravelXCDeadband_Uls_f32 = Pos
 TS2.200k_TravelXCHwAuthority_Uls_f32 = Min
 TS2.201k_TravelXCHwAuthority_Uls_f32 = Max
 TS2.202k_TravelXCHwAuthority_Uls_f32 = Pos
 TS2.203VehDyn_SLPHwPos_HwDeg_M_f32 = Min
 TS2.204VehDyn_SLPHwPos_HwDeg_M_f32 = Max
 TS2.205VehDyn_SLPHwPos_HwDeg_M_f32 = Zero
 TS2.206VehDyn_SLPHwPos_HwDeg_M_f32 = Pos
 TS2.207VehDyn_SLPHwPos_HwDeg_M_f32 = Neg
 TS2.208VehDyn_SLPHwAuth_Uls_M_f32 = Min
 TS2.209VehDyn_SLPHwAuth_Uls_M_f32 = Max
 TS2.210VehDyn_SLPHwAuth_Uls_M_f32 = Pos

Test Step 2.1 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	0
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	0
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	0
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	0
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	0
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	0
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	0
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	0
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	0
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	0
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	0
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	0
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	0
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	0
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	0
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	0
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	0
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	0
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0

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VehDyn_Per1

Name	Input Value		
VehDyn_MaxOffset_HwDeg_M_f32	-2840		
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51000006e-006		
VehDyn_SLPHwAuth_Uls_M_f32	0		
VehDyn_SLPHwPos_HwDeg_M_f32	-1600		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	1		
k_TravelXCDeadband_Uls_f32	0		
k_TravelXCHwAuthority_Uls_f32	0		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	0		
target_GetSystemTime_mS_u32_CurrentTime	0		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1440.10999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	360		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-10		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1350		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-3200		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	0		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	360	360	✔
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999	-1440.10999	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7999992	-18.7999992 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0	0 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.2 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	700
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	255
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	100
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	60000
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	60000
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4294967295
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4294967295
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125584798
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125584798
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	700
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	255
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	20
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	100
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	60000
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	60000
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4294967295
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4294967295
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125584798
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125584798
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	700
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	255
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	20
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	100
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	60000
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	60000
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4294967295
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4294967295
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125584798
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125584798
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnM_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnM_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	1440.10999
VehDyn_MinOffset_HwDeg_M_f32	2840
VehDyn_PinTrqSV_M_str.SV_Uls_f32	18.7999992
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00125584798
VehDyn_SLPHwAuth_Uls_M_f32	1
VehDyn_SLPHwPos_HwDeg_M_f32	1600
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	100
k_TravelXCDeadband_Uls_f32	100
k_TravelXCHwAuthority_Uls_f32	1
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4294967295
target_GetSystemTime_mS_u32_CurrentTime	4294967295
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32

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Name	Input Value		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-360		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1440.10999		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	10		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1350		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	3200		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	512		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-1759.89001	-1759.89001	✔
VehDyn_MinOffset_HwDeg_M_f32	2840	2840	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	18.7890587	18.7890587 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	0	0 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.3 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	42.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000650000002
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	125.099998
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	124.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.79999995
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	10.5
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	49475
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	38708
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000449999992
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000780000002
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	200.100006
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.4000001
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.49999994e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000650000002
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	369.15799
VehDyn_MinOffset_HwDeg_M_f32	-1439.15405
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00025099999
VehDyn_SLPHwAuth_Uls_M_f32	0.986999989
VehDyn_SLPHwPos_HwDeg_M_f32	-1589.15002
k_HiSpdVDAuthority_Uls_f32	0.899999976
k_LoSpdVDAuthority_Uls_f32	0.330000013
k_SysKinRatio_MtrDegHwDeg_f32	10.0200005
k_TravelXCDeadband_Uls_f32	1.25
k_TravelXCHwAuthority_Uls_f32	0.0153999999
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1720406272
target_GetSystemTime_mS_u32_CurrentTime	4243378688
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1438.15002
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	375.23999
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.10000038
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-900.210022

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Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2880.20996		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	0		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	375.23999	375.23999	✓

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.5		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	25		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43128		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58869		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000452000007		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000782000017		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	457.399994		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.399994		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.3999996		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	25532		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27401		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2160073393		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	328928812		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.54000006e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000652000017		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	-374.149994		
VehDyn_MinOffset_HwDeg_M_f32	-1432.46997		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000251999998		
VehDyn_SLPHwAuth_Uls_M_f32	0.972000003		
VehDyn_SLPHwPos_HwDeg_M_f32	-1578.89001		
k_HiSpdVDAuthority_Uls_f32	0.349999994		
k_LoSpdVDAuthority_Uls_f32	0.889999986		
k_SysKinRatio_MtrDegpHwDeg_f32	25.1000004		
k_TravelXCDeadband_Uls_f32	2.69000006		
k_TravelXCHwAuthority_Uls_f32	0.0166250002		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2659241984		
target_GetSystemTime_mS_u32_CurrentTime	1050692864		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1431.89001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	386.147003		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	9.5		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	800.869995		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	200.839996		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	512		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2160073393	2160073393	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998	1885.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-374.149994	-374.149994	✓
VehDyn_MinOffset_HwDeg_M_f32	-1432.46997	-1432.46997	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20166588	3.20166588 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.889999986	0.889999986 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.5 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	566.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	84.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	25.1000004
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.53000007e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000653999974
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	456.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	64.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	9.10000038
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000859000022
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000783999974
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	566.299988		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	84.1999969		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.30000019		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	25.2000008		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43128		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58869		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.58e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000653999974		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	379.141998		
VehDyn_MinOffset_HwDeg_M_f32	-1425.78601		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000253000006		
VehDyn_SLPHwAuth_Uls_M_f32	0.957000017		
VehDyn_SLPHwPos_HwDeg_M_f32	-1568.63		
k_HiSpdVDAuthority_Uls_f32	0.660000026		
k_LoSpdVDAuthority_Uls_f32	0.800000012		
k_SysKinRatio_MtrDegpHwDeg_f32	86.1999969		
k_TravelXCDeadband_Uls_f32	4.13000011		
k_TravelXCHwAuthority_Uls_f32	0.0178500004		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2942063360		
target_GetSystemTime_mS_u32_CurrentTime	3039943680		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1425.63		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	397.053986		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8.80000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-418.119995		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2000.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	3.20000005		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	256.640015		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998	1885.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3039943680	3039943680	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995	-1887.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998	1885.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	379.141998	379.141998	✓
VehDyn_MinOffset_HwDeg_M_f32	574.469971	574.469971	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.40085077	-5.40085077 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.660000026	0.660000026 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.6 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	73.4000015	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	64.4000015	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	9.39999962	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.4000015	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53759	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18715	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.53999997e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000655999989	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	566.5	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	52.7999992	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.80000019	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	56.1399994	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	13352	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	14442	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4290967295	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.09998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000126600004	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00078599999	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	73.1999969	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	64.3000031	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	9.19999981	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.3000031	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53759	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	18715	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.61999994e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000655999989		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	-384.134003		
VehDyn_MinOffset_HwDeg_M_f32	-1419.10205		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000254000013		
VehDyn_SLPHwAuth_Uls_M_f32	0.941999972		
VehDyn_SLPHwPos_HwDeg_M_f32	-1558.37		
k_HiSpdVDAuthority_Uls_f32	0.870000005		
k_LoSpdVDAuthority_Uls_f32	0.699999988		
k_SysKinRatio_MtrDegpHwDeg_f32	56.5		
k_TravelXCDeadband_Uls_f32	5.57000017		
k_TravelXCHwAuthority_Uls_f32	0.0190750007		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1117112832		
target_GetSystemTime_mS_u32_CurrentTime	1316564736		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1419.37		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	407.960999		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-10		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-425.25		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1900.40002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-5.4000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	10.2139997		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024	1024	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995	-1887.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.09998	-1753.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995	-1887.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	407.960999	407.960999	✔
VehDyn_MinOffset_HwDeg_M_f32	-1419.37	-1419.37	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59550524	7.59550524 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.699999988	0.699999988 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-899.799927	-899.799988 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.7 (Repeat Count = 1) ✓

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	10.1000004
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	7.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	56.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4290967295
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.55000009e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000658000004
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	631.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	34.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	54.2299995
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1078320779
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000167299993
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000788000005
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	10.6999998
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	52.7000008
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.69999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	56.7000008
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4290967295
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.66000006e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000658000004
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	389.126007
VehDyn_MinOffset_HwDeg_M_f32	-1412.41797

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Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000254999992		
VehDyn_SLPHwAuth_Uls_M_f32	0.926999986		
VehDyn_SLPHwPos_HwDeg_M_f32	-1548.10999		
k_HiSpdVDAuthority_Uls_f32	0.75999999		
k_LoSpdVDAuthority_Uls_f32	0.560000002		
k_SysKinRatio_MtrDegpHwDeg_f32	54.2999992		
k_TravelXCDeadband_Uls_f32	7.01000023		
k_TravelXCHwAuthority_Uls_f32	0.0203000009		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1736795392		
target_GetSystemTime_mS_u32_CurrentTime	2075080192		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1413.10999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	418.868011		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	10		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	752.75		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1900.69995		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	20.1399994		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.09998	-1753.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012	935.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.09998	-1753.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	418.868011	418.868011	✔
VehDyn_MinOffset_HwDeg_M_f32	-1413.10999	-1413.10999	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.50220323	1.50220323 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.75999999	0.75999999 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.8 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	56.2999992
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	34.2999992
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.30000019
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	54.2999992
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1078320779
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.55999998e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.200012
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00066000002
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	10.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	18.1000004
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	85.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.299988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000207999998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000790000002
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	56.2999992
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	34.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.30000019
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	54.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1078320779
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.7e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.200012
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000660000002
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	394.118011
VehDyn_MinOffset_HwDeg_M_f32	-1405.73401
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000255999999
VehDyn_SLPHwAuth_Uls_M_f32	0.912
VehDyn_SLPHwPos_HwDeg_M_f32	-1537.84998
k_HiSpdVDAuthority_Uls_f32	0.456
k_LoSpdVDAuthority_Uls_f32	0.230000004
k_SysKinRatio_MtrDegpHwDeg_f32	85.0999985
k_TravelXCDeadband_Uls_f32	8.44999981
k_TravelXCHwAuthority_Uls_f32	0.0215249993
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3437401088
target_GetSystemTime_mS_u32_CurrentTime	954802432
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1406.84998
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	429.774994
target_VehDyn_Per1_HwTorque_HwNm_f32.value	0
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-158.119995
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1482.59998
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.5
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	25.5799999

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012	935.200012 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	954802432	954802432	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.299988	-888.299988 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	954802432	954802432	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012	935.200012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	394.118011	394.118011	✓
VehDyn_MinOffset_HwDeg_M_f32	75.75	75.75	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.59958589	-1.59958589 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.230000004	0.230000004 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.9 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	86.1999969
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	18.2000008
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	3.20000005
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	85.1999969
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	33198

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.099976
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.57000011e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000661999977
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	56.0999985
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	88.8000031
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.8000031
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000248700002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791999977
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	86.6999969
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	18.2999992
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.70000005
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	85.3000031
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.099976
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.73999995e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000661999977
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	399.109985
VehDyn_MinOffset_HwDeg_M_f32	-1399.05005
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000257000007
VehDyn_SLPHwAuth_Uls_M_f32	0.897000015
VehDyn_SLPHwPos_HwDeg_M_f32	-1527.58997
k_HiSpdVDAuthority_Uls_f32	0.123000003
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	96.3000031
k_TravelXCDeadband_Uls_f32	9.89000034
k_TravelXCHwAuthority_Uls_f32	0.0227499995
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3494315776
target_GetSystemTime_mS_u32_CurrentTime	2728878080
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1400.58997
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	440.682007
target_VehDyn_Per1_HwTorque_HwNm_f32.value	5.5
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	753.570007

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.099976		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.60000002		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	30.0400009		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.099976	-888.099976 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.5	425.5 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.09998	1988.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.099976	-888.099976 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	399.109985	399.109985	✓
VehDyn_MinOffset_HwDeg_M_f32	-647.48999	-647.48999	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7947874	-14.7947874 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.123000003	0.123000003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.10 (Repeat Count = 1)		
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	75.0999985	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	88.0999985	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	1.10000002	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21335	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	34188	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.58e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000663999992	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	76.0999985	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.2999992		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000289399992		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000793999992		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	75.5		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	88.8000031		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.5		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.8000031		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21335		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34188		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.78000007e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000663999992		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	404.10199		
VehDyn_MinOffset_HwDeg_M_f32	-1392.36597		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000257999985		
VehDyn_SLPHwAuth_Uls_M_f32	0.882000029		
VehDyn_SLPHwPos_HwDeg_M_f32	-1517.32996		
k_HiSpdVDAuthority_Uls_f32	0.637000024		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	32.5		
k_TravelXCDeadband_Uls_f32	11.3299999		
k_TravelXCHwAuthority_Uls_f32	0.0239749998		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	463842816		
target_GetSystemTime_mS_u32_CurrentTime	824746752		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1394.32996		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	451.588989		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-7.30000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	159.455994		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	456.100006		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	35.8899994		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012	425.200012 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005	1988.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.19995	-2000.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012	425.200012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005	1988.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	451.588989	451.588989	✓
VehDyn_MinOffset_HwDeg_M_f32	-1394.32996	-1394.32996	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.79356	17.79356 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.882000029	0.882000029 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1517.32996	-1517.32996 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.11 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	98.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	76.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.58999989e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000666000007
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	75.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	86.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	52.2999992
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	29076
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	43868
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000330100011
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000796000008
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	98.8000031		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	76.5		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.79999995		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.5		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	12258		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36416		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.82000001e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000666000007		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	409.093994		
VehDyn_MinOffset_HwDeg_M_f32	-1385.68201		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000258999993		
VehDyn_SLPHwAuth_Uls_M_f32	0.866999984		
VehDyn_SLPHwPos_HwDeg_M_f32	-1507.06995		
k_HiSpdVDAuthority_Uls_f32	0.278719991		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	52.2999992		
k_TravelXCDeadband_Uls_f32	12.7700005		
k_TravelXCHwAuthority_Uls_f32	0.0252		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1759885568		
target_GetSystemTime_mS_u32_CurrentTime	309385728		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1388.06995		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	462.496002		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-7.0999999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1100.45801		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500.04004		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	36.4199982		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998	-2000.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	309385728	309385728	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005	1900.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998	-2000.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	462.496002	462.496002	✓
VehDyn_MinOffset_HwDeg_M_f32	-1388.06995	-1388.06995	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7.00006962	-7.00006962 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.278719991	0.278719991 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-99.9399414	-99.9400024 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.12 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	66.9000015	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	86.9000015	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.9000001	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.9000015	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	29076	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	43868	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.60000002e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000668000022	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	98.0999985	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96.0999985	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.5	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	41.0999985	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	32821	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	53946	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.09998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.0003708	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.30005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000798000023	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	66.0999985	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.1999969	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.2000008	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	29076	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	43868	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.85999995e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000668000022		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	414.085999		
VehDyn_MinOffset_HwDeg_M_f32	-1378.99805		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000260000001		
VehDyn_SLPHwAuth_Uls_M_f32	0.851999998		
VehDyn_SLPHwPos_HwDeg_M_f32	-1496.81006		
k_HiSpdVDAuthority_Uls_f32	0.277799994		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	41.5		
k_TravelXCDeadband_Uls_f32	14.21		
k_TravelXCHwAuthority_Uls_f32	0.0264250003		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1662097408		
target_GetSystemTime_mS_u32_CurrentTime	4164171008		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1381.81006		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	473.403015		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	8.85000038		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1235.09998		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2600.6001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	38.8800011		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005	1900.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005	-2400.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.30005	2800.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005	1900.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005	-2400.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	-2127.19702	-2127.19702	✔
VehDyn_MinOffset_HwDeg_M_f32	-1378.99805	-1378.99805	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30071831	6.30071831 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.851999998	0.851999998 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1496.81006	-1496.81006 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.13 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	34.7999992
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	96.8000031
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.80000019
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	41.7999992
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.60999991e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000669999979
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	665
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	106.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	63.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00041149999
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00079999998
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	34.2000008
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	96.0999985
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.19999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.90000007e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000669999979
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	419.078003
VehDyn_MinOffset_HwDeg_M_f32	-1372.31396

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000261000008		
VehDyn_SLPHwAuth_Uls_M_f32	0.837000012		
VehDyn_SLPHwPos_HwDeg_M_f32	-1486.55005		
k_HiSpdVDAuthority_Uls_f32	0.272780001		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	63.0999985		
k_TravelXCDeadband_Uls_f32	15.6499996		
k_TravelXCHwAuthority_Uls_f32	0.0276500005		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2127166208		
target_GetSystemTime_mS_u32_CurrentTime	437658624		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1375.55005		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	484.309998		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.10000038		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154.199997		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400.73999		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	0		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	45.7900009		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	437658624	437658624	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	419.078003	419.078003	✔
VehDyn_MinOffset_HwDeg_M_f32	1025.18994	1025.18994	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1936579	15.1936579 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.272780001	0.272780001 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-962.640015	-962.640015 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.14 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	2.0999999
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	106.099998
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.62000003e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000671999995
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	34.0999985
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	116.099998
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	88.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000452200009
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000801999995
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	2.0999999
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	106.199997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	63.2000008
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.94000001e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000671999995
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	424.070007
VehDyn_MinOffset_HwDeg_M_f32	-1365.63
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000261999987
VehDyn_SLPHwAuth_Uls_M_f32	0.822000027
VehDyn_SLPHwPos_HwDeg_M_f32	-1476.29004
k_HiSpdVDAuthority_Uls_f32	0.899999976
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	88.3000031
k_TravelXCDeadband_Uls_f32	17.0900002
k_TravelXCHwAuthority_Uls_f32	0.0288750008
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4243378688
target_GetSystemTime_mS_u32_CurrentTime	3941357312
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1369.29004
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	495.21701
target_VehDyn_Per1_HwTorque_HwNm_f32.value	5.5
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.299988
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2800.36011
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.4000001
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	456.140015

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438	-1438 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.5	1950.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	495.21701	495.21701	✓
VehDyn_MinOffset_HwDeg_M_f32	-1369.29004	-1369.29004	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.9977865	13.9977865 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.822000027	0.822000027 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1476.29004	-1476.29004 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.15 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	120.699997
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	116.699997
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.7000008
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	88.6999969
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	2291

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.62999993e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00067400001
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	2.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	126.099998
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	75.5
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	109643620
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000492900028
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00080400001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	120.300003
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	116.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.2999992
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	88.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.97999995e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00067400001
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	429.062012
VehDyn_MinOffset_HwDeg_M_f32	-1358.94604
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89999962
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000262999994
VehDyn_SLPHwAuth_Uls_M_f32	0.806999981
VehDyn_SLPHwPos_HwDeg_M_f32	-1466.03003
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	75.5
k_TravelXCDeadband_Uls_f32	18.5300007
k_TravelXCHwAuthority_Uls_f32	0.0300999992
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1050692864
target_GetSystemTime_mS_u32_CurrentTime	3304439296
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1363.03003
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	506.123993
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8.80000019
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253.09998

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1438.41003		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-3.20000005		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	45.8699989		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.19995	1950.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	109643620	109643620	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995	1885.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.19995	1950.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	506.123993	506.123993	✓
VehDyn_MinOffset_HwDeg_M_f32	-1363.03003	-1363.03003	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89533329	8.89533329 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.16 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	350.899994
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	126.900002
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.8999996
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.9000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	109643620
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.64000005e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000676000025
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	120.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	136

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	97		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	164464918		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000533599989		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.100006		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000806000025		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	350.5		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.300003		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.5		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	75.3000031		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	38868		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	57944		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	109643620		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.02000008e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000676000025		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	434.053986		
VehDyn_MinOffset_HwDeg_M_f32	-1352.26196		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8999996		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000264000002		
VehDyn_SLPHwAuth_Uls_M_f32	0.791999996		
VehDyn_SLPHwPos_HwDeg_M_f32	-1455.77002		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	97.0999985		
k_TravelXCDeadband_Uls_f32	19.9699993		
k_TravelXCHwAuthority_Uls_f32	0.0313250013		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3039943680		
target_GetSystemTime_mS_u32_CurrentTime	2167769344		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1356.77002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	517.031006		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	2.0999999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.5		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	753.5		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	75.9800034		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	109643620	109643620	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988	456.299988 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.5	1885.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	164464918	164464918	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.100006	142.100006 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	109643620	109643620	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988	456.299988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.5	1885.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-236.468994	-236.468994	✓
VehDyn_MinOffset_HwDeg_M_f32	-1352.26196	-1352.26196	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.896863	13.896863 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.791999996	0.791999996 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1455.77002	-1455.77002 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.17 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	400.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	136.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	97.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	164464918
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.649999994e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.300003
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000677999982
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	350.100006
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	146
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	219286216
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000574300007
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000807999982
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	400.299988		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.5		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.2999992		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	97.5		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53970		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52282		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	164464918		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.06000002e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.300003		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000677999982		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	439.04599		
VehDyn_MinOffset_HwDeg_M_f32	-1345.578		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000265000001		
VehDyn_SLPHwAuth_Uls_M_f32	0.77700001		
VehDyn_SLPHwPos_HwDeg_M_f32	-1445.51001		
k_HiSpdVDAuthority_Uls_f32	0.779999971		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	86.3000031		
k_TravelXCDeadband_Uls_f32	21.4099998		
k_TravelXCHwAuthority_Uls_f32	0.0325499997		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1316564736		
target_GetSystemTime_mS_u32_CurrentTime	3714197504		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1350.51001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	527.937988		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.10000002		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456.5		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1988.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	159.110001		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.300003	142.300003 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005	2600.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	164464918	164464918	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.300003	142.300003 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	439.04599	439.04599	✓
VehDyn_MinOffset_HwDeg_M_f32	637.589966	637.590027	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.7976656	7.7976656 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.779999971	0.779999971 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-87.9000244	-87.9000015 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.18 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	600.099976	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	146.100006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.10000038	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4004004657	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.66000006e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000679999997	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	400.5	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	156	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	42.2999992	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39056	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4211268631	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	274107514	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000615000026	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000809999998	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	600.299988	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146.600006	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.30000019	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.5999985	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	219286216	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.09999996e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000679999997		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	444.037994		
VehDyn_MinOffset_HwDeg_M_f32	-1338.89404		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000265999988		
VehDyn_SLPHwAuth_Uls_M_f32	0.762000024		
VehDyn_SLPHwPos_HwDeg_M_f32	-1435.25		
k_HiSpdVDAuthority_Uls_f32	0.676999986		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	42.5		
k_TravelXCDeadband_Uls_f32	22.8500004		
k_TravelXCHwAuthority_Uls_f32	0.0337750018		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2075080192		
target_GetSystemTime_mS_u32_CurrentTime	3323480832		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1344.25		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	538.844971		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.30000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1350		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1988.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	3.20000005		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	357.269989		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005	2600.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3323480832	3323480832	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3323480832	3323480832	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005	2600.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	538.844971	538.844971	✔
VehDyn_MinOffset_HwDeg_M_f32	-1344.25	-1344.25	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.19802499	3.19802499 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.762000024	0.762000024 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1435.25	-1435.25 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.19 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.199997
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.199997
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.19999981
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	42.2000008
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.66999996e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000682000013
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	600
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	166.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.2999992
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	12
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.3999
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000655699987
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000812000013
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	200.600006
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.300003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.5999999
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.2999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.1399999e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000682000013
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	449.029999
VehDyn_MinOffset_HwDeg_M_f32	-1332.20996

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.0002669999996		
VehDyn_SLPHwAuth_Uls_M_f32	0.746999979		
VehDyn_SLPHwPos_HwDeg_M_f32	-1424.98999		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegHwDeg_f32	12.1000004		
k_TravelXCDeadband_Uls_f32	24.2900009		
k_TravelXCHwAuthority_Uls_f32	0.0350000001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	954802432		
target_GetSystemTime_mS_u32_CurrentTime	71426560		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1337.98999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	549.752014		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-7.5		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1350		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1991.54004		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-5.4000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	456.649994		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001	-2400.6001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	71426560	71426560	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.3999	2800.3999 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001	-2400.6001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	549.752014	549.752014	✔
VehDyn_MinOffset_HwDeg_M_f32	-1337.98999	-1337.98999	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.40068007	-5.40068007 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.746999979	0.746999979 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1424.98999	-1424.98999 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.20 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.299988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.300003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.2999992
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.3000002
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.68000008e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000684000028
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	200.100006
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	176
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	53.2999992
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	49475
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	38708
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	383750110
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000696400006
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000814000028
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	457.700012
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.600006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.7000008
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.6000004
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.17999984e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000684000028
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	454.022003
VehDyn_MinOffset_HwDeg_M_f32	-1325.526
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000268000003
VehDyn_SLPHwAuth_Uls_M_f32	0.731999993
VehDyn_SLPHwPos_HwDeg_M_f32	-1414.72998
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	53.0999985
k_TravelXCDeadband_Uls_f32	25.7299995
k_TravelXCHwAuthority_Uls_f32	0.0362249985
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2728878080
target_GetSystemTime_mS_u32_CurrentTime	2430672128
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1331.72998
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	560.658997
target_VehDyn_Per1_HwTorque_HwNm_f32.value	6.25
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	0
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2001.54004
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.5999999
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	258.880005

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2160073393	2160073393	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.5	1900.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2430672128	2430672128	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2430672128	2430672128	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.5	1900.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	454.022003	454.022003	✓
VehDyn_MinOffset_HwDeg_M_f32	669.810059	669.809998	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59967661	7.59967661 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.731999993	0.731999993 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1414.72998	-1414.72998 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.21 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	498.200012
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	176.199997
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.1999998
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	53.2000008
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	49475

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	38708
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.68999997e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.80005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000685999985
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	457
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	186.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	12.3000002
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.400024
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000737100025
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000815999985
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	498.600006
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	176.699997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.6000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.7000008
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	49475
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	38708
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	383750110
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.22000014e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.80005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000685999985
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	459.014008
VehDyn_MinOffset_HwDeg_M_f32	-1318.84204
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000269000011
VehDyn_SLPHwAuth_Uls_M_f32	0.717000008
VehDyn_SLPHwPos_HwDeg_M_f32	-1404.46997
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	86.3000031
k_TravelXCDeadband_Uls_f32	27.1700001
k_TravelXCHwAuthority_Uls_f32	0.0374500006
target_DtrmnElapsedTime_mS_u32_ElapsedTime	824746752
target_GetSystemTime_mS_u32_CurrentTime	2242866176
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1325.46997
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	571.565979
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.1500001
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1100.43994

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2013.41003		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.5		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	369.170013		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.59998	-1438.59998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.80005	-1900.80005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.400024	753.400024 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.59998	-1438.59998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.80005	-1900.80005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1441.84399	-1441.84399	✓
VehDyn_MinOffset_HwDeg_M_f32	-1318.84204	-1318.84204	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.49902284	1.49902284 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.717000008	0.717000008 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1404.46997	-1404.46997 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.22 (Repeat Count = 1)		
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	539.299988	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	186.300003	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.3000002	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.3000031	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43128	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.7000001e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000688	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	498	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	196	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53759		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	18715		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4290967295		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000777799985		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000818		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	539.700012		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	186.600006		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.6999998		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.5999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43128		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58869		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.26000008e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000688		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	464.006012		
VehDyn_MinOffset_HwDeg_M_f32	-1312.15796		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00026999999		
VehDyn_SLPHwAuth_Uls_M_f32	0.702000022		
VehDyn_SLPHwPos_HwDeg_M_f32	-1394.20996		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.800000012		
k_SysKinRatio_MtrDegpHwDeg_f32	96.5		
k_TravelXCDeadband_Uls_f32	28.6100006		
k_TravelXCHwAuthority_Uls_f32	0.038674999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	309385728		
target_GetSystemTime_mS_u32_CurrentTime	2269150976		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1319.20996		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	582.473022		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-7.11999989		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-900.450012		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1947.64001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.60000002		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	156.550003		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	582.473022	582.473022	✓
VehDyn_MinOffset_HwDeg_M_f32	-1319.20996	-1319.20996	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60149491	-1.60149491 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.800000012	0.800000012 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.23 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	580.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	196.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4290967295
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.709999999e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.0006900000015
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	539.299988
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	206
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	45.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1078320779
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000818500004
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.100006
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.0008200000016
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	580.119995		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	196.5		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.1199999		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.5		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53759		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	18715		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4290967295		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.59998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.30000003e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000690000015		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	468.997986		
VehDyn_MinOffset_HwDeg_M_f32	-1305.474		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000270999997		
VehDyn_SLPHwAuth_Uls_M_f32	0.686999977		
VehDyn_SLPHwPos_HwDeg_M_f32	-1383.94995		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.699999988		
k_SysKinRatio_MtrDegpHwDeg_f32	45.0999985		
k_TravelXCDeadband_Uls_f32	30.0499992		
k_TravelXCHwAuthority_Uls_f32	0.0399000011		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4164171008		
target_GetSystemTime_mS_u32_CurrentTime	3533260288		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1312.94995		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	593.380005		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8.02999973		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-900.450012		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-3200		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	135.550003		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.59998	-1988.59998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3533260288	3533260288	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.40002	1988.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.100006	456.100006 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.59998	-1988.59998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	593.380005	593.380005	✓
VehDyn_MinOffset_HwDeg_M_f32	-1312.94995	-1312.94995	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7981377	-14.7981377 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.686999977	0.686999977 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1383.94995	-1383.94995 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.24 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	621.299988	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	206.199997	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.20000005	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	45.2000008	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14442	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1078320779	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.09998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.72000011e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000691999972	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	580	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	216	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	78.0999985	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21364	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52716	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2138628886	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000859200023	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000821999973	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	621.5	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	206.210007	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.5	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	45.1199989	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1078320779	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.09998	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.33999997e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000691999972		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	473.98999		
VehDyn_MinOffset_HwDeg_M_f32	-1298.79004		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000272000005		
VehDyn_SLPHwAuth_Uls_M_f32	0.671999991		
VehDyn_SLPHwPos_HwDeg_M_f32	-1373.68994		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.400000006		
k_SysKinRatio_MtrDegpHwDeg_f32	78.0999985		
k_TravelXCDeadband_Uls_f32	31.4899998		
k_TravelXCHwAuthority_Uls_f32	0.0411249995		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	437658624		
target_GetSystemTime_mS_u32_CurrentTime	812314880		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1306.68994		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	604.286987		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8.93999958		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	800.849976		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	3200		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-7.30000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	354.140015		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1078320779	1078320779	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.09998	1988.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994	456.399994 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	812314880	812314880	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	812314880	812314880	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.09998	1988.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994	456.399994 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	-2595.71289	-2595.71289	✔
VehDyn_MinOffset_HwDeg_M_f32	-1298.79004	-1298.79004	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7926998	17.7927017 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.400000006	0.400000006 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.25 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	662.200012
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	216.300003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.30000019
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	78.3000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.73000001e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000693999988
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	621.299988
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	226.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.30000019
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000899899984
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.099976
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000823999988
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	662.210022
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	216.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.19999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	78.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.37999991e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000693999988
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	478.981995
VehDyn_MinOffset_HwDeg_M_f32	-1292.10596

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000273000012		
VehDyn_SLPHwAuth_Uls_M_f32	0.657000005		
VehDyn_SLPHwPos_HwDeg_M_f32	-1363.43005		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.779999971		
k_SysKinRatio_MtrDegpHwDeg_f32	96.3000031		
k_TravelXCDeadband_Uls_f32	32.9300003		
k_TravelXCHwAuthority_Uls_f32	0.0423500016		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3941357312		
target_GetSystemTime_mS_u32_CurrentTime	3437401088		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1300.43005		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	615.19397		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-418.450012		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	0		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	126.401001		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.59998	1991.59998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3437401088	3437401088	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.30005	-2000.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.099976	-753.099976 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.59998	1991.59998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnM_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnM_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	478.981995	478.981995	✔
VehDyn_MinOffset_HwDeg_M_f32	-1292.10596	-1292.10596	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.99917746	-6.99917746 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.657000005	0.657000005 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1363.43005	-1363.43005 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.26 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	124.300003
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	226.300003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.30000019
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.3000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.73999999e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.599976
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000696000003
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	662.099976
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	236
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.30000019
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.2999992
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000940600003
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.299988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000826000003
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.199997
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	226.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.19999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.41999985e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.599976
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000696000003
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	483.973999
VehDyn_MinOffset_HwDeg_M_f32	-1285.422
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000273999991
VehDyn_SLPHwAuth_Uls_M_f32	0.64200002
VehDyn_SLPHwPos_HwDeg_M_f32	-1353.17004
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0.870000005
k_SysKinRatio_MtrDegpHwDeg_f32	32.5
k_TravelXCDeadband_Uls_f32	34.3699989
k_TravelXCHwAuthority_Uls_f32	0.043575
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3304439296
target_GetSystemTime_mS_u32_CurrentTime	3494315776
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1294.17004
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	626.101013
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.51000023
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-425.213989
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1440.88
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	354.769989

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998	-2000.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.599976	-753.599976 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005	1900.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.299988	456.299988 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998	-2000.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.599976	-753.599976 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	626.101013	626.101013	✓
VehDyn_MinOffset_HwDeg_M_f32	-1294.17004	-1294.17004	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.3003788	6.3003788 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.870000005	0.870000005 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.27 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	138.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	236.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.10000038
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21335

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.75000002e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.799988
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000698000018
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	246.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	52
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	29076
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	43868
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000981300022
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000828000018
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	138.100006
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	236.199997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.10000038
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.2099991
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.46000015e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.799988
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000698000018
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	488.966003
VehDyn_MinOffset_HwDeg_M_f32	-1278.73804
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000274999999
VehDyn_SLPHwAuth_Uls_M_f32	0.626999974
VehDyn_SLPHwPos_HwDeg_M_f32	-1342.91003
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	0.200000003
k_SysKinRatio_MtrDegHwDeg_f32	52.0999985
k_TravelXCDeadband_Uls_f32	35.8100014
k_TravelXCHwAuthority_Uls_f32	0.0447999984
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2167769344
target_GetSystemTime_mS_u32_CurrentTime	463842816
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1287.91003
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	637.007996
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.55000019
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	752.820007

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1200.56006		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	452.869995		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.59998	1900.59998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.799988	456.799988 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002	-1482.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.59998	1900.59998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.799988	456.799988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	637.007996	637.007996	✓
VehDyn_MinOffset_HwDeg_M_f32	-1287.91003	-1287.91003	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1978722	15.1978722 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.626999974	0.626999974 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1342.91003	-1342.91003 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.28 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	86
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	246
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	29076
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	43868
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.80005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.75999992e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.90002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000699999975
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	138
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	84.5

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	12.1000004		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	72		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	32821		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	53946		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00102199998		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.09998		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000829999975		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	86.1999969		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	246.100006		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.1999998		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.0999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	29076		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	43868		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.80005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.50000009e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.90002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000699999975		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	493.958008		
VehDyn_MinOffset_HwDeg_M_f32	-1272.05396		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000276000006		
VehDyn_SLPHwAuth_Uls_M_f32	0.611999989		
VehDyn_SLPHwPos_HwDeg_M_f32	-1332.65002		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.649999976		
k_SysKinRatio_MtrDegpHwDeg_f32	1		
k_TravelXCDeadband_Uls_f32	37.25		
k_TravelXCHwAuthority_Uls_f32	0.0460250005		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3714197504		
target_GetSystemTime_mS_u32_CurrentTime	1759885568		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1281.65002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	647.914978		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.59000015		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-158.410004		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1950.13		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	423.23999		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.80005	-1900.80005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.90002	-1482.90002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.09998	1900.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.80005	-1900.80005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.90002	-1482.90002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1302.21509	-1302.21497	✓
VehDyn_MinOffset_HwDeg_M_f32	-1272.05396	-1272.05396	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.9968786	13.9968786 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.649999976	0.649999976 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.29 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	44.2999992
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	84.3000031
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.3000002
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	72.3000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.90002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.77000004e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.80005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00070199999
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86.3000031
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	64
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	92.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106269994
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000831999991
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	44.4000015		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	84.5		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.3999996		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	72.5		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	32821		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	53946		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.90002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.54000003e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.80005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00070199999		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	498.950012		
VehDyn_MinOffset_HwDeg_M_f32	-1265.37		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89999962		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000277000014		
VehDyn_SLPHwAuth_Uls_M_f32	0.597000003		
VehDyn_SLPHwPos_HwDeg_M_f32	-1322.39001		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.779999971		
k_SysKinRatio_MtrDegpHwDeg_f32	100		
k_TravelXCDeadband_Uls_f32	38.6899986		
k_TravelXCHwAuthority_Uls_f32	0.0472499989		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3323480832		
target_GetSystemTime_mS_u32_CurrentTime	1662097408		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1275.39001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	658.822021		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.63000011		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	753.549988		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1885.40002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.89999998		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	62.8899994		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.90002	-1482.90002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.80005	1900.80005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.40002	-1900.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.90002	-1482.90002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.80005	1900.80005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1226.578	-1226.578	✓
VehDyn_MinOffset_HwDeg_M_f32	-1265.37	-1265.37	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89964294	8.89964294 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.597000003	0.597000003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1322.39001	-1322.39001 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.30 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	96.4000015	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	64.4000015	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3999996	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	92.4000015	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	40437	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	13059	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.77999993e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.90002	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000704000005	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	44	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	52.0999985	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	10.3999996	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2291	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58929	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3382212733	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.5	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00110340002	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.36011	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000834000006	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	96.1999969	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	64.4000015	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.5	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	92.4000015	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	40437	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	13059	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.57999998e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.90002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000704000005		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	503.941986		
VehDyn_MinOffset_HwDeg_M_f32	-1258.68604		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8999996		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000277999992		
VehDyn_SLPHwAuth_Uls_M_f32	0.582000017		
VehDyn_SLPHwPos_HwDeg_M_f32	-1312.13		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.879999995		
k_SysKinRatio_MtrDegpHwDeg_f32	50.2999992		
k_TravelXCDeadband_Uls_f32	40.1300011		
k_TravelXCHwAuthority_Uls_f32	0.048475001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	71426560		
target_GetSystemTime_mS_u32_CurrentTime	2127166208		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1269.13		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	669.729004		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.67000008		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	159.360001		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1887.65002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.19999981		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	123.330002		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988	-753.799988 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.90002	-1900.90002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.5	456.5 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.36011	2600.36011 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988	-753.799988 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.90002	-1900.90002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	669.729004	669.729004	✔
VehDyn_MinOffset_HwDeg_M_f32	-1269.13	-1269.13	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8983126	13.8983135 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.879999995	0.879999995 ± 0.004	

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	13.25	13.25 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.31 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	100.099998
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	10.1000004
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.899994
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.79000005e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.80005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000706000021
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	96.3000031
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	34.0999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	20.5
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00114409998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000836000021
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	100.400002
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	52.5400009
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.5
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	10.1999998
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.899994
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.61999992e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.80005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000706000021
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	508.93399
VehDyn_MinOffset_HwDeg_M_f32	-1252.00195

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Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000279		
VehDyn_SLPHwAuth_Uls_M_f32	0.566999972		
VehDyn_SLPHwPos_HwDeg_M_f32	-1301.87		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.99000001		
k_SysKinRatio_MtrDegpHwDeg_f32	10.1000004		
k_TravelXCDeadband_Uls_f32	41.5699997		
k_TravelXCHwAuthority_Uls_f32	0.049699994		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2430672128		
target_GetSystemTime_mS_u32_CurrentTime	4243378688		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRdpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRdpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1262.87		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	680.635986		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.71000004		
target_VehDyn_Per1_MotorVelCRF_MtrRdpS_f32.value	1100.40002		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1753.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.39999962		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	56.75		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.899994	456.899994 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.80005	2600.80005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995	-2500.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.899994	456.899994 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.80005	2600.80005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	680.635986	680.635986	✔
VehDyn_MinOffset_HwDeg_M_f32	-1262.87	-1262.87	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7928352	-18.7928352 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.566999972	0.566999972 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1301.87	-1301.87 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.32 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	124.300003
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	34.2999992
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.2999992
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	20.2999992
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.80005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.79999995e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000707999978
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	100.099998
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	18.3999996
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.5999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	30.6000004
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000508000026
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000837999978
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.099998
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	34.7999992
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.7999992
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	20.7999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.80005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.65999986e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000707999978
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	513.926025
VehDyn_MinOffset_HwDeg_M_f32	-1245.31799
VehDyn_PinTrqSV_M_str.SV_Uls_f32	18.7999992
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000280000007
VehDyn_SLPHwAuth_Uls_M_f32	0.551999986
VehDyn_SLPHwPos_HwDeg_M_f32	-1291.60999
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0.899999976
k_SysKinRatio_MtrDegpHwDeg_f32	25.1000004
k_TravelXCDeadband_Uls_f32	43.0099983
k_TravelXCHwAuthority_Uls_f32	0.0509250015
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2242866176
target_GetSystemTime_mS_u32_CurrentTime	1050692864
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1256.60999
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	691.54303
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1235.41003
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	935.01001
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	42.4500008

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.80005	-2500.80005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5	2600.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.80005	-2500.80005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-243.46698	-243.466995	✓
VehDyn_MinOffset_HwDeg_M_f32	-1245.31799	-1245.31799	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	18.7942295	18.7942314 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.899999976	0.899999976 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.33 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	78.8000031
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	216.800003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	1.79999995
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	88.8000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1078320779
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.900024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.81000007e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000709999993
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	88.0999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	40.2999992
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000509999983
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000839999993
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	78.8000031
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	216.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	88.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1078320779
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	383750110
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.900024
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.70000016e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000709999993
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	518.91803
VehDyn_MinOffset_HwDeg_M_f32	-1238.63403
VehDyn_PinTrqSV_M_str.SV_Uls_f32	0
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000280999986
VehDyn_SLPHwAuth_Uls_M_f32	0.537
VehDyn_SLPHwPos_HwDeg_M_f32	-1281.34998
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	0.100000001
k_SysKinRatio_MtrDegpHwDeg_f32	86.3000031
k_TravelXCDeadband_Uls_f32	44.4500008
k_TravelXCHwAuthority_Uls_f32	0.0521499999
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2269150976
target_GetSystemTime_mS_u32_CurrentTime	3039943680
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1250.34998
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	702.450012
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.20000005
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154.25

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VehDyn_Per1

Name	Input Value	Expected Value	Result
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-888.799988		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	52.9799995		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.900024	-753.900024 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3039943680	3039943680	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.900024	-753.900024 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	518.91803	518.91803	✓
VehDyn_MinOffset_HwDeg_M_f32	-361.549988	-361.549988	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-0.000599965919	-0.000599965977 ± 0.0000000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.537	0.537 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1281.34998	-1281.34998 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.34 (Repeat Count = 1)		
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	88.5	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	226.5	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.5	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.5	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.799988	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.819999996e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000712000008	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	78.4000015	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	76	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.10000002		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	50.1399994		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39056		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4211268631		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	109643620		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000511999999		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000842000009		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	88.5		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	226.800003		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.5		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	75.8000031		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	20423		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31368		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.799988		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.7400001e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000712000008		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	523.909973		
VehDyn_MinOffset_HwDeg_M_f32	-1231.94995		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000281999994		
VehDyn_SLPHwAuth_Uls_M_f32	0.522000015		
VehDyn_SLPHwPos_HwDeg_M_f32	-1271.08997		
k_HiSpdVDAuthority_Uls_f32	0.99000001		
k_LoSpdVDAuthority_Uls_f32	0.200000003		
k_SysKinRatio_MtrDegpHwDeg_f32	56.5		
k_TravelXCDeadband_Uls_f32	45.8899994		
k_TravelXCHwAuthority_Uls_f32	0.0533749983		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3533260288		
target_GetSystemTime_mS_u32_CurrentTime	1316564736		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1244.08997		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	713.356995		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.4000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.539978		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	425.5		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	128.880005		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.799988	456.799988 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	109643620	109643620	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.799988	456.799988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	713.356995	713.356995	✓
VehDyn_MinOffset_HwDeg_M_f32	-1244.08997	-1244.08997	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14.4951944	14.4951944 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.200000003	0.200000003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.35 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	94.0999985
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	236.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	97.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.8999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.83000008e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000714000023
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	88.3000031
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	86.5400009
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.5999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	60.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	164464918
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000514000014
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000844000024
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	94.0999985		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	236.699997		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	97.6999969		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.8999		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.78000004e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000714000023		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	528.901978		
VehDyn_MinOffset_HwDeg_M_f32	-1225.26599		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-12.6000004		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000283000001		
VehDyn_SLPHwAuth_Uls_M_f32	0.507000029		
VehDyn_SLPHwPos_HwDeg_M_f32	-1260.82996		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.300000012		
k_SysKinRatio_MtrDegpHwDeg_f32	54.0999985		
k_TravelXCDeadband_Uls_f32	47.3300018		
k_TravelXCHwAuthority_Uls_f32	0.0546000004		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	812314880		
target_GetSystemTime_mS_u32_CurrentTime	2075080192		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1237.82996		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	724.263977		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.5999999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253.44995		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2000.19995		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	139.119995		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.8999	-2500.8999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.40002	-1988.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.8999	-2500.8999 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	724.263977	724.263977	✓
VehDyn_MinOffset_HwDeg_M_f32	-1237.82996	-1237.82996	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-12.5971298	-12.5971289 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.507000029	0.507000029 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1260.82996	-1260.82996 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.36 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	126.599998	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	246.600006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.5999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.5999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25532	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27401	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.80005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.83999998e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.200012	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00071599998	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	94.5	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96.4499969	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	13.1000004	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	70.4000015	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	49475	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	38708	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	219286216	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000515999971	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.09998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000845999981	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	126.699997	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	246.300003	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.69999981	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.3000031	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	25532	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27401	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.80005	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.81999998e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.200012		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00071599998		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	533.893982		
VehDyn_MinOffset_HwDeg_M_f32	-1218.58203		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51000006e-006		
VehDyn_SLPHwAuth_Uls_M_f32	0.492000014		
VehDyn_SLPHwPos_HwDeg_M_f32	-1250.56995		
k_HiSpdVDAuthority_Uls_f32	0.779999971		
k_LoSpdVDAuthority_Uls_f32	0.400000006		
k_SysKinRatio_MtrDegpHwDeg_f32	85.0999985		
k_TravelXCDeadband_Uls_f32	48.7700005		
k_TravelXCHwAuthority_Uls_f32	0.0558249988		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3345084416		
target_GetSystemTime_mS_u32_CurrentTime	954802432		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1231.56995		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	735.171021		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.79999995		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.458008		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1900.90002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	3.20000005		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	387.450012		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.80005	2600.80005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	954802432	954802432	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.09998	1988.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	954802432	954802432	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.80005	2600.80005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	-1165.729	-1165.729	✔
VehDyn_MinOffset_HwDeg_M_f32	-1218.58203	-1218.58203	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79997349	7.79997349 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.400000006	0.400000006 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1444.69995	1444.69995 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.37 (Repeat Count = 1) ✓

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	124.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	123.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	42.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.8999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.8500001e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000717999996
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	126.300003
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	106.099998
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	19
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	80.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000517999986
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000847999996
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.099998
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	123.099998
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.3000002
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.2999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.8999
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.85999992e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.3999
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000717999996
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	538.885986
VehDyn_MinOffset_HwDeg_M_f32	-1211.89795

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Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00125584798		
VehDyn_SLPHwAuth_Uls_M_f32	0.476999998		
VehDyn_SLPHwPos_HwDeg_M_f32	-1240.31006		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.5		
k_SysKinRatio_MtrDegpHwDeg_f32	96.3000031		
k_TravelXCDeadband_Uls_f32	50.2099991		
k_TravelXCHwAuthority_Uls_f32	0.0570500009		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2704864000		
target_GetSystemTime_mS_u32_CurrentTime	2728878080		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1225.31006		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	746.078003		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456.779999		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1900.40002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-5.4000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	398.640015		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.8999	-2400.8999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.3999	-2500.3999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.8999	-2400.8999 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.3999	-2500.3999 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	538.885986	538.885986	✔
VehDyn_MinOffset_HwDeg_M_f32	675.089966	675.090027	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.19214344	3.19214344 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.476999998	0.476999998 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1240.31006	-1240.31006 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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Test Step 2.38 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	63.2000008
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	124.199997
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.2000008
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.1999969
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	8366
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	51002
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.86e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000720000011
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	128.100006
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	147
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	15
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000520000001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000850000011
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	63.2999992
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	124.300003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	8366
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	51002
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.89999987e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000720000011
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	543.877991
VehDyn_MinOffset_HwDeg_M_f32	-1205.21399
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8999996
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000281999994
VehDyn_SLPHwAuth_Uls_M_f32	0.462000012
VehDyn_SLPHwPos_HwDeg_M_f32	-1230.05005
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0.600000024
k_SysKinRatio_MtrDegpHwDeg_f32	86.5
k_TravelXCDeadband_Uls_f32	51.6500015
k_TravelXCHwAuthority_Uls_f32	0.0582749993
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4129141760
target_GetSystemTime_mS_u32_CurrentTime	4164171008
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1219.05005
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	756.984985
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.20000005
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	753.5
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1991.69995
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.39999962
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	36.4519997

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	756.984985	756.984985	✓
VehDyn_MinOffset_HwDeg_M_f32	-1219.05005	-1219.05005	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8951502	13.8951502 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.600000024	0.600000024 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-808.800049	-808.799988 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.39 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	456.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	125.099998
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.1000004
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	34738

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VehDyn_Per1

Name	Input Value

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VehDyn_Per1

Name	Input Value	Expected Value	Result
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1482.30005		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	489.523987		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.5	2600.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988	1988 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.5	2600.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	767.892029	767.892029	✓
VehDyn_MinOffset_HwDeg_M_f32	-1212.79004	-1212.79004	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.39919949	-5.39919901 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.699999988	0.699999988 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.40 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	566.299988	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	32.2999992	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.2999992	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	53.2999992	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	37799	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	41632	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.09998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.88000001e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000723999983	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	700		
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	189		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	22.1000004		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	13352		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	14442		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1078320779		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	383750110		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000523999974		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000853999984		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	566.799988		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	32.7999992		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.7999992		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.5999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	37799		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	41632		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.98000011e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000723999983		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	553.862		
VehDyn_MinOffset_HwDeg_M_f32	-1191.84595		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000358999998		
VehDyn_SLPHwAuth_Uls_M_f32	0.432000011		
VehDyn_SLPHwPos_HwDeg_M_f32	-1209.53003		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.800000012		
k_SysKinRatio_MtrDegpHwDeg_f32	52.0999985		
k_TravelXCDeadband_Uls_f32	54.5299988		
k_TravelXCHwAuthority_Uls_f32	0.0607249998		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2303132928		
target_GetSystemTime_mS_u32_CurrentTime	309385728		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1206.53003		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	778.799011		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1299.59998		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.400024		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.5		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	500.024994		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	553.862	553.862	✓
VehDyn_MinOffset_HwDeg_M_f32	-453.130005	-453.130005	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59979486	7.59979486 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.432000011	0.432000011 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1209.53003	-1209.53003 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.41 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	63.4000015
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	124.400002
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.3999996
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.4000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	8366
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	51002
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.88999991e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000725999998
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	350.600006
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	147
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	15
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000525999998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000855999999
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	63.0999985		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	124.199997		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.2000008		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.3000031		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	8366		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	51002		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.02000005e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000725999998		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	558.854004		
VehDyn_MinOffset_HwDeg_M_f32	-1185.16199		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.0003600000005		
VehDyn_SLPHwAuth_Uls_M_f32	0.416999996		
VehDyn_SLPHwPos_HwDeg_M_f32	-1199.27002		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.899999976		
k_SysKinRatio_MtrDegpHwDeg_f32	41.2999992		
k_TravelXCDeadband_Uls_f32	55.9700012		
k_TravelXCHwAuthority_Uls_f32	0.0619499981		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4129141760		
target_GetSystemTime_mS_u32_CurrentTime	4164171008		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1200.27002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	789.705994		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.01000023		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-147.100006		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	456.700012		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.60000002		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	499.089996		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999	2800.3999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999	2800.3999 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	333.005981	333.006012	✓
VehDyn_MinOffset_HwDeg_M_f32	-1185.16199	-1185.16199	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5019697	1.5019697 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.899999976	0.899999976 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.42 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	10.1999998	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	84.1999969	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.19999981	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.1999969	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	3658	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	5853	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4211268631	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.09998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.90000003e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000728000014	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124.199997	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	0	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	9.10000038	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	42.5	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	33198	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	7778	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2345892861	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000528000004	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000858000014	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	10.1000004	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	84.0999985	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.5	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.0999985	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	3658	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	5853	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.05999999e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000728000014		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	563.846008		
VehDyn_MinOffset_HwDeg_M_f32	-1178.47803		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000361000013		
VehDyn_SLPHwAuth_Uls_M_f32	0.40200001		
VehDyn_SLPHwPos_HwDeg_M_f32	-1189.01001		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	63.5		
k_TravelXCDeadband_Uls_f32	57.4099998		
k_TravelXCHwAuthority_Uls_f32	0.0631750003		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2836768512		
target_GetSystemTime_mS_u32_CurrentTime	437658624		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1194.01001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	800.612976		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.01999998		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	88.8000031		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500.5		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.59999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	120.339996		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	437658624	437658624	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2797.40112	2797.40112 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	800.612976	800.612976	✔
VehDyn_MinOffset_HwDeg_M_f32	-1194.01001	-1194.01001	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.59686208	-1.59686208 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.40200001	0.40200001 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1189.01001	-1189.01001 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.43 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	56.0999985	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	64.0999985	
VehDyn_AutoCntrDetSpd_M_str.FillPinTrq-11P		

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VehDyn_Per1

Name	Input Value		
VehDyn_MinOffset_HwDeg_M_f32	-1171.79395		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000361999992		
VehDyn_SLPHwAuth_Uls_M_f32	0.386999995		
VehDyn_SLPHwPos_HwDeg_M_f32	-1178.75		
k_HiSpdVDAuthority_Uls_f32	0.999000013		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	88.0999985		
k_TravelXCDeadband_Uls_f32	58.8499985		
k_TravelXCHwAuthority_Uls_f32	0.0644000024		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2478427648		
target_GetSystemTime_mS_u32_CurrentTime	3941357312		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1187.75		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	811.52002		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.03000021		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-75.9000015		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2600.6001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-7.30000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230.820007		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024	753.400024 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.30005	1885.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024	753.400024 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	811.52002	811.52002	✔
VehDyn_MinOffset_HwDeg_M_f32	-1187.75	-1187.75	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7921276	-14.7921276 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.386999995	0.386999995 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1178.75	-1178.75 ± 0.1	✔

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VehDyn_Per1

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.44 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	86.3000031
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.2999992
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.2999992
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	78.3000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.92000004e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000731999986
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	566.099976
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	125.230003
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	11.3999996
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	62.5
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000531999976
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.539993
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000861999986
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	86.3000031
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	52.5999985
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.2999992
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	6
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.13999987e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000731999986
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	573.830017
VehDyn_MinOffset_HwDeg_M_f32	-1165.10999
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000362999999

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.372000009		
VehDyn_SLPHwPos_HwDeg_M_f32	-1168.48999		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	75.0999985		
k_TravelXCDeadband_Uls_f32	60.2900009		
k_TravelXCHwAuthority_Uls_f32	0.065624997		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4180236544		
target_GetSystemTime_mS_u32_CurrentTime	3304439296		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1181.48999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	822.427002		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.03999996		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-900.01001		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400.3999		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	245.080002		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.09998	1991.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.19995	1950.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.539993	142.539993 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.09998	1991.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	573.830017	573.830017	✔
VehDyn_MinOffset_HwDeg_M_f32	1218.90991	1218.91003	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7960987	17.7961006 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.372000009	0.372000009 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1168.48999	-1168.48999 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.45 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	75.1999969
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	34.2000008
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.1999998
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.1999969
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.92999994e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000734000001
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	425.200012
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	84.1100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	0
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	72.3000031
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	26195
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22037
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000533999992
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.25
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000864000001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	75.5999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	34.2999992
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.6000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.3000031
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.18000018e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000734000001
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	578.822021
VehDyn_MinOffset_HwDeg_M_f32	-1158.42603
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000364000007
VehDyn_SLPHwAuth_Uls_M_f32	0.356999993
VehDyn_SLPHwPos_HwDeg_M_f32	-1158.22998
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	97.3000031
k_TravelXCDeadband_Uls_f32	61.7299995
k_TravelXCHwAuthority_Uls_f32	0.0668499991
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3368466432
target_GetSystemTime_mS_u32_CurrentTime	2167769344
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1175.22998
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	833.333984
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.05000019
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	800.799988
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2800.30005
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	10.1409998

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.19995	-2000.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.5	1885.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.25	2600.25 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.19995	-2000.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1966.96606	-1966.96594	✓
VehDyn_MinOffset_HwDeg_M_f32	-1158.42603	-1158.42603	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.99486494	-6.99486494 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.356999993	0.356999993 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1158.22998	-1158.22998 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.46 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	98.0999985
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	18.1000004
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	2291

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.94000006e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000736000016
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	10
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	64.6999969
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	20
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	82.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43190
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	142.199997
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000536000007
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.36011
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000866000017
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	98.5999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	18.6000004
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.6000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.5999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.22000012e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000736000016
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	583.814026
VehDyn_MinOffset_HwDeg_M_f32	-1151.74194
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000365000014
VehDyn_SLPHwAuth_Uls_M_f32	0.342000008
VehDyn_SLPHwPos_HwDeg_M_f32	-1147.96997
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	86.5
k_TravelXCDeadband_Uls_f32	63.1699982
k_TravelXCHwAuthority_Uls_f32	0.0680750012
target_DtrmnElapsedTime_mS_u32_ElapsedTime	170564352
target_GetSystemTime_mS_u32_CurrentTime	3714197504
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1168.96997
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	844.241028
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.01000023
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-418.170013

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1438.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	20.8789997		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.09998	1900.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.09998	1991.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	142.199997	142.199997 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.36011	-2400.36011 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024	1024	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.09998	1900.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.09998	1991.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	844.241028	844.241028	✓
VehDyn_MinOffset_HwDeg_M_f32	-1168.96997	-1168.96997	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.29439259	6.29439259 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.342000008	0.342000008 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1147.96997	-1147.96997 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.47 (Repeat Count = 1)	Name	Input Value
	DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
	GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
	Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
	VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
	VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	66.1999969
	VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	88.1999969
	VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.1999998
	VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.2000008
	VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	38868
	VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	57944
	VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322
	VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.40002
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.94999995e-006
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.19995
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000737999973
	VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
	VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
	VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
	VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
	VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	56.2000008
	VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	52

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	92		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	30404		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	30349		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3382212733		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000538000022		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.6001		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000867999974		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	66.5999985		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	88.4000015		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.6000004		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.4000015		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	38868		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	57944		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.40002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.26000006e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000737999973		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	588.80603		
VehDyn_MinOffset_HwDeg_M_f32	-1145.05798		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000365999993		
VehDyn_SLPHwAuth_Uls_M_f32	0.326999992		
VehDyn_SLPHwPos_HwDeg_M_f32	-1137.70996		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	42.0999985		
k_TravelXCDeadband_Uls_f32	64.6100006		
k_TravelXCHwAuthority_Uls_f32	0.0693000033		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	625668608		
target_GetSystemTime_mS_u32_CurrentTime	2894938880		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1162.70996		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	855.14801		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.09000015		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-425.869995		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	753.330017		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	25.5499992		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.40002	-1900.40002 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.19995	-2000.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2894938880	2894938880	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.6001	2800.6001 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2894938880	2894938880	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.40002	-1900.40002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.19995	-2000.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	855.14801	855.14801	✓
VehDyn_MinOffset_HwDeg_M_f32	-1162.70996	-1162.70996	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1910667	15.1910677 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.326999992	0.326999992 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1137.70996	-1137.70996 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.48 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	34.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	76.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	10.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	109643620
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.96000007e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000739999989
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	34.2000008
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.79999995
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	0
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	10412
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000539999979
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000869999989
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	34.4000015		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	76.5999985		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.4000001		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	10.6000004		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53970		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52282		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.3e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000739999989		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	593.797974		
VehDyn_MinOffset_HwDeg_M_f32	-1138.37402		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000367000001		
VehDyn_SLPHwAuth_Uls_M_f32	0.312000006		
VehDyn_SLPHwPos_HwDeg_M_f32	-1127.44995		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	12.1000004		
k_TravelXCDeadband_Uls_f32	66.0500031		
k_TravelXCHwAuthority_Uls_f32	0.070524998		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1711664384		
target_GetSystemTime_mS_u32_CurrentTime	2059598336		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1156.44995		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	866.054993		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.17000008		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	752.679993		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1988.69995		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.89999998		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	30.6399994		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	109643620	109643620	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.09998	1900.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2059598336	2059598336	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.40002	-1482.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620	109643620	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.09998	1900.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnM_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnM_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	593.797974	593.797974	✓
VehDyn_MinOffset_HwDeg_M_f32	832.25	832.25	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.9914389	13.9914389 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.312000006	0.312000006 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1127.44995	-1127.44995 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.49 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	2.0999999	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	86.0999985	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	25.1000004	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.400024	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.96999997e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000742000004	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	75.1999969	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	18	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.69999981	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	100	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16683	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22497	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000541999994	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000872000004	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	2.9000001	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.8000031	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.9000001	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	25.7999992	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.400024	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.33999994e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000742000004		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	598.789978		
VehDyn_MinOffset_HwDeg_M_f32	-1131.68994		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89999962		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000368000008		
VehDyn_SLPHwAuth_Uls_M_f32	0.296999991		
VehDyn_SLPHwPos_HwDeg_M_f32	-1117.18994		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	53.2999992		
k_TravelXCDeadband_Uls_f32	67.4899979		
k_TravelXCHwAuthority_Uls_f32	0.0717500001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1568734208		
target_GetSystemTime_mS_u32_CurrentTime	800969984		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1150.18994		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	876.961975		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.25		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-158.710007		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1988.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.19999981		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	35.8199997		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.400024	-753.400024 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005	-1900.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	800969984	800969984	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024	753.400024 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	800969984	800969984	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.400024	-753.400024 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005	-1900.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	-1111.13794	-1111.13794	✔
VehDyn_MinOffset_HwDeg_M_f32	-1131.68994	-1131.68994	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.8933773	8.8933773 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0717500001	0.0717500001 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	856.410034	856.409973 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.50 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	120.199997
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	96.1999969
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.19999981
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.1999969
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.98000009e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000744000019
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	98
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	66.1999969
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	9.19999981
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	50.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00054400001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000874000019
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	120.800003
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	96.9000015
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.80000019
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.9000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.37999988e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000744000019
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	603.781982
VehDyn_MinOffset_HwDeg_M_f32	-1125.00598

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VehDyn_Per1

Name	Input Value
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8999996
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000368999987
VehDyn_SLPHwAuth_Uls_M_f32	0.282000005
VehDyn_SLPHwPos_HwDeg_M_f32	-1106.93005
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1

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VehDyn_Per1

Test Step 2.51 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	350.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	106.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	56.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.989999998e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000745999976
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	66.1999969
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	69
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	41
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	0
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	12258
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000546000025
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000875999976
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	350.899994
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	106.800003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.89999962
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	56.7999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.3999
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.41999982e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000745999976
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	608.773987
VehDyn_MinOffset_HwDeg_M_f32	-1118.32202
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000369999994
VehDyn_SLPHwAuth_Uls_M_f32	0.26699999
VehDyn_SLPHwPos_HwDeg_M_f32	-1096.67004
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	96.0999985
k_TravelXCDeadband_Uls_f32	70.3700027
k_TravelXCHwAuthority_Uls_f32	0.0741999969
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2339853824
target_GetSystemTime_mS_u32_CurrentTime	3351443200
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1137.67004
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	898.776001
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.40999985
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	159.139999
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2000.01001
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	38.6699982

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.3999	-2500.3999 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3351443200	3351443200	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002	1988.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3351443200	3351443200	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.3999	-2500.3999 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	898.776001	898.776001	✓
VehDyn_MinOffset_HwDeg_M_f32	-1137.67004	-1137.67004	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79365158	7.7936511 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0741999969	0.0741999969 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1101.23401	-1101.23401 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.52 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	400.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	116.099998
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	54.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53759

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.00000011e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000747999991
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	34
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	79.0999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	63
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	60000
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	26195
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000547999982
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000877999992
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	400.799988
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	116.900002
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.800002
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	54.9000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.46000013e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000747999991
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	613.765991
VehDyn_MinOffset_HwDeg_M_f32	-1111.63794
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000371000002
VehDyn_SLPHwAuth_Uls_M_f32	0.252000004
VehDyn_SLPHwPos_HwDeg_M_f32	-1086.41003
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegHwDeg_f32	45
k_TravelXCDeadband_Uls_f32	71.8099976
k_TravelXCHwAuthority_Uls_f32	0.075424999
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3524313344
target_GetSystemTime_mS_u32_CurrentTime	1358028288
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1131.41003
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	909.682983
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.48999977
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1100.64001

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1900.87		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	45.3699989		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5	2600.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994	456.399994 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1358028288	1358028288	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5	2600.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994	456.399994 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-991.187012	-991.187012	✓
VehDyn_MinOffset_HwDeg_M_f32	-1111.63794	-1111.63794	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.19533825	3.19533825 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.252000004	0.252000004 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1086.41003	-1086.41003 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.53 (Repeat Count = 1)		
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	600.200012	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	126.199997	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.1999998	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	85.1999969	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14442	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	383750110	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.01e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000750000007	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	2.0999999	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	199	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.20000005		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	88.1999969		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	30000		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	43128		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.100006		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000549999997		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000800000007		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	600.900024		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.800003		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.8999996		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	85.8000031		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	383750110		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.50000007e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000750000007		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	618.757996		
VehDyn_MinOffset_HwDeg_M_f32	-1104.95398		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00037200001		
VehDyn_SLPHwAuth_Uls_M_f32	0.237000003		
VehDyn_SLPHwPos_HwDeg_M_f32	-1076.15002		
k_HiSpdVDAuthority_Uls_f32	0.670000017		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	78.3000031		
k_TravelXCDeadband_Uls_f32	73.25		
k_TravelXCHwAuthority_Uls_f32	0.0766500011		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2108719104		
target_GetSystemTime_mS_u32_CurrentTime	1975593216		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1125.15002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	920.590027		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.56999969		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1235.5		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1900.90002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	456.179993		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1975593216	1975593216	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.100006	456.100006 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1975593216	1975593216	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	618.757996	618.757996	✓
VehDyn_MinOffset_HwDeg_M_f32	775.75	775.75	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.40158939	-5.40158939 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.237000003	0.237000003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1076.15002	-1076.15002 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.54 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.300003
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	136.300003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3000002
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.3000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.01999989e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000752000022
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	120
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	124
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	75.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	0
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	109643620
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000552000012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000882000022
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	200.800003		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.899994		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.8000002		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.9000015		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21364		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52716		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.54000001e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.3999		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000752000022		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-623.75		
VehDyn_MinOffset_HwDeg_M_f32	-1098.27002		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000372999988		
VehDyn_SLPHwAuth_Uls_M_f32	0.222000003		
VehDyn_SLPHwPos_HwDeg_M_f32	-1065.89001		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	96.5		
k_TravelXCDeadband_Uls_f32	74.6900024		
k_TravelXCHwAuthority_Uls_f32	0.0778750032		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2894938880		
target_GetSystemTime_mS_u32_CurrentTime	910116864		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1118.89001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	931.497009		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.64999962		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154.339996		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1482.40002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	45.5750008		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.3999	2600.3999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	910116864	910116864	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	109643620	109643620	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.3999	2600.3999 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnM_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnM_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	931.497009	931.497009	✓
VehDyn_MinOffset_HwDeg_M_f32	-1118.89001	-1118.89001	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.7935214	7.7935214 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.222000003	0.222000003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1065.89001	-1065.89001 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.55 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.100006	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	146.100006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	33198	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7778	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.40002	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.03000002e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000753999979	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	350	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	84.0999985	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.20000005	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	97	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	26195	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	60000	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4290967295	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	164464918	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.299988	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000554000027	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.59998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000883999979	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	457.600006	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146.100006	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.6000004	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.0999985	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	33198	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	7778	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.40002	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.57999995e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000753999979		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	628.742004		
VehDyn_MinOffset_HwDeg_M_f32	-1091.58606		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000373999996		
VehDyn_SLPHwAuth_Uls_M_f32	0.207000002		
VehDyn_SLPHwPos_HwDeg_M_f32	-1055.63		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	32		
k_TravelXCDeadband_Uls_f32	76.1299973		
k_TravelXCHwAuthority_Uls_f32	0.0790999979		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2059598336		
target_GetSystemTime_mS_u32_CurrentTime	402713344		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1112.63		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	942.403992		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.72999954		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.900024		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.299988		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	3.20000005		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	75.9100037		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005	-2400.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	402713344	402713344	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.59998	-1438.59998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	402713344	402713344	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005	-2400.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	942.403992	942.403992	✔
VehDyn_MinOffset_HwDeg_M_f32	-1112.63	-1112.63	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.19520164	3.19520164 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.207000002	0.207000002 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1055.63	-1055.63 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.56 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	498.799988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.800003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	3.79999995
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.7999992
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.599976
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.03999991e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000755999994
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	400.200012
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	64
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	30000
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1078320779
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	219286216
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000555999984
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.69995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000885999994
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	498.100006
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.600006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.0999999
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.5999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.599976
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.61999989e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000755999994
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	633.734009
VehDyn_MinOffset_HwDeg_M_f32	-1084.90198

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000375000003		
VehDyn_SLPHwAuth_Uls_M_f32	0.192000002		
VehDyn_SLPHwPos_HwDeg_M_f32	-1045.37		
k_HiSpdVDAuthority_Uls_f32	0.170000002		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	52.2999992		
k_TravelXCDeadband_Uls_f32	77.5699997		
k_TravelXCHwAuthority_Uls_f32	0.080325		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	800969984		
target_GetSystemTime_mS_u32_CurrentTime	4178051584		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1106.37		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	953.310974		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.81000042		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253.09998		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	456.700012		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-5.4000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	159.820007		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.599976	753.599976 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999	2800.3999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4178051584	4178051584	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.69995	1950.69995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.599976	753.599976 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999	2800.3999 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	496.610962	496.610992	✔
VehDyn_MinOffset_HwDeg_M_f32	-1084.90198	-1084.90198	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.40169239	-5.40169239 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.170000002	0.170000002 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1494	-1494 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.57 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	539.299988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.300003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.30000019
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	41.2999992
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.05000003e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000758000009
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	600
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	52.2000008
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	42
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	49475
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	38708
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000558
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.90002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00088800001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	539.599976
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.5999999
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.65999983e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000758000009
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	638.726013
VehDyn_MinOffset_HwDeg_M_f32	-1078.21802
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000376000011
VehDyn_SLPHwAuth_Uls_M_f32	0.177000001
VehDyn_SLPHwPos_HwDeg_M_f32	-1035.10999
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0.00899999961
k_SysKinRatio_MtrDegpHwDeg_f32	10.5
k_TravelXCDeadband_Uls_f32	79.0100021
k_TravelXCHwAuthority_Uls_f32	0.0815500021
target_DtrmnElapsedTime_mS_u32_ElapsedTime	569984000
target_GetSystemTime_mS_u32_CurrentTime	4077829376
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1100.10999
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	964.218018
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.89000034
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.700012
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500.1001
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.5999999
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	357.25

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4077829376	4077829376	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.90002	1885.90002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4077829376	4077829376	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	638.726013	638.726013	✓
VehDyn_MinOffset_HwDeg_M_f32	1399.99011	1399.98999	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59369564	7.59369612 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.00899999961	0.00899999961 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1061.80005	-1061.80005 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.58 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	580.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	176.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	9.10000038
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	34738

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36612
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.05999993e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000760000024
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	200.199997
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	34
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	12.1000004
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000560000015
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000890000025
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	580.200012
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	176.300003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	9.19999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	63.2999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	34738
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36612
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.70000014e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000760000024
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	643.718018
VehDyn_MinOffset_HwDeg_M_f32	-1071.53406
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000376999989
VehDyn_SLPHwAuth_Uls_M_f32	0.162
VehDyn_SLPHwPos_HwDeg_M_f32	-1024.84998
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	0.980000019
k_SysKinRatio_MtrDegpHwDeg_f32	25.1000004
k_TravelXCDeadband_Uls_f32	80.4499969
k_TravelXCHwAuthority_Uls_f32	0.0827749968
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3351443200
target_GetSystemTime_mS_u32_CurrentTime	2644937728
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1093.84998
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	975.125
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456.600006

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2600.69995		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.5		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	456.549988		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.59998	1988.59998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.5	753.5 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2644937728	2644937728	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.5	142.5 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.59998	1988.59998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.5	753.5 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	975.125	975.125	✓
VehDyn_MinOffset_HwDeg_M_f32	-1093.84998	-1093.84998	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.497949	1.497949 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.162	0.162 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1024.84998	-1024.84998 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.59 (Repeat Count = 1)		
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	621.799988	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	186.800003	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	7.80000019	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	88.8000031	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	26195	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22037	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.07000005e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.59998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000761999981	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	457	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	18.2000008	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.2000008		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	53		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53759		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	18715		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	383750110		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	0		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000561999972		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.40002		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000891999982		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	621.299988		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	186.199997		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.30000019		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	88.1999969		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.74000008e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.59998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000761999981		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	-648.710022		
VehDyn_MinOffset_HwDeg_M_f32	-1064.84998		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000377999997		
VehDyn_SLPHwAuth_Uls_M_f32	0.147		
VehDyn_SLPHwPos_HwDeg_M_f32	-1014.59003		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.75999999		
k_SysKinRatio_MtrDegpHwDeg_f32	86		
k_TravelXCDeadband_Uls_f32	81.8899994		
k_TravelXCHwAuthority_Uls_f32	0.0839999989		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1358028288		
target_GetSystemTime_mS_u32_CurrentTime	2212175616		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1087.58997		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	986.031982		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.57999992		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1199.19995		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400.5		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.60000002		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	258.200012		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.59998	-1988.59998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2212175616	2212175616	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	0	0 ± 0.000009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.40002	-1900.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2212175616	2212175616	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.59998	-1988.59998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	986.031982	986.031982	✓
VehDyn_MinOffset_HwDeg_M_f32	-1087.58997	-1087.58997	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60113347	-1.60113347 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.75999999	0.75999999 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-411.900024	-411.899994 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.60 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	662.900024
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	196.899994
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.9000001
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.9000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43190
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.07999994e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000763999997
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	498.200012
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	88
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4290967295
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1440.88
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000563999987
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000893999997
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	662.400024		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	196.5		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.4000001		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	75.5		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43190		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3186		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.78000002e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000763999997		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	653.702026		
VehDyn_MinOffset_HwDeg_M_f32	-1058.16602		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000379000005		
VehDyn_SLPHwAuth_Uls_M_f32	0.131999999		
VehDyn_SLPHwPos_HwDeg_M_f32	-1004.33002		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.467000008		
k_SysKinRatio_MtrDegpHwDeg_f32	56.2999992		
k_TravelXCDeadband_Uls_f32	83.3300018		
k_TravelXCHwAuthority_Uls_f32	0.085225001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1975593216		
target_GetSystemTime_mS_u32_CurrentTime	2059598336		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1081.32996		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	996.939026		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.15999985		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1299.5		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2800.6001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	369.100006		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001	-2400.6001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.5	1988.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2059598336	2059598336	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1440.88	1440.88 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001	-2400.6001 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.5	1988.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnM_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnM_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1803.66113	-1803.66101	✓
VehDyn_MinOffset_HwDeg_M_f32	-1058.16602	-1058.16602	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7963152	-14.7963152 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.131999999	0.131999999 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1004.33002	-1004.33002 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.61 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	124.099998	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	206.100006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	3.0999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	97.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	30404	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	30349	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.09000006e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000766000012	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	539	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	76.0999985	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21364	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52716	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1078320779	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1200.56006	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000566000002	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000896000012	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.5	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	206.399994	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.5	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	97.4000015	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	30404	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	30349	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.81999996e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000766000012		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	658.69397		
VehDyn_MinOffset_HwDeg_M_f32	-1051.48206		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000380000012		
VehDyn_SLPHwAuth_Uls_M_f32	0.116999999		
VehDyn_SLPHwPos_HwDeg_M_f32	-994.070007		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.870000005		
k_SysKinRatio_MtrDegpHwDeg_f32	54.5		
k_TravelXCDeadband_Uls_f32	84.7699966		
k_TravelXCHwAuthority_Uls_f32	0.0864500031		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	910116864		
target_GetSystemTime_mS_u32_CurrentTime	800969984		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1075.06995		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1007.84601		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.73999977		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-147.699997		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1438.30005		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-7.30000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	156.100006		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005	2800.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	800969984	800969984	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1200.56006	-1200.56006 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	800969984	800969984	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005	2800.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	658.69397	658.69397	✔
VehDyn_MinOffset_HwDeg_M_f32	363.230103	363.230011	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7910023	17.7910042 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.870000005	0.870000005 ± 0.004	

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.62 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	138.800003
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	216.800003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	1.79999995
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.8000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	10412
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.09999996e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000768000027
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	580.099976
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	86
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	45.2000008
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000898000028
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	138.699997
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	216.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.70000005
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	10412
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.8599999e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000768000027
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	663.685974
VehDyn_MinOffset_HwDeg_M_f32	-1044.79797

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000380999991		
VehDyn_SLPHwAuth_Uls_M_f32	0.101999998		
VehDyn_SLPHwPos_HwDeg_M_f32	-983.809998		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.566999972		
k_SysKinRatio_MtrDegpHwDeg_f32	85.0999985		
k_TravelXCDeadband_Uls_f32	86.2099991		
k_TravelXCHwAuthority_Uls_f32	0.0876749977		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	402713344		
target_GetSystemTime_mS_u32_CurrentTime	2659241984		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1068.81006		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1018.75299		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-6.32000017		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	88.5999985		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	753.109985		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	135.5		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.59998	-1438.59998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2659241984	2659241984	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.29443	-1482.29443 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.59998	-1438.59998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1018.75299	1018.75299	✔
VehDyn_MinOffset_HwDeg_M_f32	-1068.81006	-1068.81006	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.99973488	-6.99973488 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.101999998	0.101999998 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-983.809998	-983.809998 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓
GetSystemTime_mS_u32	2	GetSystemTime_mS_u32	2	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.63 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	86.9000015
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.899994
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.9000001
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	42.9000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	16683
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.11000008e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000769999984
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	621
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96.1999969
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.19999981
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	78
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125584798
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000899999985
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	86.0999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.699997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.0999999
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.7000008
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	16683
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.89999984e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000769999984
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	668.677979
VehDyn_MinOffset_HwDeg_M_f32	-1038.11401
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000381999998
VehDyn_SLPHwAuth_Uls_M_f32	0.0869999975
VehDyn_SLPHwPos_HwDeg_M_f32	-973.549988
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0.449999988
k_SysKinRatio_MtrDegHwDeg_f32	96
k_TravelXCDeadband_Uls_f32	87.6500015
k_TravelXCHwAuthority_Uls_f32	0.0888999999
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4178051584
target_GetSystemTime_mS_u32_CurrentTime	2942063360
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32

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VehDyn_Per1

Name	Input Value		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1062.55005		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1029.66003		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-6.9000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-75.5		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1988.69995		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	354.700012		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.30005	1950.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2942063360	2942063360	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2942063360	2942063360	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.30005	1950.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1029.66003	1029.66003	✔
VehDyn_MinOffset_HwDeg_M_f32	-1062.55005	-1062.55005	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.29498005	6.29498005 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.449999988	0.449999988 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✔

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.64 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	539.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	41.0999985

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.11999997e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000771999999
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	100
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	166.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	56.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000566000002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000902
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	539.119995
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.020004
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.11999989
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.0200005
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.94000014e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000771999999
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	-673.669983
VehDyn_MinOffset_HwDeg_M_f32	-1031.43005
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000383000006
VehDyn_SLPHwAuth_Uls_M_f32	0.0719999969
VehDyn_SLPHwPos_HwDeg_M_f32	-963.289978
k_HiSpdVDAuthority_Uls_f32	0.200000003
k_LoSpdVDAuthority_Uls_f32	0.370000005
k_SysKinRatio_MtrDegpHwDeg_f32	97.0999985
k_TravelXCDeadband_Uls_f32	89.0899963
k_TravelXCHwAuthority_Uls_f32	0.090125002
target_DtrmnElapsedTime_mS_u32_ElapsedTime	569984000
target_GetSystemTime_mS_u32_CurrentTime	4077829376
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1056.29004
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1040.56702
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-7.48000002

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.599976		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1885.40002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	56.5800018		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4077829376	4077829376	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.30005	-1753.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.30005	1885.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4077829376	4077829376	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-844.833008	-844.833008	✓
VehDyn_MinOffset_HwDeg_M_f32	-1031.43005	-1031.43005	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59424639	7.59424639 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.370000005	0.370000005 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.65 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	44.7999992
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.800003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.80000019
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.8000002
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.1300001e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000774000015
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	662.200012		
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	106.199997		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.1999969		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000561999972		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000904000015		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	44.0200005		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.119995		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.01999998		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.1199999		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.98000009e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000774000015		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	678.661987		
VehDyn_MinOffset_HwDeg_M_f32	-1024.74597		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000384000014		
VehDyn_SLPHwAuth_Uls_M_f32	0.057		
VehDyn_SLPHwPos_HwDeg_M_f32	-953.030029		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.870000005		
k_SysKinRatio_MtrDegpHwDeg_f32	32.2999992		
k_TravelXCDeadband_Uls_f32	90.5299988		
k_TravelXCHwAuthority_Uls_f32	0.0913499966		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4077829376		
target_GetSystemTime_mS_u32_CurrentTime	1117112832		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1050.03003		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1051.474		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8.06000042		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	159.100006		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1988.59998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	126.410004		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1117112832	1117112832	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5	148.5 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✓

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5	148.5 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-937.125977	-937.125977	✓
VehDyn_MinOffset_HwDeg_M_f32	-1024.74597	-1024.74597	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1910133	15.1910133 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0913499966	0.0913499966 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	963.854004	963.854004 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.66 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	96.1999969	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	176.199997	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.19999981	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	53.2000008	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	29076	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	43868	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.13999999e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.40002	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000775999972	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	116	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.0999985	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	29076	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	43868	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2760420810	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.09998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000563999987	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000905999972	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	96.5		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	176.100006		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.5		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.0999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	29076		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	43868		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.02000003e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.40002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000775999972		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	683.653992		
VehDyn_MinOffset_HwDeg_M_f32	-1018.06201		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000384999992		
VehDyn_SLPHwAuth_Uls_M_f32	0.0419999994		
VehDyn_SLPHwPos_HwDeg_M_f32	-942.77002		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.680000007		
k_SysKinRatio_MtrDegpHwDeg_f32	52.0999985		
k_TravelXCDeadband_Uls_f32	91.9700012		
k_TravelXCHwAuthority_Uls_f32	0.0925749987		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2644937728		
target_GetSystemTime_mS_u32_CurrentTime	1736795392		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1043.77002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1062.38098		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1100.5		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1991.14001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	354.450012		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024	1024	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.40002	1950.40002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1736795392	1736795392	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1736795392	1736795392	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.40002	1950.40002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1062.38098	1062.38098	✓
VehDyn_MinOffset_HwDeg_M_f32	-1043.77002	-1043.77002	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.993804	13.993804 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.680000007	0.680000007 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	40.7399902	40.7400017 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.67 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	100.099998	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	186.100006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	32821	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	53946	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.15000011e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000777999987	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	138.199997	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	126.199997	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	12	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	52.4000015	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	32821	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	53946	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000566000002	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	0	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000907999987	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	100.099998	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	186.5	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.5	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	32821	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	53946	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322	

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Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.05999997e-005		
VehDyn_AutoCntrLoSpd_m_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000777999987		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_m_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	688.645996		
VehDyn_MinOffset_HwDeg_M_f32	-1011.37799		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89999962		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000386		
VehDyn_SLPHwAuth_Uls_M_f32	0.0270000007		
VehDyn_SLPHwPos_HwDeg_M_f32	-932.51001		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.560000002		
k_SysKinRatio_MtrDegpHwDeg_f32	41.0999985		
k_TravelXCDeadband_Uls_f32	93.4100037		
k_TravelXCHwAuthority_Uls_f32	0.0938000008		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2212175616		
target_GetSystemTime_mS_u32_CurrentTime	3437401088		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1037.51001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1073.28796		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-6.01000023		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1235.59998		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400.19995		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.89999998		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	452.540009		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3437401088	3437401088	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.5	1885.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_m_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995	1885.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Inialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	0	0 ± 0.000009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_m_str.Filter2Inialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.5	1885.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995	1885.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_m_str.Filter2Inialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1073.28796	1073.28796	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_MinOffset_HwDeg_M_f32	-1037.51001	-1037.51001	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89422607	8.89422703 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0270000007	0.0270000007 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-932.51001	-932.51001 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.68 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	124.699997	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	196.699997	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.7000008	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.6999969	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	40437	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	13059	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	109643620	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.16000001e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.399994	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000780000002	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	136	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	10	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40437	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13059	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.100006	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000568000018	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1440.88	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000910000002	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.800003	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	196.100006	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.7999992	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.0999985	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	40437	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	13059	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.09999991e-005	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.399994	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000780000002	
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	
VehDyn_Initialize_Cnt_M_lgc	1	
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	
VehDyn_MaxOffset_HwDeg_M_f32	693.638	

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Name	Input Value		
VehDyn_MinOffset_HwDeg_M_f32	-1004.69397		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8999996		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000387000007		
VehDyn_SLPHwAuth_Uls_M_f32	0.0120000001		
VehDyn_SLPHwPos_HwDeg_M_f32	-922.25		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.76880002		
k_SysKinRatio_MtrDegpHwDeg_f32	63.2999992		
k_TravelXCDeadband_Uls_f32	94.8499985		
k_TravelXCHwAuthority_Uls_f32	0.095025003		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2059598336		
target_GetSystemTime_mS_u32_CurrentTime	3494315776		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1031.25		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1084.19495		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154.399994		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2800.6001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.19999981		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	423.450012		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	109643620	109643620	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995	-1887.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.399994	142.399994 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.100006	456.100006 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1440.88	1440.88 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995	-1887.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.399994	142.399994 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1716.40515	-1716.40503	✓
VehDyn_MinOffset_HwDeg_M_f32	-1004.69397	-1004.69397	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8915749	13.8915749 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.76880002	0.76880002 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

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VehDyn_Per1

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.69 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	78.5999985
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	206.600006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.6000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	45.5999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.1699999e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000782000017
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	44
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	146.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.20000005
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	25.2000008
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000569999975
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1200.56006
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000912000018
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	78.0999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	206.800003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	45.7999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.13999985e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000782000017
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	698.630005
VehDyn_MinOffset_HwDeg_M_f32	-998.01001
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000387999986

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.0289999992		
VehDyn_SLPHwPos_HwDeg_M_f32	-911.98999		
k_HiSpdVDAuthority_Uls_f32	0.330000013		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	88.5		
k_TravelXCDeadband_Uls_f32	96.2900009		
k_TravelXCHwAuthority_Uls_f32	0.0962499976		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	800969984		
target_GetSystemTime_mS_u32_CurrentTime	463842816		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1024.98999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1095.10205		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-6		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.299988		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1438.80005		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.39999962		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	62.2400017		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.5	-1753.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	463842816	463842816	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.30005	1885.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1200.56006	-1200.56006 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.5	-1753.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	698.630005	698.630005	✔
VehDyn_MinOffset_HwDeg_M_f32	413.810059	413.809998	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.19639373	3.19639349 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.330000013	0.330000013 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-238.23999	-238.240005 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.70 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	88.0999985
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	216.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	78.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.580017
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.18000002e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000783999974
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	96.0999985
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	156
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.19999981
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00057199999
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	88.5
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	216.600006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.5
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	78.5999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.580017
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.18000015e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000783999974
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	703.622009
VehDyn_MinOffset_HwDeg_M_f32	-991.325989
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000388999993
VehDyn_SLPHwAuth_Uls_M_f32	0.0460000001
VehDyn_SLPHwPos_HwDeg_M_f32	-901.72998
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	75.0999985
k_TravelXCDeadband_Uls_f32	97.7300034
k_TravelXCHwAuthority_Uls_f32	0.0974749997
target_DtrmnElapsedTime_mS_u32_ElapsedTime	569984000
target_GetSystemTime_mS_u32_CurrentTime	1759885568
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1018.72998
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1106.00903
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253.69995
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1950.05005
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	123.449997

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216	219286216	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.580017	935.580017 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.09998	-1887.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.580017	935.580017 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1106.00903	1106.00903	✓
VehDyn_MinOffset_HwDeg_M_f32	-1018.72998	-1018.72998	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.39943027	-5.3994298 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0460000001	0.0460000001 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-901.72998	-901.72998 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.71 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	94.8000031
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	226.800003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.80000019
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.8000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.799988
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.18999992e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00078599999
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	100
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	166.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	56.2000008
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000574000005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125584798
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	94.4000015
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	226.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.39999962
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.799988
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.22000009e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00078599999
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	708.614014
VehDyn_MinOffset_HwDeg_M_f32	-984.642029
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000390000001
VehDyn_SLPHwAuth_Uls_M_f32	0.063000001
VehDyn_SLPHwPos_HwDeg_M_f32	-891.469971
k_HiSpdVDAuthority_Uls_f32	0.879999995
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegHwDeg_f32	97.0999985
k_TravelXCDeadband_Uls_f32	99.1699982
k_TravelXCHwAuthority_Uls_f32	0.0987000018
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1720406272
target_GetSystemTime_mS_u32_CurrentTime	1662097408
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1012.46997
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1116.91602
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.400024

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1885.59998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	56.6539993		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.799988	-888.799988 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.19995	-1753.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.5	1885.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.799988	-888.799988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1116.91602	1116.91602	✓
VehDyn_MinOffset_HwDeg_M_f32	-1012.46997	-1012.46997	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59978819	7.59978867 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.879999995	0.879999995 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	0.0999755859	0.100000001 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.72 (Repeat Count = 1)	Name	Input Value
	DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
	GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
	Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
	VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
	VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	44.5999985
	VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.600006
	VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.5999999
	VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.6000004
	VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	5235
	VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27074
	VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631
	VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.20000004e-006
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000788000005
	VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
	VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
	VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
	VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
	VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86
	VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	123

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	42.4000015		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00057600002		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.1001		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000566000002		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	44.5600014		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.410004		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.25		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.3999996		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.26000003e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000788000005		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	713.606018		
VehDyn_MinOffset_HwDeg_M_f32	-977.958008		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000391000009		
VehDyn_SLPHwAuth_Uls_M_f32	0.0799999982		
VehDyn_SLPHwPos_HwDeg_M_f32	-881.210022		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	10.3000002		
k_TravelXCDeadband_Uls_f32	98.1399994		
k_TravelXCHwAuthority_Uls_f32	0.0999249965		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4077829376		
target_GetSystemTime_mS_u32_CurrentTime	1117112832		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1006.21002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1127.823		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	8.02999973		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154.399994		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1900.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	245.410004		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1117112832	1117112832	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5	148.5 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.1001	-2500.1001 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5	148.5 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-772.276978	-772.276978	✓
VehDyn_MinOffset_HwDeg_M_f32	-977.958008	-977.958008	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.59640932	-1.59640932 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0799999982	0.0799999982 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-881.210022	-881.210022 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.73 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	126.099998	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	236.100006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4211268631	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.799988	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.20999993e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00079000002	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	176	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	54.0999985	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000577999977	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1887.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000907999987	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	126.199997		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	236.300003		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.30000019		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.2999992		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	20423		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31368		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	328928812		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.799988		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.29999998e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00079000002		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	718.598022		
VehDyn_MinOffset_HwDeg_M_f32	-971.273987		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000391999987		
VehDyn_SLPHwAuth_Uls_M_f32	0.0970000029		
VehDyn_SLPHwPos_HwDeg_M_f32	-870.950012		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	86.5		
k_TravelXCDeadband_Uls_f32	97.1100006		
k_TravelXCHwAuthority_Uls_f32	0.101149999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2659241984		
target_GetSystemTime_mS_u32_CurrentTime	2127166208		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-999.950012		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1138.72998		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	8.53999996		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456.899994		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1887.30005		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	42.3600006		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.799988	425.799988 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012	935.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1887.19995	-1887.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.799988	425.799988 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	718.598022	718.598022	✓
VehDyn_MinOffset_HwDeg_M_f32	887.350037	887.349976	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.50272346	1.50272346 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0970000029	0.0970000029 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-870.950012	-870.950012 ± 0.1	✓

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791999977		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-723.590027		
VehDyn_MinOffset_HwDeg_M_f32	-964.590027		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000392999995		
VehDyn_SLPHwAuth_Uls_M_f32	0.114		
VehDyn_SLPHwPos_HwDeg_M_f32	-860.690002		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	42		
k_TravelXCDeadband_Uls_f32	96.0800018		
k_TravelXCHwAuthority_Uls_f32	0.102375001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2942063360		
target_GetSystemTime_mS_u32_CurrentTime	4243378688		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-993.690002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1149.63696		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	9.05000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-900.299988		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1753.40002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	52.7400017		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.5	-2000.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.299988	-888.299988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1753.09998	-1753.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	383750110	383750110	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.5	-2000.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1149.63696	1149.63696	✔
VehDyn_MinOffset_HwDeg_M_f32	-993.690002	-993.690002	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.59574163	-1.59574151 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.114	0.114 ± 0.004	

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-860.690002	-860.690002 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.75 (Repeat Count = 1) ✓

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	456.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	41.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	26195
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22037
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.229999995e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000793999992
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	88.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	166.199997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	29076
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	43868
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	255468
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	109643620
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000582000008
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	935.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000155999995
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	456
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	52.2999992
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.1999998
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.2999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.37999986e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000793999992
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	728.58197
VehDyn_MinOffset_HwDeg_M_f32	-957.906006
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000394000002

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.130999997		
VehDyn_SLPHwPos_HwDeg_M_f32	-850.429993		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	12.1000004		
k_TravelXCDeadband_Uls_f32	95.0500031		
k_TravelXCHwAuthority_Uls_f32	0.103600003		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1117112832		
target_GetSystemTime_mS_u32_CurrentTime	1050692864		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-987.429993		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1160.54395		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	9.56000042		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	800.200012		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	935.799988		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	3.20000005		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	128.839996		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.09998	1900.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	109643620	109643620	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012	425.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	935.5	935.5 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.09998	1900.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_HiSpdLearnM_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnM_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1160.54395	1160.54395	✔
VehDyn_MinOffset_HwDeg_M_f32	-987.429993	-987.429993	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7902985	-14.7902975 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.130999997	0.130999997 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-850.429993	-850.429993 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.76 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	566.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	34.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43190
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.24000007e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.200012
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000796000008
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	94.5400009
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	176.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	9.39999962
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000584000023
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-888.299988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000159999996
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	566
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	34.2999992
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	63.2000008
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43190
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.42000016e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.200012
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000796000008
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	733.573975
VehDyn_MinOffset_HwDeg_M_f32	-951.221985
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00039500001
VehDyn_SLPHwAuth_Uls_M_f32	0.148000002
VehDyn_SLPHwPos_HwDeg_M_f32	-840.169983
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	53.2999992
k_TravelXCDeadband_Uls_f32	94.0199966
k_TravelXCHwAuthority_Uls_f32	0.104824997
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1736795392
target_GetSystemTime_mS_u32_CurrentTime	3039943680
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-981.169983
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1171.45105
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-418.399994
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-888.900024
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-5.4000001
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	139.910004

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3039943680	3039943680	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2160073393	2160073393	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.30005	-2000.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-888.299988	-888.299988 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	733.573975	733.573975	✓
VehDyn_MinOffset_HwDeg_M_f32	-92.2699585	-92.2699966	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7921391	17.7921391 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.148000002	0.148000002 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-840.169983	-840.169983 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.77 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	75.4000015
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	18.3999996
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.3999996
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	88.4000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	30404
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.24999996e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000798000023
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	126.099998
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	186
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.19999981
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	52.2000008
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4294967295
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00058599998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000163999997
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	75.3000031
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	18.2999992
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.1999998
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	88.5999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	30404
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.4600001e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000798000023
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	0
VehDyn_MaxOffset_HwDeg_M_f32	738.565979
VehDyn_MinOffset_HwDeg_M_f32	-944.538025
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000395999989
VehDyn_SLPHwAuth_Uls_M_f32	0.165000007
VehDyn_SLPHwPos_HwDeg_M_f32	-829.909973
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	86.5
k_TravelXCDeadband_Uls_f32	92.9899979
k_TravelXCHwAuthority_Uls_f32	0.10605
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3437401088
target_GetSystemTime_mS_u32_CurrentTime	1316564736
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-974.909973
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1182.35803
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.00999999
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-425.200012
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	425.5
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.5999999

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	387.820007		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	425.200012	425.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	738.565979	738.565979	✓
VehDyn_MinOffset_HwDeg_M_f32	-944.538025	-944.538025	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.99838495	-6.99838495 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.165000007	0.165000007 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-829.909973	-829.909973 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.78 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	10.5	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	88.5	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.5	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.5	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	10412	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3277	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.26000008e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00079999998	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	196.199997	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.19999981		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	41		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2291		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58929		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	255468		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000587999995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.80005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000167999999		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	10.3000002		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	88.1999969		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.29999995		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	75.3000031		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	10412		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3277		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.50000004e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00079999998		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	743.557983		
VehDyn_MinOffset_HwDeg_M_f32	-937.854004		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000396999996		
VehDyn_SLPHwAuth_Uls_M_f32	0.181999996		
VehDyn_SLPHwPos_HwDeg_M_f32	-819.650024		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	96		
k_TravelXCDeadband_Uls_f32	91.9599991		
k_TravelXCHwAuthority_Uls_f32	0.107275002		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3494315776		
target_GetSystemTime_mS_u32_CurrentTime	2075080192		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-968.650024		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1193.26501		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.01999998		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	752.099976		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-423.399994		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.5		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	398.720001		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024	1024	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	255468	255468	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.30005	-1900.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.80005	-2000.80005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1193.26501	1193.26501	✓
VehDyn_MinOffset_HwDeg_M_f32	-968.650024	-968.650024	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.2959094	6.29590893 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.181999996	0.181999996 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-819.650024	-819.650024 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.79 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	66.0999985
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	76.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	10.1000004
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.26999998e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000801999995
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	456.540009
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	206.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.4000001
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	63.2000008
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4290967295
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000590000011
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000172
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	0		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	76.5999985		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.19999981		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	97.5999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	16683		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22497		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.53999998e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000801999995		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	748.549988		
VehDyn_MinOffset_HwDeg_M_f32	-931.169983		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000398000004		
VehDyn_SLPHwAuth_Uls_M_f32	0.199000001		
VehDyn_SLPHwPos_HwDeg_M_f32	-809.390015		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegHwDeg_f32	45.0999985		
k_TravelXCDeadband_Uls_f32	90.9300003		
k_TravelXCHwAuthority_Uls_f32	0.108499996		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	463842816		
target_GetSystemTime_mS_u32_CurrentTime	954802432		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-962.390015		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1204.172		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.03000021		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-158.399994		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	796.599976		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.60000002		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	489.609985		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	954802432	954802432	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.09998	1900.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	954802432	954802432	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988	456.299988 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1204.172	1204.172	✓
VehDyn_MinOffset_HwDeg_M_f32	-962.390015	-962.390015	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79487991	7.79487944 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.199000001	0.199000001 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-809.390015	-809.390015 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.80 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	34.1399994	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	86.0999985	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.4000001	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	25.3999996	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.2800001e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00080400001	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	566	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	216	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.10000002	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	88.4000015	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1078320779	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	383750110	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.299988	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000592000026	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000176000001	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	700	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.3000031	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.30000019	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.1999969	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.57999992e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00080400001		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	753.541992		
VehDyn_MinOffset_HwDeg_M_f32	-924.486023		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000399000011		
VehDyn_SLPHwAuth_Uls_M_f32	0.216000006		
VehDyn_SLPHwPos_HwDeg_M_f32	-799.130005		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	78.3000031		
k_TravelXCDeadband_Uls_f32	89.9000015		
k_TravelXCHwAuthority_Uls_f32	0.109724998		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1759885568		
target_GetSystemTime_mS_u32_CurrentTime	2728878080		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-956.130005		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1215.07898		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-6.03999996		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	753.700012		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1456.69995		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	500.049988		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988	-753.799988 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1078320779	1078320779	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	383750110	383750110	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995	-2500.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-241.620972	-241.621002	✔
VehDyn_MinOffset_HwDeg_M_f32	-924.486023	-924.486023	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.19633675	3.19633675 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.81 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	2.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	96.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.29e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000806000025
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	45.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	226.199997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.4000001
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	75.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000593999983
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000180000003
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	152.199997
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	96.3000031
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.19999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.2999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.61999987e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000806000025
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	758.533997
VehDyn_MinOffset_HwDeg_M_f32	-917.802002

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00039999999		
VehDyn_SLPHwAuth_Uls_M_f32	0.232999995		
VehDyn_SLPHwPos_HwDeg_M_f32	-788.869995		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	96.5		
k_TravelXCDeadband_Uls_f32	88.8700027		
k_TravelXCHwAuthority_Uls_f32	0.110950001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1662097408		
target_GetSystemTime_mS_u32_CurrentTime	824746752		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-949.869995		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1225.98596		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-7.05000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	159.600006		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-758.799988		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-7.30000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	499.070007		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110	383750110	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988	456.299988 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	824746752	824746752	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005	2600.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.30005	2800.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	758.533997	758.533997	✔
VehDyn_MinOffset_HwDeg_M_f32	-191.070007	-191.070007	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.40069056	-5.40069008 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.232999995	0.232999995 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-788.869995	-788.869995 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.82 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	120.099998
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	106.099998
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.10000038
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	56.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.29999989e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000807999982
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	10.3999996
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	236
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	97.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000595999998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.799988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000184000004
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	98.4000015
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	0
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.3000002
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.1999998
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.66000017e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000807999982
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	763.526001
VehDyn_MinOffset_HwDeg_M_f32	-911.117981
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000400999998
VehDyn_SLPHwAuth_Uls_M_f32	0.25
VehDyn_SLPHwPos_HwDeg_M_f32	-778.609985
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	32.0999985
k_TravelXCDeadband_Uls_f32	87.8399963
k_TravelXCHwAuthority_Uls_f32	0.112175003
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2127166208
target_GetSystemTime_mS_u32_CurrentTime	309385728
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-943.609985
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1236.89294
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8.06000042
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1100.09998
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	145.5
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	120.349998

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_m_str.Timer1_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrDetSpd_m_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrDetSpd_m_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_m_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_m_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_m_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_m_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_m_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_m_str.Timer1_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrHiSpd_m_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_m_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_m_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.799988	-753.799988 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_m_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_m_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_m_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_m_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_m_str.Timer1_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrLoSpd_m_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrLoSpd_m_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_m_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_m_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_m_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_m_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_m_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1236.89294	1236.89294	✓
VehDyn_MinOffset_HwDeg_M_f32	-943.609985	-943.609985	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59373665	7.59373665 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.25	0.25 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-778.609985	-778.609985 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.83 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_m_str.MtrVel_MtrRadpS_f32	66
VehDyn_AutoCntrDetSpd_m_str.VehSpd_kph_f32	116
VehDyn_AutoCntrDetSpd_m_str.FiltPinTrq_HwNm_f32	10
VehDyn_AutoCntrDetSpd_m_str.CntrWindow_HwDeg_f32	54
VehDyn_AutoCntrDetSpd_m_str.Timer1Thresh_mS_u16	53759

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.31000001e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.100006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000809999998
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	56.2000008
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	246.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.19999981
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000598000013
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.299988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000188000005
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	66.4000015
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	255
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.1999998
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.2999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.70000011e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000809999998
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	0
VehDyn_MaxOffset_HwDeg_M_f32	768.518005
VehDyn_MinOffset_HwDeg_M_f32	-904.434021
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000402000005
VehDyn_SLPHwAuth_Uls_M_f32	0.26699999
VehDyn_SLPHwPos_HwDeg_M_f32	-768.349976
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegHwDeg_f32	52
k_TravelXCDeadband_Uls_f32	86.8099976
k_TravelXCHwAuthority_Uls_f32	0.113399997
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4243378688
target_GetSystemTime_mS_u32_CurrentTime	2659241984
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-937.349976
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1247.80005
target_VehDyn_Per1_HwTorque_HwNm_f32.value	2
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1235.40002

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2000.02002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230.869995		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.3999	2600.3999 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.100006	456.100006 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2659241984	2659241984	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.19995	2600.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.299988	456.299988 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2659241984	2659241984	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.30005	1950.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1247.80005	1247.80005	✓
VehDyn_MinOffset_HwDeg_M_f32	-937.349976	-937.349976	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.50024426	1.50024426 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.26699999	0.26699999 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-768.349976	-768.349976 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.84 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	34.2000008
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	126.199997
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.1999998
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	85.1999969
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.31999991e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000812000013
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86.0999985		
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	123		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.1999998		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	42.2000008		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2760420810		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000600000028		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000192000007		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	34		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.599998		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.3999996		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.1999969		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	33198		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	7778		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.74000005e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.40002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000812000013		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	773.51001		
VehDyn_MinOffset_HwDeg_M_f32	-897.75		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000403000013		
VehDyn_SLPHwAuth_Uls_M_f32	0.284000009		
VehDyn_SLPHwPos_HwDeg_M_f32	-758.090027		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	10.1000004		
k_TravelXCDeadband_Uls_f32	85.7799988		
k_TravelXCHwAuthority_Uls_f32	0.114624999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1050692864		
target_GetSystemTime_mS_u32_CurrentTime	2942063360		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-931.090027		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1258.70703		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	2.20000005		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154.399994		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1900.59998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	245.070007		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2942063360	2942063360	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.40002	1885.40002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-641.892944	-641.893005	✓
VehDyn_MinOffset_HwDeg_M_f32	-897.75	-897.75	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.59865212	-1.59865212 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.284000009	0.284000009 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-758.090027	-758.090027 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.85 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	2.0999999
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	136.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.6001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.33000003e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000814000028
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	75
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	125.199997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.2000008
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	12.1999998
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	34738
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36612
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000601999986
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.3999
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000195999994
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	2.4000001		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.600006		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	0		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.3000031		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21335		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34188		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.779999999e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.300003		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000814000028		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	778.502014		
VehDyn_MinOffset_HwDeg_M_f32	-891.065979		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000403999991		
VehDyn_SLPHwAuth_Uls_M_f32	0.300999999		
VehDyn_SLPHwPos_HwDeg_M_f32	-747.830017		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	25.1000004		
k_TravelXCDeadband_Uls_f32	84.75		
k_TravelXCHwAuthority_Uls_f32	0.115850002		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3039943680		
target_GetSystemTime_mS_u32_CurrentTime	1117112832		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-924.830017		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1269.61401		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	2.4000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.099976		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1900.59998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	10.04		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.6001	2800.6001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1117112832	1117112832	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.3999	2600.3999 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1117112832	1117112832	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.5	753.5 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.300003	142.300003 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	778.502014	778.502014	✓
VehDyn_MinOffset_HwDeg_M_f32	975.769958	975.77002	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7931299	-14.7931299 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.300999999	0.300999999 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-747.830017	-747.830017 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.86 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	120.199997	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	146.199997	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.2000008	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.2000008	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	33198	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7778	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.40002	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.33999992e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000815999985	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	98.1999969	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	32.0999985	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	53	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	37799	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	41632	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000604000001	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000199999995	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	120.599998	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	20	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	45.2000008	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	12258	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36416	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.81999993e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000815999985		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	783.494019		
VehDyn_MinOffset_HwDeg_M_f32	-884.382019		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000404999999		
VehDyn_SLPHwAuth_Uls_M_f32	0.317999989		
VehDyn_SLPHwPos_HwDeg_M_f32	-737.570007		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	86.3000031		
k_TravelXCDeadband_Uls_f32	83.7200012		
k_TravelXCHwAuthority_Uls_f32	0.117075004		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1316564736		
target_GetSystemTime_mS_u32_CurrentTime	1736795392		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-918.570007		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1280.521		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	2.5999999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253.5		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1482.80005		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.89999998		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	20.3099995		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1736795392	1736795392	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005	-2400.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024	1024	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1280.521	1280.521	✔
VehDyn_MinOffset_HwDeg_M_f32	-918.570007	-918.570007	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7938347	17.7938347 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.317999989	0.317999989 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-737.570007	-737.570007 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.87 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	350.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	3.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.35000004e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000818
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	66.5400009
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	124
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	8366
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	51002
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000606000016
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.6001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000203999996
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	350.600006
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.600006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.29999995
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	78.8000031
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	34738
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36612
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.85999987e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000818
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	788.486023
VehDyn_MinOffset_HwDeg_M_f32	-877.697998

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000406000006		
VehDyn_SLPHwAuth_Uls_M_f32	0.335000008		
VehDyn_SLPHwPos_HwDeg_M_f32	-727.309998		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	56.5		
k_TravelXCDeadband_Uls_f32	82.6900024		
k_TravelXCHwAuthority_Uls_f32	0.118299998		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2075080192		
target_GetSystemTime_mS_u32_CurrentTime	3437401088		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-912.309998		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1291.42798		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	2.79999995		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.400024		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.299988		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.19999981		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	25.8700008		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3437401088	3437401088	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.6001	2800.6001 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3437401088	3437401088	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.5	1988.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1291.42798	1291.42798	✔
VehDyn_MinOffset_HwDeg_M_f32	-912.309998	-912.309998	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.99596214	-6.99596214 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.335000008	0.335000008 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-727.309998	-727.309998 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.88 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	400.299988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.300003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.30000019
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	41.2999992
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.35999994e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000820000016
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	34.2000008
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	84.1999969
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.19999981
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	3658
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	5853
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.80005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000607999973
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000207999998
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	400.5
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.5
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	0
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	37799
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	41632
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.90000018e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.69995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000820000016
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnM_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnM_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	793.478027
VehDyn_MinOffset_HwDeg_M_f32	-871.013977
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000407000014
VehDyn_SLPHwAuth_Uls_M_f32	0.351999998
VehDyn_SLPHwPos_HwDeg_M_f32	-717.049988
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	54.0999985
k_TravelXCDeadband_Uls_f32	81.6600037
k_TravelXCHwAuthority_Uls_f32	0.119525
target_DtrmnElapsedTime_mS_u32_ElapsedTime	954802432
target_GetSystemTime_mS_u32_CurrentTime	3494315776
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32

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Name	Input Value		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-906.049988		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1302.33496		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	3		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456.100006		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	456.399994		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.39999962		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	30.4099998		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.80005	-1988.80005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620	109643620	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.69995	1900.69995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	793.478027	793.478027	✔
VehDyn_MinOffset_HwDeg_M_f32	-871.013977	-871.013977	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79798317	7.79798317 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.351999998	0.351999998 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-717.049988	-717.049988 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.89 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	600.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	176.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	9.10000038
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	34738

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36612
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.37000006e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000821999973
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	2.20000005
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	64.4000015
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	45.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	29076
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	43868
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.80005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000609999988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000211999999
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	600.599976
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.600006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.60000002
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	100
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.94000012e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000821999973
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	798.469971
VehDyn_MinOffset_HwDeg_M_f32	-864.330017
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000407999993
VehDyn_SLPHwAuth_Uls_M_f32	0.368999988
VehDyn_SLPHwPos_HwDeg_M_f32	-706.789978
k_HiSpdVDAuthority_Uls_f32	0.899999976
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	85.0999985
k_TravelXCDeadband_Uls_f32	80.6299973
k_TravelXCHwAuthority_Uls_f32	0.120750003
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2728878080
target_GetSystemTime_mS_u32_CurrentTime	463842816
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-899.789978
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1313.24194
target_VehDyn_Per1_HwTorque_HwNm_f32.value	3.20000005
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1199.09998

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VehDyn_Per1

Name	Input Value	Expected Value	Result
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500.1001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	35.5499992		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.59998	1988.59998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.80005	1988.80005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.5	-2000.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	798.469971	798.469971	✓
VehDyn_MinOffset_HwDeg_M_f32	1600.31006	1600.31006	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20002365	3.20002341 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.368999988	0.368999988 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-706.789978	-706.789978 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.90 (Repeat Count = 1)	Name	Input Value
	DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
	GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
	Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
	VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
	VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.300003
	VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	186.100006
	VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	7.0999999
	VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	88.0999985
	VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	26195
	VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22037
	VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759
	VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.40002
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.37999995e-006
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000823999988
	VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
	VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
	VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
	VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	120		
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	52.0999985		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	78.1999969		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	32821		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	53946		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000612000003		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000216		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	200.699997		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146.699997		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.69999981		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.2000008		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43190		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3186		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.98000006e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.69995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000823999988		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	803.461975		
VehDyn_MinOffset_HwDeg_M_f32	-857.645996		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000409		
VehDyn_SLPHwAuth_Uls_M_f32	0.386000007		
VehDyn_SLPHwPos_HwDeg_M_f32	-696.530029		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	96.0999985		
k_TravelXCDeadband_Uls_f32	79.5999985		
k_TravelXCHwAuthority_Uls_f32	0.121974997		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	824746752		
target_GetSystemTime_mS_u32_CurrentTime	1759885568		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-893.530029		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1324.14905		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	3.4000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1299.40002		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2600.80005		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	36.7700005		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.40002	1991.40002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216	219286216	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005	1900.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.69995	-1482.69995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1324.14905	1324.14905	✓
VehDyn_MinOffset_HwDeg_M_f32	-893.530029	-893.530029	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.39637709	-5.39637709 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.386000007	0.386000007 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-696.530029	-696.530029 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.91 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.899994	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	196.899994	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.9000001	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.9000015	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43190	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3186	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.40002	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.39000007e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.09998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000826000003	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	350.399994	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	34	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.1999998	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40437	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13059	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4211268631	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.30005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000614000019	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.59998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000220000002	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	457.100006		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.199997		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	13.1999998		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	10.3000002		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	0		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	30349		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.02e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000826000003		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	808.453979		
VehDyn_MinOffset_HwDeg_M_f32	-850.961975		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000410000008		
VehDyn_SLPHwAuth_Uls_M_f32	0.402999997		
VehDyn_SLPHwPos_HwDeg_M_f32	-686.27002		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	32.2999992		
k_TravelXCDeadband_Uls_f32	78.5699997		
k_TravelXCHwAuthority_Uls_f32	0.123199999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	309385728		
target_GetSystemTime_mS_u32_CurrentTime	1662097408		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-887.27002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1335.05603		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	3.5999999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-147.600006		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400.1001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	38.6300011		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.40002	-2000.40002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.09998	1988.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.30005	-2000.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.59998	1988.59998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1335.05603	1335.05603	✓
VehDyn_MinOffset_HwDeg_M_f32	-887.27002	-887.27002	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5982585	7.5982585 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.402999997	0.402999997 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-686.27002	-686.27002 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.92 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	498.100006	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	206.100006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	3.0999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	97.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	30404	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	30349	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.39999997e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000828000018	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	400.200012	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	18	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	12	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2291	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58929	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000615999976	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.40002	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000224000003	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	498.399994	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.100006	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	19.2999992	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	25.3999996	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	60000	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3277	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	328928812	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.05999994e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.700012		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000828000018		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	813.445984		
VehDyn_MinOffset_HwDeg_M_f32	-844.278015		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000410999986		
VehDyn_SLPHwAuth_Uls_M_f32	0.419999987		
VehDyn_SLPHwPos_HwDeg_M_f32	-676.01001		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	52.5		
k_TravelXCDeadband_Uls_f32	77.5400009		
k_TravelXCHwAuthority_Uls_f32	0.124425001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4164171008		
target_GetSystemTime_mS_u32_CurrentTime	2127166208		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-881.01001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1345.96301		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	3.79999995		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	88.8000031		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2800.80005		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	45.4099998		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024	1024	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.40002	1991.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.700012	456.700012 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-1454.83704	-1454.83704	✔
VehDyn_MinOffset_HwDeg_M_f32	-844.278015	-844.278015	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.50100636	1.50100636 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.419999987	0.419999987 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-676.01001	-676.01001 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.93 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	539.799988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	216.800003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	1.79999995
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.8000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	10412
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.41000009e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000829999975
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	600.200012
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	88.4000015
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.1999998
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	52.2000008
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000617999991
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000228000004
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	539.099976
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	176.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.0999999
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	16683
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.09999988e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000829999975
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	818.437988
VehDyn_MinOffset_HwDeg_M_f32	-837.593994

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000411999994		
VehDyn_SLPHwAuth_Uls_M_f32	0.437000006		
VehDyn_SLPHwPos_HwDeg_M_f32	-665.75		
k_HiSpdVDAuthority_Uls_f32	0.899999976		
k_LoSpdVDAuthority_Uls_f32	0.100000001		
k_SysKinRatio_MtrDegpHwDeg_f32	41.0999985		
k_TravelXCDeadband_Uls_f32	76.5100021		
k_TravelXCHwAuthority_Uls_f32	0.125650004		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	437658624		
target_GetSystemTime_mS_u32_CurrentTime	4243378688		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-874.75		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1356.87		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	4		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-75.5400009		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1438.59998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	3.20000005		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	456.869995		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.59998	-1900.59998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.40002	-2000.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	818.437988	818.437988	✔
VehDyn_MinOffset_HwDeg_M_f32	563.849976	563.849976	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.59766078	-1.59766078 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.100000001	0.100000001 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	43.9000244	43.9000015 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.94 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	580.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	42.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	16683
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.40002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.41999998e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000831999991
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	200
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	76
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.4000001
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	10
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	109643620
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000620000006
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000232000006
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	580.01001
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	186.199997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.01000023
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	56.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	0
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.14000019e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.700012
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000831999991
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnM_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnM_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	-823.429993
VehDyn_MinOffset_HwDeg_M_f32	-830.909973
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000413000002
VehDyn_SLPHwAuth_Uls_M_f32	0.453999996
VehDyn_SLPHwPos_HwDeg_M_f32	-655.48999
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	0.600000024
k_SysKinRatio_MtrDegpHwDeg_f32	63.0999985
k_TravelXCDeadband_Uls_f32	75.4800034
k_TravelXCHwAuthority_Uls_f32	0.126874998
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3941357312
target_GetSystemTime_mS_u32_CurrentTime	1050692864
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-868.48999
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1367.77698
target_VehDyn_Per1_HwTorque_HwNm_f32.value	4.19999981
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-900.099976
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	753.330017
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-5.4000001
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	45.6399994

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.40002	-1482.40002 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	109643620	109643620	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988	456.299988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.700012	-753.700012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1367.77698	1367.77698	✓
VehDyn_MinOffset_HwDeg_M_f32	-868.48999	-868.48999	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7921886	-14.7921886 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.453999996	0.453999996 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-655.48999	-655.48999 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.95 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	621.700012
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.699997
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.69999981
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.6999998
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	5235

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.43000011e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000834000006
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	457.200012
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	86.1999969
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.19999981
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	25.3999996
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000622000021
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.59998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000236000007
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	621.200012
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	196.300003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	9.19999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	54.2999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	60000
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.17999976e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.299988
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000834000006
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	0
VehDyn_MaxOffset_HwDeg_M_f32	828.421997
VehDyn_MinOffset_HwDeg_M_f32	-824.226013
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000414000009
VehDyn_SLPHwAuth_Uls_M_f32	0.470999986
VehDyn_SLPHwPos_HwDeg_M_f32	-645.22998
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0.800000012
k_SysKinRatio_MtrDegpHwDeg_f32	88.0999985
k_TravelXCDeadband_Uls_f32	74.4499969
k_TravelXCHwAuthority_Uls_f32	0.128099993
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3304439296
target_GetSystemTime_mS_u32_CurrentTime	3039943680
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-862.22998
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1378.68396
target_VehDyn_Per1_HwTorque_HwNm_f32.value	4.4000001
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	800

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1988.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	75.3099976		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3039943680	3039943680	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.59998	-1900.59998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3039943680	3039943680	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995	-2500.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.299988	456.299988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1378.68396	1378.68396	✓
VehDyn_MinOffset_HwDeg_M_f32	-862.22998	-862.22998	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.794487	17.7944889 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.800000012	0.800000012 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.96 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.600006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	146.600006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.6000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.5999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.399994
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.44e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000836000021
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	498		
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.19999981		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.1999969		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39056		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	219286216		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000623999978		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000239999994		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	662.700012		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	206.5		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.69999981		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	85.5		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	2291		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	16683		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.22000007e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000836000021		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-833.414001		
VehDyn_MinOffset_HwDeg_M_f32	-817.541992		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000414999988		
VehDyn_SLPHwAuth_Uls_M_f32	0.488000005		
VehDyn_SLPHwPos_HwDeg_M_f32	-634.969971		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.600000024		
k_SysKinRatio_MtrDegpHwDeg_f32	75.0999985		
k_TravelXCDeadband_Uls_f32	73.4199982		
k_TravelXCHwAuthority_Uls_f32	0.129325002		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2167769344		
target_GetSystemTime_mS_u32_CurrentTime	1316564736		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-855.969971		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1389.59094		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	4.5999999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-418.399994		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1988.59998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.5		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	159.820007		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.405273	456.405273 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	219286216	219286216	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002	-1482.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005	2600.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-833.414001	-833.414001	✓
VehDyn_MinOffset_HwDeg_M_f32	-817.541992	-817.541992	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.99517775	-6.99517775 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.488000005	0.488000005 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-634.969971	-634.969971 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓	
GetSystemTime_mS_u32	2	GetSystemTime_mS_u32	2	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.97 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	498.100006	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.100006	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.5		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	216.100006		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.5		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.0999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	38868		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	41632		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.25999965e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000837999978		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	838.406006		
VehDyn_MinOffset_HwDeg_M_f32	-810.857971		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000415999995		
VehDyn_SLPHwAuth_Uls_M_f32	0.504999995		
VehDyn_SLPHwPos_HwDeg_M_f32	-624.710022		
k_HiSpdVDAuthority_Uls_f32	0.230000004		
k_LoSpdVDAuthority_Uls_f32	0.5		
k_SysKinRatio_MtrDegpHwDeg_f32	97.3000031		
k_TravelXCDeadband_Uls_f32	72.3899994		
k_TravelXCHwAuthority_Uls_f32	0.130549997		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3714197504		
target_GetSystemTime_mS_u32_CurrentTime	2075080192		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-849.710022		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1400.49805		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	4.80000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-425.200012		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1991.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.60000002		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	357.700012		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnM_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnM_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-590.601929	-590.60199	✓
VehDyn_MinOffset_HwDeg_M_f32	-810.857971	-810.857971	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.29936934	6.29936934 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.5	0.5 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.98 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	539.599976	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.600006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.5999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	41.6599998	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	12258	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36416	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.46000002e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000839999993	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	580	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	116.400002	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	54.2000008	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53759	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	18715	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	328928812	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000628000009	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000247999997	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	138.800003	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	226.199997	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.79999995	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.2000008	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53970	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	5235	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784	

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Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.29999995e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.100006		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000839999993		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	843.39801		
VehDyn_MinOffset_HwDeg_M_f32	-804.174011		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000417000003		
VehDyn_SLPHwAuth_Uls_M_f32	0.522000015		
VehDyn_SLPHwPos_HwDeg_M_f32	-614.450012		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.699999988		
k_SysKinRatio_MtrDegpHwDeg_f32	86.5		
k_TravelXCDeadband_Uls_f32	71.3600006		
k_TravelXCHwAuthority_Uls_f32	0.131775007		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3323480832		
target_GetSystemTime_mS_u32_CurrentTime	954802432		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-843.450012		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1411.40503		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	5		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	752		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2880.05005		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	456.160004		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	954802432	954802432	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5	2600.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5	2600.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994	456.399994 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.100006	456.100006 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1411.40503	1411.40503	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_MinOffset_HwDeg_M_f32	-843.450012	-843.450012	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1957684	15.1957684 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.522000015	0.522000015 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-614.450012	-614.450012 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.99 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	580.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	176.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	9.10000038
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	34738
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36612
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.46999991e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000842000009
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	621.400024
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	126
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	12
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	85
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000630000024
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000251999998
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	86.0999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	236.600006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.10000002
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.5999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	0
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.34000025e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000842000009
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	848.390015

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Name	Input Value		
VehDyn_MinOffset_HwDeg_M_f32	-797.48999		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000418000011		
VehDyn_SLPHwAuth_Uls_M_f32	0.538999975		
VehDyn_SLPHwPos_HwDeg_M_f32	-604.190002		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.800000012		
k_SysKinRatio_MtrDegpHwDeg_f32	42.0999985		
k_TravelXCDeadband_Uls_f32	70.3300018		
k_TravelXCHwAuthority_Uls_f32	0.133000001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	71426560		
target_GetSystemTime_mS_u32_CurrentTime	2728878080		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-837.190002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1422.31201		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	5.19999981		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-158.979996		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	200.899994		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-7.30000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	258.149994		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	0	0 ± 0.000009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1422.31201	1422.31201	✓
VehDyn_MinOffset_HwDeg_M_f32	-837.190002	-837.190002	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.9962492	13.9962492 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.800000012	0.800000012 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

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VehDyn_Per1

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.100 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	62.5099983
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	186.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	7.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	88.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	26195
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22037
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.48000003e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000844000024
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	662.200012
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	136.399994
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000631999981
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000255999999
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	44.5999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	246.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.5999999
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1440.88
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.37999983e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000844000024
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	853.382019
VehDyn_MinOffset_HwDeg_M_f32	-790.80603
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89999962
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000418999989

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.555999994		
VehDyn_SLPHwPos_HwDeg_M_f32	-593.929993		
k_HiSpdVDAuthority_Uls_f32	0.119999997		
k_LoSpdVDAuthority_Uls_f32	0.800000012		
k_SysKinRatio_MtrDegHwDeg_f32	12.1000004		
k_TravelXCDeadband_Uls_f32	69.3000031		
k_TravelXCHwAuthority_Uls_f32	0.134224996		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2430672128		
target_GetSystemTime_mS_u32_CurrentTime	824746752		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-830.929993		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1433.21899		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	5.4000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	753		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2000.04004		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	369.75		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.5	2600.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1440.88	1440.88 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	853.382019	853.382019	✔
VehDyn_MinOffset_HwDeg_M_f32	1169.11011	1169.10999	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89857769	8.89857864 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.119999997	0.119999997 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.101 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	662.400024
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	196.399994
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.4000001
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.4000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43190
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.40002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.48999993e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000845999981
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124.199997
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	146
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.3999996
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.80005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000633999996
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000260000001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	96.6999969
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	42.5999985
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.69999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	63.5999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1200.56006
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.42000014e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000845999981
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	858.374023
VehDyn_MinOffset_HwDeg_M_f32	-784.122009
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8999996
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000419999997
VehDyn_SLPHwAuth_Uls_M_f32	0.573000014
VehDyn_SLPHwPos_HwDeg_M_f32	-583.669983
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0.5
k_SysKinRatio_MtrDegpHwDeg_f32	53.5
k_TravelXCDeadband_Uls_f32	68.2699966
k_TravelXCHwAuthority_Uls_f32	0.135450006
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2242866176
target_GetSystemTime_mS_u32_CurrentTime	309385728
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-824.669983
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1427.65002
target_VehDyn_Per1_HwTorque_HwNm_f32.value	5.5999999
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	159.410004
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1900.64001
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	156.960007

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002	1988.40002 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.80005	-1438.80005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1200.56006	-1200.56006 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005	-2400.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-472.98999	-472.98999	✓
VehDyn_MinOffset_HwDeg_M_f32	-784.122009	-784.122009	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8965578	13.8965578 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.5	0.5 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.102 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	124.099998
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	206.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	3.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	97.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	30404

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.6001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.50000005e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000847999996
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	138
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	156
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	52.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000636000012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000264000002
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	100.599998
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	124.699997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.5999999
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	88.6999969
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000847999996
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	863.366028
VehDyn_MinOffset_HwDeg_M_f32	-777.437988
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000421000004
VehDyn_SLPHwAuth_Uls_M_f32	0.589999974
VehDyn_SLPHwPos_HwDeg_M_f32	-573.409973
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	86.0999985
k_TravelXCDeadband_Uls_f32	67.2399979
k_TravelXCHwAuthority_Uls_f32	0.136675
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2269150976
target_GetSystemTime_mS_u32_CurrentTime	2659241984
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-818.409973
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1422.08105
target_VehDyn_Per1_HwTorque_HwNm_f32.value	5.80000019
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1100

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1900.23999		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	135.139999		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2659241984	2659241984	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.6001	2600.6001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.5	753.5 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1422.08105	1422.08105	✓
VehDyn_MinOffset_HwDeg_M_f32	-818.409973	-818.409973	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79913568	7.79913568 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.589999974	0.589999974 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-573.409973	-573.409973 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.103 (Repeat Count = 1)	Name	Input Value
	DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
	GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
	Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
	VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
	VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	138.100006
	VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	216.199997
	VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	1.20000005
	VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.1999969
	VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	10412
	VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3277
	VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682
	VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.400024
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.50999994e-006
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999
	VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000850000011
	VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
	VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
	VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
	VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
	VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86.1999969
	VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	166

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.4000001		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	41		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2760420810		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.80005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000638000027		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000268000003		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.699997		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	216.600006		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.70000005		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	88.5999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53970		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52282		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1078320779		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	383750110		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.40002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125584798		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000850000011		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	868.357971		
VehDyn_MinOffset_HwDeg_M_f32	-770.754028		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000422000012		
VehDyn_SLPHwAuth_Uls_M_f32	0.606999993		
VehDyn_SLPHwPos_HwDeg_M_f32	-563.150024		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	96.3000031		
k_TravelXCDeadband_Uls_f32	66.2099991		
k_TravelXCHwAuthority_Uls_f32	0.137899995		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3533260288		
target_GetSystemTime_mS_u32_CurrentTime	2942063360		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-812.150024		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1416.51196		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	6		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1235.73999		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1482.28003		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	354.75		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.400024	753.400024 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2942063360	2942063360	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.80005	-1988.80005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2942063360	2942063360	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.40002	-1988.40002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005	-1900.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1416.51196	1416.51196	✓
VehDyn_MinOffset_HwDeg_M_f32	-812.150024	-812.150024	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20116019	3.20116019 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.606999993	0.606999993 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-563.150024	-563.150024 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.104 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	498.200012
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.199997
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	3.20000005
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.2000008
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.52000006e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000852000026
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	10
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	226.399994
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000639999984
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.6001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000272000005
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	98.8000031		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	88.3000031		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.8000002		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.2999992		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	38868		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	57944		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000566000002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000852000026		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	873.349976		
VehDyn_MinOffset_HwDeg_M_f32	-764.070007		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00042299999		
VehDyn_SLPHwAuth_Uls_M_f32	0.624000013		
VehDyn_SLPHwPos_HwDeg_M_f32	-552.890015		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	32.5		
k_TravelXCDeadband_Uls_f32	65.1800003		
k_TravelXCHwAuthority_Uls_f32	0.139125004		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3714197504		
target_GetSystemTime_mS_u32_CurrentTime	2075080192		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-805.890015		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1410.94299		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	6.19999981		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253.73999		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.059998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	398.109985		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.200012	-888.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.6001	2600.6001 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753	-753 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	873.349976	873.349976	✓
VehDyn_MinOffset_HwDeg_M_f32	-52.8300171	-52.8300018	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79938316	7.79938316 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.624000013	0.624000013 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-552.890015	-552.890015 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.105 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	86.0999985	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.100006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.0999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	42.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	16683	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22497	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4004004657	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.52999996e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000853999984	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	44.4000015	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	176	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	9.19999981	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	63	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	34738	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36612	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.80005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000641999999	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000276000006	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	78.3000031	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	226.800003	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.29999995	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	75.8000031	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.399994		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.37999983e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000853999984		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	878.34198		
VehDyn_MinOffset_HwDeg_M_f32	-757.385986		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000423999998		
VehDyn_SLPHwAuth_Uls_M_f32	0.640999973		
VehDyn_SLPHwPos_HwDeg_M_f32	-542.630005		
k_HiSpdVDAuthority_Uls_f32	0.300000012		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	45.0999985		
k_TravelXCDeadband_Uls_f32	64.1500015		
k_TravelXCHwAuthority_Uls_f32	0.140349999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	812314880		
target_GetSystemTime_mS_u32_CurrentTime	1117112832		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-799.630005		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1405.37402		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	6.4000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154.539993		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.080017		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.89999998		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	126.220001		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999	2800.3999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1117112832	1117112832	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.80005	1988.80005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024	753.400024 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.399994	456.399994 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	878.34198	878.34198	✔
VehDyn_MinOffset_HwDeg_M_f32	-46.5499878	-46.5499992	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.39501476	-5.39501476 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.300000012	0.300000012 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1506.47998	-1506.47998 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.106 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	44.4000015
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.399994
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.4000001
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.3999996
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.199997
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.54000008e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000855999999
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	96
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	186.399994
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	88.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	26195
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22037
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000644000014
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000280000007
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	88.3000031
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	236.300003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.30000019
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	97.3000031
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.39999998e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000855999999
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	883.333984
VehDyn_MinOffset_HwDeg_M_f32	-750.702026

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000425000006		
VehDyn_SLPHwAuth_Uls_M_f32	0.657999992		
VehDyn_SLPHwPos_HwDeg_M_f32	-532.369995		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	78.3000031		
k_TravelXCDeadband_Uls_f32	63.1199989		
k_TravelXCHwAuthority_Uls_f32	0.141574994		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3345084416		
target_GetSystemTime_mS_u32_CurrentTime	1736795392		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-793.369995		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1399.80505		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	6.5999999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	456.040009		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.19999981		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	354.98999		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.199997	148.199997 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1736795392	1736795392	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1736795392	1736795392	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1399.80505	1399.80505	✔
VehDyn_MinOffset_HwDeg_M_f32	-793.369995	-793.369995	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59961939	7.59961939 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.657999992	0.657999992 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-532.369995	-532.369995 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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Test Step 2.107 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	96.0999985
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	176.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	53.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	29076
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	43868
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.54999997e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.40002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000858000014
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	100.199997
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	196
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.4000001
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	75
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43190
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000645999971
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000284000009
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	94.1999969
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	246.199997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.19999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.1999969
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.3999
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.42000014e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	0
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000858000014
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnM_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnM_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	888.325989
VehDyn_MinOffset_HwDeg_M_f32	-744.018005
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000426000013
VehDyn_SLPHwAuth_Uls_M_f32	0.675000012
VehDyn_SLPHwPos_HwDeg_M_f32	-522.109985
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	96.5
k_TravelXCDeadband_Uls_f32	62.0900002
k_TravelXCHwAuthority_Uls_f32	0.142800003
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2704864000
target_GetSystemTime_mS_u32_CurrentTime	3437401088
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32

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Name	Input Value		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-787.109985		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1394.23596		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	6.80000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500.13989		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.39999962		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	452.359985		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3437401088	3437401088	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.40002	1950.40002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001	-2400.6001 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.3999	2600.3999 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	0	0 ± 0.000009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1394.23596	1394.23596	✔
VehDyn_MinOffset_HwDeg_M_f32	-787.109985	-787.109985	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.50222075	1.50222075 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.675000012	0.675000012 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-522.109985	-522.109985 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.108 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_m_str.MtrVel_MtrRadpS_f32	100.300003	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	186.300003	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3000002	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.3000031	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	32821	

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.5600001e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000859999971
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	206.199997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	97.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	30404
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000647999987
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00028800001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	126.300003
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	123.300003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.3000002
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.2999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.44000029e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1440.88
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000859999971
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	0
VehDyn_MaxOffset_HwDeg_M_f32	893.317993
VehDyn_MinOffset_HwDeg_M_f32	-737.333984
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000426999992
VehDyn_SLPHwAuth_Uls_M_f32	0.691999972
VehDyn_SLPHwPos_HwDeg_M_f32	-511.850006
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	32.0999985
k_TravelXCDeadband_Uls_f32	61.0600014
k_TravelXCHwAuthority_Uls_f32	0.144024998
target_DtrmnElapsedTime_mS_u32_ElapsedTime	662694400
target_GetSystemTime_mS_u32_CurrentTime	3494315776
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-780.849976
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1388.66699
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.98999

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2600.1499		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	423.769989		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.19995	1885.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.5	1885.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.09998	1991.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1440.88	1440.88 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1211.48291	-1211.48303	✓
VehDyn_MinOffset_HwDeg_M_f32	-737.333984	-737.333984	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.59626269	-1.59626257 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.691999972	0.691999972 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-511.850006	-511.850006 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.109 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	124.199997	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	196.199997	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.2000008	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.1999969	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	40437	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	13059	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	109643620	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.1001	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.569999999e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.399994	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000861999986	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	78.1999969		
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	216		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.5		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.1999969		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	10412		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3277		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000650000002		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000292000012		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.5		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	125.5		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.5		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.5		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	34738		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36612		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.3999		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.45999971e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1200.56006		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000861999986		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-898.309998		
VehDyn_MinOffset_HwDeg_M_f32	-730.650024		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000427999999		
VehDyn_SLPHwAuth_Uls_M_f32	0.708999991		
VehDyn_SLPHwPos_HwDeg_M_f32	-501.589996		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	52.4000015		
k_TravelXCDeadband_Uls_f32	60.0299988		
k_TravelXCHwAuthority_Uls_f32	0.145249993		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2303132928		
target_GetSystemTime_mS_u32_CurrentTime	463842816		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-774.590027		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1383.09802		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.19999981		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400.15991		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	62.1100006		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	463842816	463842816	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.399994	142.399994 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.3999	2800.3999 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1200.56006	-1200.56006 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-898.309998	-898.309998	✓
VehDyn_MinOffset_HwDeg_M_f32	1625.56982	1625.56995	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7905388	-14.7905378 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.708999991	0.708999991 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-501.589996	-501.589996 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.110 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	66.0999985	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	176.100006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.0999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	10.1000004	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52282	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.58000011e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	88.1999969	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	156.5	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.20000005	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	42	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16683	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22497	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000652000017	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.30005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000296000013	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	456.399994		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	32.4000015		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.3999996		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.4000015		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	37799		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	41632		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.47999987e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.200012		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	-903.302002		
VehDyn_MinOffset_HwDeg_M_f32	-723.966003		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000429000007		
VehDyn_SLPHwAuth_Uls_M_f32	0.726000011		
VehDyn_SLPHwPos_HwDeg_M_f32	-491.329987		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	10.1000004		
k_TravelXCDeadband_Uls_f32	59		
k_TravelXCHwAuthority_Uls_f32	0.146475002		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4129141760		
target_GetSystemTime_mS_u32_CurrentTime	1759885568		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-768.330017		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1377.52905		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.4000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1199		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2800.25		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	123.75		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.5	1900.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.19995	1950.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.30005	2800.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1377.52905	1377.52905	✓
VehDyn_MinOffset_HwDeg_M_f32	-768.330017	-768.330017	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7951984	17.7951984 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.726000011	0.726000011 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-491.329987	-491.329987 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.111 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	34.2999992
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	186.300003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.30000019
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	25.2999992
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.59000001e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125584798
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	94.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	166
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	12.1999998
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.199997
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000653999974
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000300000014
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	566.5
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	124.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.5
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	8366
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	51002
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657

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Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.50000002e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	95.8000031		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125584798		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	908.294006		
VehDyn_MinOffset_HwDeg_M_f32	-717.281982		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000429999985		
VehDyn_SLPHwAuth_Uls_M_f32	0.742999971		
VehDyn_SLPHwPos_HwDeg_M_f32	-481.070007		
k_HiSpdVDAuthority_Uls_f32	0.100000001		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	25.2999992		
k_TravelXCDeadband_Uls_f32	57.9700012		
k_TravelXCHwAuthority_Uls_f32	0.147699997		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2836768512		
target_GetSystemTime_mS_u32_CurrentTime	1662097408		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-762.070007		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1371.95996		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.5999999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1299.98999		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1438.64001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	56.6599998		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.59998	-1900.59998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.199997	148.199997 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	95.8000031	95.8000031 ± 0.00009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1371.95996	1371.95996	✔
VehDyn_MinOffset_HwDeg_M_f32	-762.070007	-762.070007	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.9935894	-6.9935894 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.100000001	0.100000001 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-0.540039063	-0.540000021 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.112 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	498.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	3.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.5999999e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000566000002
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	66
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	18
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.1999998
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	88
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	30404
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000655999989
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000303999986
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	66.4000015
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	116.400002
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.3999996
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	54.4000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.52000017e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.200012
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000566000002
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	913.286011
VehDyn_MinOffset_HwDeg_M_f32	-710.598022

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000430999993		
VehDyn_SLPHwAuth_Uls_M_f32	0.75999999		
VehDyn_SLPHwPos_HwDeg_M_f32	-470.809998		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	75.5		
k_TravelXCDeadband_Uls_f32	56.9399986		
k_TravelXCHwAuthority_Uls_f32	0.148925006		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3714197504		
target_GetSystemTime_mS_u32_CurrentTime	2075080192		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-755.809998		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1366.39099		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.80000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2800.93994		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230.110001		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	-1434.54895	-1434.54895	✔
VehDyn_MinOffset_HwDeg_M_f32	-710.598022	-710.598022	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.59597659	-1.59597659 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.75999999	0.75999999 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-470.809998	-470.809998 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.113 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	2.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	196.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.61000002e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000858000014
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	126.199997
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	176.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	53.2000008
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	29076
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	43868
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000658000004
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000307999988
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	600.200012
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	84.1999969
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.19999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.1999969
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	3658
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	5853
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.54000032e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000858000014
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnM_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnM_Cnt_M_Igc	0
VehDyn_MaxOffset_HwDeg_M_f32	-918.278015
VehDyn_MinOffset_HwDeg_M_f32	-703.914001
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000432000001
VehDyn_SLPHwAuth_Uls_M_f32	0.77700001
VehDyn_SLPHwPos_HwDeg_M_f32	-460.549988
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	86.0999985
k_TravelXCDeadband_Uls_f32	55.9099998
k_TravelXCHwAuthority_Uls_f32	0.150150001
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2478427648
target_GetSystemTime_mS_u32_CurrentTime	2127166208
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32

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VehDyn_Per1

Name	Input Value		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-749.549988		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1360.82202		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	8		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-147.880005		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	753.849976		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	3.20000005		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	42.4500008		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110	383750110	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.59998	-1482.59998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	-918.278015	-918.278015	✔
VehDyn_MinOffset_HwDeg_M_f32	-703.914001	-703.914001	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30075073	6.30075026 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.77700001	0.77700001 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-460.549988	-460.549988 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.114 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_m_str.MtrVel_MtrRadpS_f32	120.199997
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	206.199997
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.19999981

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	56.2000008
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.61999992e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000859999971
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	186
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.69995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00066000002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000311999989
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	10.3999996
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	64.4000015
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.4000001
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	45.4000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	29076
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	43868
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4294967295
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2160073393
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.55999975e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.799988
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000859999971
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	923.27002
VehDyn_MinOffset_HwDeg_M_f32	-697.22998
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000433000008
VehDyn_SLPHwAuth_Uls_M_f32	0.79400003
VehDyn_SLPHwPos_HwDeg_M_f32	-450.290009
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	56.0999985
k_TravelXCDeadband_Uls_f32	54.8800011
k_TravelXCHwAuthority_Uls_f32	0.151374996
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4180236544
target_GetSystemTime_mS_u32_CurrentTime	4243378688
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-743.289978
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1355.25305

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	8.19999981		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	88		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2000.34998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-5.4000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	52.9799995		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.69995	1885.69995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.09998	1885.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.09998	1988.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.799988	753.799988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1355.25305	1355.25305	✓
VehDyn_MinOffset_HwDeg_M_f32	-743.289978	-743.289978	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1969271	15.1969271 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.79400003	0.79400003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-450.290009	-450.290009 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count		Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1		✓
Autocenter_f32	1	Autocenter_f32	1		✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1		✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1		✓

Test Step 2.115 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	66.0999985	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	216.100006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	54.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53759	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18715	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.63000004e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.600006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000861999986	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	456.200012		
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	196.199997		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.2000008		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.5		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40437		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13059		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	109643620		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.40002		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000661999977		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.199997		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000315999991		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	56.1199989		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	52.1199989		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.1200008		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	78.1200027		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	32821		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	53946		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.5799999e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000861999986		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	-928.262024		
VehDyn_MinOffset_HwDeg_M_f32	-690.546021		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000433999987		
VehDyn_SLPHwAuth_Uls_M_f32	0.81099999		
VehDyn_SLPHwPos_HwDeg_M_f32	-440.029999		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	54.4000015		
k_TravelXCDeadband_Uls_f32	53.8499985		
k_TravelXCHwAuthority_Uls_f32	0.152600005		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3368466432		
target_GetSystemTime_mS_u32_CurrentTime	1050692864		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-737.030029		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1349.68396		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	8.39999962		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-75.5500031		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1900.64001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	128.880005		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.600006	456.600006 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.40002	-1887.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.199997	142.199997 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1349.68396	1349.68396	✓
VehDyn_MinOffset_HwDeg_M_f32	-737.030029	-737.030029	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.9976301	13.9976301 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.81099999	0.81099999 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-440.029999	-440.029999 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.116 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	34.2999992	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	226.300003	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.3000002	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	85.3000031	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14442	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	383750110	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.63999993e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000864000001	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	566	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	206	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	45	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2291	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58929	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	164464918	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.90002	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000663999992	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000319999992		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	86.2200012		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	34.2200012		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.2200003		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.2200012		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	40437		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	13059		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.60000005e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000864000001		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnM_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnM_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	933.254028		
VehDyn_MinOffset_HwDeg_M_f32	-683.862		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89999962		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000434999994		
VehDyn_SLPHwAuth_Uls_M_f32	0.828000009		
VehDyn_SLPHwPos_HwDeg_M_f32	-429.769989		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	85.4000015		
k_TravelXCDeadband_Uls_f32	52.8199997		
k_TravelXCHwAuthority_Uls_f32	0.153825		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	170564352		
target_GetSystemTime_mS_u32_CurrentTime	3039943680		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-730.77002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1344.11499		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	8.60000038		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1900.87		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.5		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	139.330002		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3039943680	3039943680	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.90002	-1753.90002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998	-2000.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.5	1988.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	933.254028	933.254028	✓
VehDyn_MinOffset_HwDeg_M_f32	1170.09998	1170.09998	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89987659	8.89987755 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.828000009	0.828000009 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-429.769989	-429.769989 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.117 (Repeat Count = 1) ✓

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	2.29999995
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	236.300003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3000002
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.3000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.65000005e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.6001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000866000017
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	71
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	216.199997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	78.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000666000007
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000323999993
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	75.3000031
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	18.2999992
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.3000002
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.2999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4294967295

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.6200002e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000866000017		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	938.245972		
VehDyn_MinOffset_HwDeg_M_f32	-677.177979		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8999996		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000436000002		
VehDyn_SLPHwAuth_Uls_M_f32	0.845000029		
VehDyn_SLPHwPos_HwDeg_M_f32	-419.51001		
k_HiSpdVDAuthority_Uls_f32	0.300000012		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	96.5		
k_TravelXCDeadband_Uls_f32	51.7900009		
k_TravelXCHwAuthority_Uls_f32	0.155049995		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	625668608		
target_GetSystemTime_mS_u32_CurrentTime	1316564736		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-724.51001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1338.54602		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	8.80000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.549988		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1482.84998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.60000002		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	387.440002		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.6001	2600.6001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012	935.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	938.245972	938.245972	✔
VehDyn_MinOffset_HwDeg_M_f32	758.339966	758.340027	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.897769	13.897769 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.845000029	0.845000029 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-419.51001	-419.51001 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.118 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	120.099998
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	246.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.65999995e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000867999974
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	10.1999998
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	226.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.19999981
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000668000022
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000327999995
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	98.4000015
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	88.4000015
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.3999996
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.4000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.64000036e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000867999974
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1

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VehDyn_Per1

Name	Input Value		
VehDyn_MaxOffset_HwDeg_M_f32	943.237976		
VehDyn_MinOffset_HwDeg_M_f32	-670.494019		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00043700001		
VehDyn_SLPHwAuth_Uls_M_f32	0.861999989		
VehDyn_SLPHwPos_HwDeg_M_f32	-409.25		
k_HiSpdVDAuthority_Uls_f32	0.400000006		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	32.0999985		
k_TravelXCDeadband_Uls_f32	50.7599983		
k_TravelXCHwAuthority_Uls_f32	0.156275004		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1711664384		
target_GetSystemTime_mS_u32_CurrentTime	2075080192		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-718.25		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1332.97705		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	9		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	398.850006		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.19995	2600.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.5	-888.5 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.19995	2600.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.5	-2000.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1332.97705	1332.97705	✔
VehDyn_MinOffset_HwDeg_M_f32	-718.25	-718.25	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80058718	7.80058718 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.400000006	0.400000006 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.119 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	0
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	42.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	49475
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	38708
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.67000007e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.6001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000869999989
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	56.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	236.199997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.19999981
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.2000008
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000669999979
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000331999996
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	66.1999969
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	76.1999969
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.20000005
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	10.1999998
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.65999978e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000869999989
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	0
VehDyn_MaxOffset_HwDeg_M_f32	948.22998
VehDyn_MinOffset_HwDeg_M_f32	-663.809998
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000437999988
VehDyn_SLPHwAuth_Uls_M_f32	0.879000008
VehDyn_SLPHwPos_HwDeg_M_f32	-398.98999
k_HiSpdVDAuthority_Uls_f32	0.5
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	52.0999985
k_TravelXCDeadband_Uls_f32	49.7299995
k_TravelXCHwAuthority_Uls_f32	0.157499999
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1568734208
target_GetSystemTime_mS_u32_CurrentTime	954802432
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32

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VehDyn_Per1

Name	Input Value		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-711.98999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1327.40796		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	9.19999981		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.109985		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	456.640015		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-7.30000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	489.769989		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.6001	2800.6001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	954802432	954802432	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012	425.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.30005	-2400.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	954802432	954802432	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.59998	-1482.59998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.09998	1900.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1327.40796	1327.40796	✔
VehDyn_MinOffset_HwDeg_M_f32	-711.98999	-711.98999	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20256662	3.20256662 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.879000008	0.879000008 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-398.98999	-398.98999 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.120 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	700
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	216.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.1000004
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.6001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.67999996e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000872000004
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	246.199997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.2000008
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	52
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000671999995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000335999997
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	34.0999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.0999985
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	25.1000004
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.67999993e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000872000004
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	-953.221985
VehDyn_MinOffset_HwDeg_M_f32	-657.125977
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000438999996
VehDyn_SLPHWAuth_Uls_M_f32	0.896000028
VehDyn_SLPHWPos_HwDeg_M_f32	-388.730011
k_HiSpdVDAuthority_Uls_f32	0.200000003
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	41.5400009
k_TravelXCDeadband_Uls_f32	48.7000008
k_TravelXCHwAuthority_Uls_f32	0.158724993
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4195077888
target_GetSystemTime_mS_u32_CurrentTime	2728878080
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-705.72998
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1321.83899

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	9.39999962		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1100		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500.82007		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	500.049988		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.6001	2800.6001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.40002	-2000.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.30005	2800.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918	164464918	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900	-1900 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-953.221985	-953.221985	✓
VehDyn_MinOffset_HwDeg_M_f32	1795.09009	1795.08997	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.39348936	-5.39348888 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.200000003	0.200000003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.121 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	182.5	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.5	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.5	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	53.5299988	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53759	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18715	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.69000009e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000874000019	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	75.1999969		
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	52.5		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	41.2000008		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	26195		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22037		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2138628886		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00067400001		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000339999999		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	2.20000005		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	96.1999969		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.19999981		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.1999969		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	383750110		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.600006		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.70000009e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000874000019		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	958.213989		
VehDyn_MinOffset_HwDeg_M_f32	-650.442017		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000440000003		
VehDyn_SLPHwAuth_Uls_M_f32	0.912999988		
VehDyn_SLPHwPos_HwDeg_M_f32	-378.470001		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	63.5		
k_TravelXCDeadband_Uls_f32	47.6699982		
k_TravelXCHwAuthority_Uls_f32	0.159950003		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2339853824		
target_GetSystemTime_mS_u32_CurrentTime	824746752		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-699.469971		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1316.27002		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	9.60000038		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1235.10999		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2600.13989		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	499.980011		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024	753.400024 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005	1900.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.600006	456.600006 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1283.86987	-1283.87	✓
VehDyn_MinOffset_HwDeg_M_f32	-650.442017	-650.442017	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.60091877	7.60091877 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.912999988	0.912999988 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-378.470001	-378.470001 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.122 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	202.5	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	0	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.10000038	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14442	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.599976	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.69999998e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.40002	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	1.70000007e-007	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	98	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	34.2000008	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	12.5	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	63	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43190	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3186	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2345892861	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.09998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000676000025	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.5	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000344		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	120.300003		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	106.300003		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.30000019		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	56.2999992		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	25532		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27401		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.72000024e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000875999976		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-963.205994		
VehDyn_MinOffset_HwDeg_M_f32	-643.757996		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000441000011		
VehDyn_SLPHwAuth_Uls_M_f32	0.930000007		
VehDyn_SLPHwPos_HwDeg_M_f32	-368.209991		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	88.0999985		
k_TravelXCDeadband_Uls_f32	46.6399994		
k_TravelXCHwAuthority_Uls_f32	0.161174998		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3524313344		
target_GetSystemTime_mS_u32_CurrentTime	309385728		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-693.210022		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1310.70105		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	9.80000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	120.050003		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	309385728	309385728	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400	-2400 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.40015	-1988.40002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.5	753.5 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1310.70105	1310.70105	✓
VehDyn_MinOffset_HwDeg_M_f32	-693.210022	-693.210022	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.50363731	1.50363731 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.930000007	0.930000007 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-368.209991	-368.209991 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.123 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	211.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	255
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.7100001e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000877999992
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	66.1999969
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	18.2000008
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	88.5
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	30404
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000677999982
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000348000001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	66.5
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	116.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.5
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	54.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	18715

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Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	328928812		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.6001		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.73999966e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.100006		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000877999992		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	968.197998		
VehDyn_MinOffset_HwDeg_M_f32	-637.073975		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00044199999		
VehDyn_SLPHwAuth_Uls_M_f32	0.947000027		
VehDyn_SLPHwPos_HwDeg_M_f32	-357.950012		
k_HiSpdVDAuthority_Uls_f32	0.5		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	75.4000015		
k_TravelXCDeadband_Uls_f32	45.6100006		
k_TravelXCHwAuthority_Uls_f32	0.162400007		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2108719104		
target_GetSystemTime_mS_u32_CurrentTime	2659241984		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-686.950012		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1305.13196		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.10000002		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.440002		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2800.07007		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230.039993		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002	1988.40002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2659241984	2659241984	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.40002	-1482.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2659241984	2659241984	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.6001	2600.6001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.100006	456.100006 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_MaxOffset_HwDeg_M_f32	1305.13196	1305.13196	✓
VehDyn_MinOffset_HwDeg_M_f32	-686.950012	-686.950012	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.59980774	-1.59980774 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.947000027	0.947000027 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-357.950012	-357.950012 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.124 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	543.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	199.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	45.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.72e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.69995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000880000007
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	34
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	88.1999969
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	75
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	10412
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000679999997
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.59998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000352000003
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	34.5999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.599998
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.6000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	85.5999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.75999981e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000880000007
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnT_Cnt_M_lgc	1

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VehDyn_Per1

Name	Input Value		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-973.190002		
VehDyn_MinOffset_HwDeg_M_f32	-630.390015		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000442999997		
VehDyn_SLPHwAuth_Uls_M_f32	0.963999987		
VehDyn_SLPHwPos_HwDeg_M_f32	-347.690002		
k_HiSpdVDAuthority_Uls_f32	0.699999988		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	97.0999985		
k_TravelXCDeadband_Uls_f32	44.5800018		
k_TravelXCHwAuthority_Uls_f32	0.163625002		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2894938880		
target_GetSystemTime_mS_u32_CurrentTime	2942063360		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-680.690002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1299.56299		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.39999998		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1438.08997		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.89999998		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	245.550003		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.59998	1988.59998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.69995	1991.69995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2942063360	2942063360	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.59998	1988.59998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	383750110	383750110	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.19995	-2500.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-973.190002	-973.190002	✔
VehDyn_MinOffset_HwDeg_M_f32	757.399963	757.400024	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7940731	-14.7940722 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.699999988	0.699999988 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✔

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VehDyn_Per1

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Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.125 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	9.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	146.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	0
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	78.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.72999989e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000882000022
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	2.20000005
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	76.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	97.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16683
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000682000013
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000356000004
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	2.70000005
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.699997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.6999998
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.6999969
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.6001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.77999997e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000882000022
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	978.182007
VehDyn_MinOffset_HwDeg_M_f32	-623.705994
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000444000005
VehDyn_SLPHwAuth_Uls_M_f32	0.981000006
VehDyn_SLPHwPos_HwDeg_M_f32	-337.429993

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Name	Input Value		
k_HiSpdVDAuthority_Uls_f32	0.800000012		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	86.3000031		
k_TravelXCDeadband_Uls_f32	43.5499992		
k_TravelXCHwAuthority_Uls_f32	0.164849997		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2059598336		
target_GetSystemTime_mS_u32_CurrentTime	1117112832		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-674.429993		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1293.99402		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.70000005		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-900.549988		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	753.03302		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.19999981		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	123.459999		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1117112832	1117112832	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1117112832	1117112832	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.6001	2800.6001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	540.960999	540.960999	✔
VehDyn_MinOffset_HwDeg_M_f32	-623.705994	-623.705994	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79582453	7.79582405 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.981000006	0.981000006 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-337.429993	-337.429993 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

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VehDyn_Per1

Test Step 2.126 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	533.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.74000001e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.69995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00083999979
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	120.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	86.1999969
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.19999981
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000684000028
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000360000005
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	120.800003
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146.800003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.7999992
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.7999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.80000012e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00083999979
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	983.174011
VehDyn_MinOffset_HwDeg_M_f32	-617.021973
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000445000012
VehDyn_SLPHwAuth_Uls_M_f32	0.998000026
VehDyn_SLPHwPos_HwDeg_M_f32	-327.170013
k_HiSpdVDAuthority_Uls_f32	0.899999976
k_LoSpdVDAuthority_Uls_f32	0.990000001
k_SysKinRatio_MtrDegpHwDeg_f32	42.5
k_TravelXCDeadband_Uls_f32	42.5200005
k_TravelXCHwAuthority_Uls_f32	0.166075006
target_DtrmnElapsedTime_mS_u32_ElapsedTime	800969984
target_GetSystemTime_mS_u32_CurrentTime	1736795392
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-668.169983		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1288.42505		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	800		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1988		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.39999962		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	56.8499985		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001	-2400.6001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.69995	2800.69995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1736795392	1736795392	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1288.42505	1288.42505	✔
VehDyn_MinOffset_HwDeg_M_f32	-668.169983	-668.169983	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.19759798	3.19759798 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.899999976	0.899999976 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	412.399902	412.399994 ± 0.1	✔

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.127 (Repeat Count = 1)	Name	Input Value
	DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
	GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
	Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
	VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
	VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	570.5
	VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.5
	VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	7.5
	VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.0999985
	VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	34738
	VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36612
	VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.74999991e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000885999994
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	350
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96.1999969
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	42.2000008
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000685999985
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.69995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000364000007
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	350.899994
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.899994
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.9000001
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.9000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.400024
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.82000027e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000885999994
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	0
VehDyn_MaxOffset_HwDeg_M_f32	988.166016
VehDyn_MinOffset_HwDeg_M_f32	-610.338013
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000445999991
VehDyn_SLPHwAuth_Uls_M_f32	0.978999972
VehDyn_SLPHwPos_HwDeg_M_f32	-316.910004
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0.779999971
k_SysKinRatio_MtrDegpHwDeg_f32	12.1000004
k_TravelXCDeadband_Uls_f32	41.4900017
k_TravelXCHwAuthority_Uls_f32	0.167300001
target_DtrmnElapsedTime_mS_u32_ElapsedTime	569984000
target_GetSystemTime_mS_u32_CurrentTime	3437401088
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-661.909973
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1282.85596
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.29999995
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-418.660004
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1988
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	42.9199982		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3437401088	3437401088	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005	2600.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.69995	2800.69995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3437401088	3437401088	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.400024	753.400024 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1282.85596	1282.85596	✓
VehDyn_MinOffset_HwDeg_M_f32	-661.909973	-661.909973	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.39843702	-5.39843702 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.779999971	0.779999971 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-812.100098	-812.099976 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.128 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	497.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	176.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	0
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	37799
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	41632
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.69995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.76000003e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00088800001
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	400.200012
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	106.5

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.1999998		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	12.1999998		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	13352		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	14442		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000688		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.69995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000368000008		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	400.600006		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.600006		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.5999999		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.5999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	12258		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36416		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.69995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.8399997e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000888000001		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-993.15802		
VehDyn_MinOffset_HwDeg_M_f32	-603.653992		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000446999999		
VehDyn_SLPHwAuth_Uls_M_f32	0.959999979		
VehDyn_SLPHwPos_HwDeg_M_f32	-306.649994		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.800000012		
k_SysKinRatio_MtrDegpHwDeg_f32	53.0999985		
k_TravelXCDeadband_Uls_f32	40.4599991		
k_TravelXCHwAuthority_Uls_f32	0.168524995		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3351443200		
target_GetSystemTime_mS_u32_CurrentTime	3494315776		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-655.650024		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1277.28699		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.5999999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-425		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1991.10999		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	52.0499992		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.69995	-1482.69995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.69995	-1438.69995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.69995	-1988.69995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-993.15802	-993.15802	✓
VehDyn_MinOffset_HwDeg_M_f32	-603.653992	-603.653992	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59548759	7.59548759 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.959999979	0.959999979 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-306.649994	-306.649994 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.129 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	31.5	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	186.5	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.5	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	100	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	8366	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	51002	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	109643620	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.76999992e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000890000025	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	600	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	116.199997	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	12.5	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	53	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21364	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52716	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000690000015	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.80005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00037200001	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	600.900024		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	176.899994		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	9.89999962		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	63.9000015		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	34738		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36612		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.40002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.85999985e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.0008900000025		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	-998.150024		
VehDyn_MinOffset_HwDeg_M_f32	-596.969971		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000448000006		
VehDyn_SLPHwAuth_Uls_M_f32	0.940999985		
VehDyn_SLPHwPos_HwDeg_M_f32	-296.390015		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.300000012		
k_SysKinRatio_MtrDegHwDeg_f32	86.3000031		
k_TravelXCDeadband_Uls_f32	39.4300003		
k_TravelXCHwAuthority_Uls_f32	0.169750005		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1358028288		
target_GetSystemTime_mS_u32_CurrentTime	463842816		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-649.390015		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1271.71802		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.9000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	752.679993		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-824.440002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	128.880005		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	109643620	109643620	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988	-753.799988 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	463842816	463842816	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.80005	1950.80005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	463842816	463842816	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.40002	1988.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024	753.400024 ± 0.0009	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-998.150024	-998.150024	✓
VehDyn_MinOffset_HwDeg_M_f32	175.049988	175.050003	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.49798727	1.49798727 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.300000012	0.300000012 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1577.84009	-1577.83997 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.130 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	290.5	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	196.5	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.5	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	67.5	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	3658	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	5853	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.700012	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.78000004e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000891999982	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	200.199997	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	126	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.5	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	33198	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	7778	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.5	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000691999972	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.90002	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000376000011	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	200.600006	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	186.600006	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.5999999	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	88.5999985	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.69995	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.88e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000891999982		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1003.14203		
VehDyn_MinOffset_HwDeg_M_f32	-590.286011		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000449000014		
VehDyn_SLPHwAuth_Uls_M_f32	0.921999991		
VehDyn_SLPHwPos_HwDeg_M_f32	-286.130005		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.777999997		
k_SysKinRatio_MtrDegpHwDeg_f32	96.5		
k_TravelXCDeadband_Uls_f32	38.4000015		
k_TravelXCHwAuthority_Uls_f32	0.170975		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1975593216		
target_GetSystemTime_mS_u32_CurrentTime	1759885568		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-643.130005		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1266.14905		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.20000005		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-753.880005		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2880		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	139.990005		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.700012	456.700012 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.90002	1885.90002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.69995	1991.69995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1266.14905	1266.14905	✓
VehDyn_MinOffset_HwDeg_M_f32	-643.130005	-643.130005	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60068214	-1.60068214 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.921999991	0.921999991 ± 0.004	✓

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-286.130005	-286.130005 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.131 (Repeat Count = 1) ✓

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	604.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	206.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	0
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	23667
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.80005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.78999994e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000893999997
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	457
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	136.199997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.2000008
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000693999988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.899994
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000380000012
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	457.899994
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	196.899994
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.9000001
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	75.9000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43190
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.90000015e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000893999997
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1008.13397
VehDyn_MinOffset_HwDeg_M_f32	-583.60199
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000449999992

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.902999997		
VehDyn_SLPHwPos_HwDeg_M_f32	-275.869995		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	45.0999985		
k_TravelXCDeadband_Uls_f32	37.3699989		
k_TravelXCHwAuthority_Uls_f32	0.172199994		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	910116864		
target_GetSystemTime_mS_u32_CurrentTime	1662097408		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-636.869995		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1260.57996		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.5		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1100.77002		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	453.570007		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	3.20000005		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	387.450012		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.80005	-2500.80005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.5	1950.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.899994	142.899994 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002	1988.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1260.57996	1260.57996	✔
VehDyn_MinOffset_HwDeg_M_f32	-636.869995	-636.869995	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7948837	-14.7948828 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.902999997	0.902999997 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-275.869995	-275.869995 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.132 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	554.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	216.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	60000
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	49369
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.700012
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.80000006e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000896000012
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	498.200012
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	146
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	45
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000696000003
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.90002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000384000014
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	498.299988
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	206.300003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.29999995
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	97.3000031
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	30404
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.69995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.92000031e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000896000012
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	1013.12598
VehDyn_MinOffset_HwDeg_M_f32	-576.91803
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000451
VehDyn_SLPHwAuth_Uls_M_f32	0.884000003
VehDyn_SLPHwPos_HwDeg_M_f32	-265.609985
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	78.4000015
k_TravelXCDeadband_Uls_f32	36.3400002
k_TravelXCHwAuthority_Uls_f32	0.173425004
target_DtrmnElapsedTime_mS_u32_ElapsedTime	402713344
target_GetSystemTime_mS_u32_CurrentTime	2127166208
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-630.609985
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1255.01099
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.79999995
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1235
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	657.869995
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-5.4000001
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	398.119995

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.700012	-753.700012 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.09998	1885.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024	1024	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.90002	-1900.90002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.69995	2800.69995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	597.140991	597.140991	✓
VehDyn_MinOffset_HwDeg_M_f32	-576.91803	-576.91803	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.790226	17.7902279 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.884000003	0.884000003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-265.609985	-265.609985 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.133 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	600	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	18774	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	16088	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.799988
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.80999995e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.199997
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000898000028
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	539
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	156.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.20000005
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	78.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	34738
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36612
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000698000018
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.80005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000387999986
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	539.099976
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	216.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.10000002
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	10412
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.93999973e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000898000028
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	0
VehDyn_MaxOffset_HwDeg_M_f32	1018.11798
VehDyn_MinOffset_HwDeg_M_f32	-570.234009
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000452000007
VehDyn_SLPHwAuth_Uls_M_f32	0.86500001
VehDyn_SLPHwPos_HwDeg_M_f32	-255.350006
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	96.0999985
k_TravelXCDeadband_Uls_f32	35.3100014
k_TravelXCHwAuthority_Uls_f32	0.174649999
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4178051584
target_GetSystemTime_mS_u32_CurrentTime	4243378688
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-624.349976
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1249.44202
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.0999999
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2880.05005
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.5999999

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	489.019989		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.799988	456.799988 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.199997	142.199997 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.80005	-1482.80005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1630.60803	-1630.60803	✓
VehDyn_MinOffset_HwDeg_M_f32	-570.234009	-570.234009	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.99865341	-6.99865341 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.86500001	0.86500001 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-255.350006	-255.350006 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.134 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.399994
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.399994
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.39999962
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	41.4000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25496
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	0
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2160073393
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.69995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.82000007e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000899999985
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	580.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	126

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.19999981		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	37799		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	41632		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	109643620		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.40002		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000699999975		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.80005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000391999987		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	580.299988		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.300003		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.29999995		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.2999992		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	16683		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22497		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.95999988e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000899999985		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-1023.10999		
VehDyn_MinOffset_HwDeg_M_f32	-563.549988		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000452999986		
VehDyn_SLPHwAuth_Uls_M_f32	0.846000016		
VehDyn_SLPHwPos_HwDeg_M_f32	-245.089996		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	32.2999992		
k_TravelXCDeadband_Uls_f32	34.2799988		
k_TravelXCHwAuthority_Uls_f32	0.175874993		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4077829376		
target_GetSystemTime_mS_u32_CurrentTime	1050692864		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-618.090027		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1243.87305		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.4000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.840027		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	200.645996		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.5		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	500.980011		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.69995	-2500.69995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	109643620	109643620	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.40002	1991.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.80005	1900.80005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1243.87305	1243.87305	✓
VehDyn_MinOffset_HwDeg_M_f32	-618.090027	-618.090027	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.29517412	6.29517412 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.846000016	0.846000016 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-245.089996	-245.089996 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.135 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.100006	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	176.100006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	11226	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	60000	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.80005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.82999997e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000902	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	621.099976	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	136.199997	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.10000002	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.2000008	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	26195	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22037	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	164464918	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00070199999	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.90002	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00039599998	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	621.700012		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.699997		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.69999981		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.6999998		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.199997		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.98000003e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000902		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1028.10205		
VehDyn_MinOffset_HwDeg_M_f32	-556.866028		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000453999994		
VehDyn_SLPHwAuth_Uls_M_f32	0.827000022		
VehDyn_SLPHwPos_HwDeg_M_f32	-234.830002		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	52.5		
k_TravelXCDeadband_Uls_f32	33.25		
k_TravelXCHwAuthority_Uls_f32	0.177100003		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2644937728		
target_GetSystemTime_mS_u32_CurrentTime	3039943680		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-611.830017		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1238.30396		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.69999981		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2000		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.60000002		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	499.079987		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.80005	2600.80005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3039943680	3039943680	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.09998	-2000.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.90002	-1900.90002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3039943680	3039943680	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.199997	148.199997 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M str.RelHwPosFilt2SV_HwDeg str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1238.30396	1238.30396	✓
VehDyn_MinOffset_HwDeg_M_f32	-611.830017	-611.830017	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1909513	15.1909513 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.827000022	0.827000022 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-234.830002	-234.830002 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.136 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	498.5	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	186.5	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.5	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	88.5	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	29729	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	33804	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.69995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.83999986e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000904000015	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	662.700012	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	146.5	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.19999981	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	52	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43190	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3186	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	219286216	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000704000005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.80005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000399999999	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	662.200012	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	176.199997	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.19999981	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.2000008	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	29076	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	43868	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.00000019e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000904000015		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-1033.09399		
VehDyn_MinOffset_HwDeg_M_f32	-550.182007		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000455000001		
VehDyn_SLPHwAuth_Uls_M_f32	0.808000028		
VehDyn_SLPHwPos_HwDeg_M_f32	-224.570007		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	41.0999985		
k_TravelXCDeadband_Uls_f32	32.2200012		
k_TravelXCHwAuthority_Uls_f32	0.178324997		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2212175616		
target_GetSystemTime_mS_u32_CurrentTime	1316564736		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-605.570007		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1232.73499		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.73999		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1900		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	120.410004		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.69995	-2400.69995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.80005	-1482.80005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024	1024	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.5	1950.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-1033.09399	-1033.09399	✔
VehDyn_MinOffset_HwDeg_M_f32	-550.182007	-550.182007	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.9914055	13.9914055 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.808000028	0.808000028 ± 0.004	

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-224.570007	-224.570007 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.137 (Repeat Count = 1) ✓

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	539.400024
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	196.399994
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3999996
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.4000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.85000021e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000905999972
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124.400002
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	156
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	13.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	10.8000002
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	30404
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000706000021
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.799988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000403999991
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.400002
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	186.399994
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.3999996
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.4000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.02000034e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000905999972
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1038.08606
VehDyn_MinOffset_HwDeg_M_f32	-543.497986
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000456000009

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.788999975		
VehDyn_SLPHwPos_HwDeg_M_f32	-214.309998		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	63.4000015		
k_TravelXCDeadband_Uls_f32	31.1900005		
k_TravelXCHwAuthority_Uls_f32	0.179550007		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2059598336		
target_GetSystemTime_mS_u32_CurrentTime	2075080192		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-599.309998		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1227.16602		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.30000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456.839996		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1900		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-7.30000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230.050003		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.799988	-753.799988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.19995	1885.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.09998	1885.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnM_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnM_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1038.08606	1038.08606	✔
VehDyn_MinOffset_HwDeg_M_f32	1300.68994	1300.68994	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79397392	7.79397392 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.788999975	0.788999975 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-214.309998	-214.309998 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.138 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	580.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	76.1999969
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	97.1999969
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.86000011e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000907999987
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	138.800003
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	166.600006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	19.7000008
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	25.5
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	10412
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000707999978
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.700012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000407999993
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	138.100006
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	196.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.03999976e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.199997
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000907999987
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	1043.078
VehDyn_MinOffset_HwDeg_M_f32	-536.814026
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000456999987
VehDyn_SLPHwAuth_Uls_M_f32	0.769999981
VehDyn_SLPHwPos_HwDeg_M_f32	-204.050003
k_HiSpdVDAuthority_Uls_f32	0.99000001
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	88.0999985
k_TravelXCDeadband_Uls_f32	30.1599998
k_TravelXCHwAuthority_Uls_f32	0.180775002
target_DtrmnElapsedTime_mS_u32_ElapsedTime	800969984
target_GetSystemTime_mS_u32_CurrentTime	954802432
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-593.049988
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1221.59705
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.5999999
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1199.41003
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1482.21997
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	245.020004

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	954802432	954802432	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.700012	456.700012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620	109643620	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.09998	-1887.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.199997	142.199997 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1221.59705	1221.59705	✓
VehDyn_MinOffset_HwDeg_M_f32	-593.049988	-593.049988	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.19598508	3.19598508 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.99000001	0.99000001 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.139 (Repeat Count = 1)	Name	Input Value
	DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
	GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
	Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
	VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
	VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	621.099976
	VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	86.0999985
	VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
	VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
	VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43128
	VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	43868
	VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	0
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.87e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000910000002
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86.8000031
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	176.699997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.70000005
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.8000031
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16683
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000709999993
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.69995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000411999994
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	86.3000031
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	206.300003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.2999992
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	45.2999992
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.05999992e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000910000002
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	0
VehDyn_MaxOffset_HwDeg_M_f32	-1048.06995
VehDyn_MinOffset_HwDeg_M_f32	-530.130005
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000457999995
VehDyn_SLPHwAuth_Uls_M_f32	0.750999987
VehDyn_SLPHwPos_HwDeg_M_f32	-193.789993
k_HiSpdVDAuthority_Uls_f32	0.889999986
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	75.3000031
k_TravelXCDeadband_Uls_f32	29.1299992
k_TravelXCHwAuthority_Uls_f32	0.181999996
target_DtrmnElapsedTime_mS_u32_ElapsedTime	569984000
target_GetSystemTime_mS_u32_CurrentTime	2728878080
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-586.789978
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1216.02795
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.9000001
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1199.14001
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.840027
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	123.059998		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	0	0 ± 0.000009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.69995	-1482.69995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.19995	-1753.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1216.02795	1216.02795	✓
VehDyn_MinOffset_HwDeg_M_f32	-586.789978	-586.789978	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.40019512	-5.40019512 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.750999987	0.750999987 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-193.789993	-193.789993 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.140 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.200012	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	96.1999969	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.20000005	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	42.2000008	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53759	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	53946	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1440.88	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.87999989e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.299988	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000912000018	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	44.4000015	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	186.199997	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.5		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	56.4000015		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	5235		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27074		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2138628886		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000712000008		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.799988		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000415999995		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	44.0999985		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	216.100006		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	78.0999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	38868		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	57944		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.099976		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.08000007e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000912000018		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1053.06201		
VehDyn_MinOffset_HwDeg_M_f32	-523.445984		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000459000003		
VehDyn_SLPHwAuth_Uls_M_f32	0.731999993		
VehDyn_SLPHwPos_HwDeg_M_f32	-183.529999		
k_HiSpdVDAuthority_Uls_f32	0.75999999		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	97.5		
k_TravelXCDeadband_Uls_f32	28.1000004		
k_TravelXCHwAuthority_Uls_f32	0.183225006		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1720406272		
target_GetSystemTime_mS_u32_CurrentTime	824746752		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-580.530029		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1210.45898		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-6.19999981		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1299		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	456.963989		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	56.8800011		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918	164464918	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1440.88	1440.88 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.299988	753.299988 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.799988	-753.799988 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216	219286216	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.099976	935.099976 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	753.494995	753.494995	✓
VehDyn_MinOffset_HwDeg_M_f32	-523.445984	-523.445984	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59364414	7.59364414 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.75999999	0.75999999 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1210.76392	1210.76404 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.141 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	498.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	106.25
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1200.56006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.88999979e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000913999975
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	96.6999969
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	196.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	9.89999962
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	54
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000714000023
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.799988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000419999997
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	96.4000015		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	226.399994		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.39999962		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.4000015		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53970		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52282		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.200012		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.10000022e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000913999975		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1058.05396		
VehDyn_MinOffset_HwDeg_M_f32	-516.762024		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00046000001		
VehDyn_SLPHwAuth_Uls_M_f32	0.713		
VehDyn_SLPHwPos_HwDeg_M_f32	-173.270004		
k_HiSpdVDAuthority_Uls_f32	0.340000004		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	86.0999985		
k_TravelXCDeadband_Uls_f32	27.0699997		
k_TravelXCHwAuthority_Uls_f32	0.184450001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2659241984		
target_GetSystemTime_mS_u32_CurrentTime	309385728		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-574.27002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1204.89001		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-6.5		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-147.649994		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	42.7700005		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110	383750110	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1200.56006	-1200.56006 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	309385728	309385728	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.799988	456.799988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	309385728	309385728	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.200012	-888.200012 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1058.05396	1058.05396	✓
VehDyn_MinOffset_HwDeg_M_f32	1925.72998	1925.72998	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.49629378	1.49629378 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.713	0.713 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-173.270004	-173.270004 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.142 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	9.10000038	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	226.100006	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	53.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52282	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	274107514	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.13989	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00091599999	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	100.5	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	206	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.4000001	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	85.5	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2291	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58929	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00071599998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000423999998	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	100.300003	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	236.300003	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.30000019	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.2999992	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	328928812	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.5	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.11999965e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00091599999		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-1063.04602		
VehDyn_MinOffset_HwDeg_M_f32	-510.078003		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000460999998		
VehDyn_SLPHwAuth_Uls_M_f32	0.694000006		
VehDyn_SLPHwPos_HwDeg_M_f32	-163.009995		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	96.4000015		
k_TravelXCDeadband_Uls_f32	26.0400009		
k_TravelXCHwAuthority_Uls_f32	0.185674995		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2942063360		
target_GetSystemTime_mS_u32_CurrentTime	2659241984		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-568.01001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1199.32104		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-6.80000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	88.8799973		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2600		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.89999998		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	52.4399986		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2659241984	2659241984	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.13989	2600.13989 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005	1988.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005	2600.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.5	425.5 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1199.32104	1199.32104	✔
VehDyn_MinOffset_HwDeg_M_f32	-568.01001	-568.01001	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60240626	-1.60240626 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.694000006	0.694000006 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-163.009995	-163.009995 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.143 (Repeat Count = 1) ✓

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	533.599976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	236.600006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.5999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.5999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125584798
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000918000005
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124.400002
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	216
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.80000019
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000717999996
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000427999999
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.099998
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	246.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.4099998
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2160073393
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.1399998e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000918000005
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1068.03796
VehDyn_MinOffset_HwDeg_M_f32	-503.394012
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000461999996

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.675000012		
VehDyn_SLPHwPos_HwDeg_M_f32	-152.75		
k_HiSpdVDAuthority_Uls_f32	0.670000017		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	32.0999985		
k_TravelXCDeadband_Uls_f32	25.0100002		
k_TravelXCHwAuthority_Uls_f32	0.186900005		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1117112832		
target_GetSystemTime_mS_u32_CurrentTime	2942063360		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-561.75		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1193.75195		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-7.0999999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-75.9899979		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2000		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.19999981		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	128.020004		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.19995	-2500.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2942063360	2942063360	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2942063360	2942063360	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.30005	-2000.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_HiSpdLearnM_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnM_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1193.75195	1193.75195	✔
VehDyn_MinOffset_HwDeg_M_f32	-561.75	-561.75	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7963247	-14.7963247 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.675000012	0.675000012 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-152.75	-152.75 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

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VehDyn_Per1

Test Step 2.144 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	290.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	32.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.87999989e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00092000002
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	126.400002
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	42.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.4000001
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	63.2999992
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000720000011
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432000001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	126.199997
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	88.1999969
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.20000005
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	75.1999969
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	10412
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.15999995e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00092000002
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	1073.03003
VehDyn_MinOffset_HwDeg_M_f32	-496.709991
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000463000004
VehDyn_SLPHwAuth_Uls_M_f32	0.656000018
VehDyn_SLPHwPos_HwDeg_M_f32	-142.490005
k_HiSpdVDAuthority_Uls_f32	0.119999997
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	86.3000031
k_TravelXCDeadband_Uls_f32	23.9799995
k_TravelXCHwAuthority_Uls_f32	0.188124999
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1050692864
target_GetSystemTime_mS_u32_CurrentTime	4243378688
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-555.48999
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1188.18298
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-7.4000001
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.640015
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	489.024994

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1073.03003	1073.03003	✓
VehDyn_MinOffset_HwDeg_M_f32	198.150024	198.149994	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79298735	7.79298687 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.119999997	0.119999997 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.145 (Repeat Count = 1)	✓
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	570.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	246.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	383750110

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000387000007
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000921999977
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	78.8000031
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	226.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.2999992
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000722000026
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000436000002
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	78.0999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	52.0999985
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.1800001e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000921999977
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	1078.02197
VehDyn_MinOffset_HwDeg_M_f32	-490.026001
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000464000012
VehDyn_SLPHwAuth_Uls_M_f32	0.637000024
VehDyn_SLPHwPos_HwDeg_M_f32	-132.229996
k_HiSpdVDAuthority_Uls_f32	0.75999999
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	52.5
k_TravelXCDeadband_Uls_f32	22.9500008
k_TravelXCHwAuthority_Uls_f32	0.189349994
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1736795392
target_GetSystemTime_mS_u32_CurrentTime	1117112832
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-549.22998
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1182.61401
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-7.69999981
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	159.990005
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1900
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.39999962

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	139.063995		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1117112832	1117112832	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005	2800.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005	1900.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-717.385986	-717.385986	✓
VehDyn_MinOffset_HwDeg_M_f32	-490.026001	-490.026001	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7880936	17.7880936 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.75999999	0.75999999 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1443.80005	1443.80005 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.146 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	497.299988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	123.300003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.2999992
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	45.2999992
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000387999986
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000923999993
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	88.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	236.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.60000002
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	52.5

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.35999		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000723999983		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000440000003		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	88.3000031		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	34.2999992		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.3000002		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	63.2999992		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43190		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3186		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.20000025e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.599976		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000923999993		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1083.01404		
VehDyn_MinOffset_HwDeg_M_f32	-483.34201		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000464999999		
VehDyn_SLPHwAuth_Uls_M_f32	0.617999971		
VehDyn_SLPHwPos_HwDeg_M_f32	-121.970001		
k_HiSpdVDAuthority_Uls_f32	0.779999971		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	10.1000004		
k_TravelXCDeadband_Uls_f32	21.9200001		
k_TravelXCHwAuthority_Uls_f32	0.190575004		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3437401088		
target_GetSystemTime_mS_u32_CurrentTime	1736795392		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-542.969971		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1177.04504		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1100		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1900.52002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	387.100006		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1736795392	1736795392	✓

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.35999	-1438.35999 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.19995	-2500.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1736795392	1736795392	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.599976	753.599976 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1177.04504	1177.04504	✓
VehDyn_MinOffset_HwDeg_M_f32	-542.969971	-542.969971	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7.00023937	-7.00023937 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.617999971	0.617999971 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-121.970001	-121.970001 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.147 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	31.3600006	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	125.300003	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.2999992	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	78.3000031	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	29076	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18715	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000388999993	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	0	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000926000008	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	94.5	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	246.399994	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.20000005	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	41.0999985	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39056	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3382212733	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000725999998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000444000005	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	94.4000015		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	18.3999996		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.3999996		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	88.4000015		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	30404		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	30349		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.21999968e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000926000008		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1088.00598		
VehDyn_MinOffset_HwDeg_M_f32	-476.65799		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000465999998		
VehDyn_SLPHwAuth_Uls_M_f32	0.598999977		
VehDyn_SLPHwPos_HwDeg_M_f32	-111.709999		
k_HiSpdVDAuthority_Uls_f32	0.233999997		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	25.1000004		
k_TravelXCDeadband_Uls_f32	20.8899994		
k_TravelXCHwAuthority_Uls_f32	0.191799998		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3494315776		
target_GetSystemTime_mS_u32_CurrentTime	3437401088		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-536.710022		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1171.47595		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8.30000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154.740005		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1482		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	398.145599		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	0	0 ± 0.000009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3437401088	3437401088	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.19995	2600.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M str.RelHwPosFilt2SV_HwDeg str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1171.47595	1171.47595	✓
VehDyn_MinOffset_HwDeg_M_f32	-536.710022	-536.710022	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.29330063	6.29330015 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.233999997	0.233999997 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.148 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	290.100006	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	32.0999985	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	32821	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14442	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000390000001	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1440.88	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000928000023	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	126.400002	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	42.7999992	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.5	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	63.4000015	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	25532	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27401	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000728000014	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000448000006	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	126.5	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	88.5	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.5	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	75.5	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	10412	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3277	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.23999983e-005	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000928000023	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1092.99805		
VehDyn_MinOffset_HwDeg_M_f32	-469.973999		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000467000005		
VehDyn_SLPHwAuth_Uls_M_f32	0.579999983		
VehDyn_SLPHwPos_HwDeg_M_f32	-101.449997		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	86.0999985		
k_TravelXCDeadband_Uls_f32	19.8600006		
k_TravelXCHwAuthority_Uls_f32	0.193024993		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	463842816		
target_GetSystemTime_mS_u32_CurrentTime	3494315776		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-530.450012		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1165.90698		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8.60000038		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.820007		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	489		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1440.88	1440.88 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002	1988.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1092.99805	1092.99805	✔
VehDyn_MinOffset_HwDeg_M_f32	223.369995	223.369995	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.7923665	7.79236603 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.579999983	0.579999983 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-101.449997	-101.449997 ± 0.1	✔

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VehDyn_Per1

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.149 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	604.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	124.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.40002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000391000009
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1200.56006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00092999998
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124.400002
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	124.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.5999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	88.9000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.59998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000730000029
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000452000007
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.699997
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	76.6999969
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.69999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	97.6999969
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	16683
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.25999998e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00092999998
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	1097.98999
VehDyn_MinOffset_HwDeg_M_f32	-463.290009
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000468000013

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.56099999		
VehDyn_SLPHwPos_HwDeg_M_f32	-91.1900024		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	56.2999992		
k_TravelXCDeadband_Uls_f32	18.8299999		
k_TravelXCHwAuthority_Uls_f32	0.194250003		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1759885568		
target_GetSystemTime_mS_u32_CurrentTime	463842816		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-524.190002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1160.33801		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8.89999962		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253.87		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	456.269989		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-7.30000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	500		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	463842816	463842816	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.40002	1988.40002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1200.56006	-1200.56006 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.59998	1988.59998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988	456.299988 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	704.067993	704.067993	✔
VehDyn_MinOffset_HwDeg_M_f32	-463.290009	-463.290009	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.19427657	3.19427657 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.56099999	0.56099999 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-91.1900024	-91.1900024 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.150 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	554.200012
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	84.1999969
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.19999981
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.2000008
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000391999987
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000931999995
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	456.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	35.7000008
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.3999996
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	75.5
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000731999986
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000456000009
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	456.700012
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.8000031
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.80000019
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.8000031
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.28000014e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000931999995
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1102.98206
VehDyn_MinOffset_HwDeg_M_f32	-456.605988
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000468999991
VehDyn_SLPHwAuth_Uls_M_f32	0.541999996
VehDyn_SLPHwPos_HwDeg_M_f32	-80.9300003
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	54.5
k_TravelXCDeadband_Uls_f32	17.7999992
k_TravelXCHwAuthority_Uls_f32	0.195474997
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1662097408
target_GetSystemTime_mS_u32_CurrentTime	1759885568
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-517.929993
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1154.76904
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.19999981
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.869995
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	499.440002

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1154.76904	1154.76904	✓
VehDyn_MinOffset_HwDeg_M_f32	-517.929993	-517.929993	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.40177107	-5.40177107 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.541999996	0.541999996 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-80.9300003	-80.9300003 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.151 (Repeat Count = 1)	✓
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	600.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	64.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	41.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	38868

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	38708
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000392999995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000934000011
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	566
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	75.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.7999992
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	97.8000031
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000734000001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00046000001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	566.799988
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	96.6999969
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.69999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.7000008
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.80005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.30000029e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000934000011
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	1107.974
VehDyn_MinOffset_HwDeg_M_f32	-449.921997
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000469999999
VehDyn_SLPHwAuth_Uls_M_f32	0.523000002
VehDyn_SLPHwPos_HwDeg_M_f32	-70.6699982
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegHwDeg_f32	41.0999985
k_TravelXCDeadband_Uls_f32	16.7700005
k_TravelXCHwAuthority_Uls_f32	0.196700007
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2127166208
target_GetSystemTime_mS_u32_CurrentTime	1662097408
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-511.670013
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1149.19995
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.5
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.409973

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2600.09009		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	120		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.59998	1988.59998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.30005	-2400.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.80005	2600.80005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.30005	2800.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1149.19995	1149.19995	✓
VehDyn_MinOffset_HwDeg_M_f32	-511.670013	-511.670013	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59202671	7.59202719 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.523000002	0.523000002 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-70.6699982	-70.6699982 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.152 (Repeat Count = 1)		
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	554.5	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	84.5	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.5	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.5	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	2291	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7778	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000394000002	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.0009360000026	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	456.200012	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	35.7999992	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.3999996		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	75.8000031		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	33198		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	7778		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.5		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000736000016		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000464000012		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	456.899994		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.8000031		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.80000019		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.8000031		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.31999971e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000936000026		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1112.96594		
VehDyn_MinOffset_HwDeg_M_f32	-443.238007		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000471000007		
VehDyn_SLPHwAuth_Uls_M_f32	0.504000008		
VehDyn_SLPHwPos_HwDeg_M_f32	-60.4099998		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	54.0999985		
k_TravelXCDeadband_Uls_f32	15.7399998		
k_TravelXCHwAuthority_Uls_f32	0.197925001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1050692864		
target_GetSystemTime_mS_u32_CurrentTime	4243378688		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-505.410004		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1143.63098		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.80000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500.04004		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	499.410004		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1112.96594	1112.96594	✓
VehDyn_MinOffset_HwDeg_M_f32	1994.63	1994.63	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.40206099	-5.40206099 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.504000008	0.504000008 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-60.4099998	-60.4099998 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.153 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.399994	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.4000015	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3999996	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.3999	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00039500001	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.59998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000937999983	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	159	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	68.1999969	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.7999992	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.6999969	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000737999973	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000468000013	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	412.799988		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	106.900002		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.8999996		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.8999996		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.80005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.33999987e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000937999983		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1117.95801		
VehDyn_MinOffset_HwDeg_M_f32	-436.553986		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000472000014		
VehDyn_SLPHwAuth_Uls_M_f32	0.485000014		
VehDyn_SLPHwPos_HwDeg_M_f32	-50.1500015		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	63.5		
k_TravelXCDeadband_Uls_f32	14.71		
k_TravelXCHwAuthority_Uls_f32	0.199149996		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4243378688		
target_GetSystemTime_mS_u32_CurrentTime	2127166208		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-499.149994		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1138.06201		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.4000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456.359985		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400.07007		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.3999	2800.3999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.59998	1991.59998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.80005	-2400.80005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1117.95801	1117.95801	✓
VehDyn_MinOffset_HwDeg_M_f32	1900.92004	1900.92004	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.49718106	1.49718106 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.485000014	0.485000014 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-50.1500015	-50.1500015 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.154 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.100006	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	34.0999985	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.1000004	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	88.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18715	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4294967295	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000395999989	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000939999989	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	10.1999998	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	45	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.1700001	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	42.7999992	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	29076	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	43868	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.5	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000739999989	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000472000014	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	10.3000002	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	116.300003	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.3000002	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.2999992	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21364	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52716	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.36000002e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.59998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000939999998		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1122.94995		
VehDyn_MinOffset_HwDeg_M_f32	-429.869995		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000472999993		
VehDyn_SLPHwAuth_Uls_M_f32	0.465999991		
VehDyn_SLPHwPos_HwDeg_M_f32	-39.8899994		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	88.3000031		
k_TravelXCDeadband_Uls_f32	13.6800003		
k_TravelXCHwAuthority_Uls_f32	0.200375006		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1050692864		
target_GetSystemTime_mS_u32_CurrentTime	4243378688		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-492.890015		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1132.49304		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1199		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2800.06006		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	245		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482	-1482 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005	1988.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.59998	1950.59998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1132.49304	1132.49304	✔
VehDyn_MinOffset_HwDeg_M_f32	-492.890015	-492.890015	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60021544	-1.60021544 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.465999991	0.465999991 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-39.8899994	-39.8899994 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.155 (Repeat Count = 1) ✓

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	9.39999962
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	18.3999996
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.3999996
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.4000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	255468
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.400024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000396999996
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.6001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000942000013
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	56
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96.1999969
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.06999969
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	12.3999996
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	109643620
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000742000004
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000475999987
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	56.0999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.099998
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.80005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.38000017e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.80005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000942000013
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1127.94202
VehDyn_MinOffset_HwDeg_M_f32	-423.186005
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000474

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.446999997		
VehDyn_SLPHwPos_HwDeg_M_f32	-29.6299992		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	96.0999985		
k_TravelXCDeadband_Uls_f32	12.6499996		
k_TravelXCHwAuthority_Uls_f32	0.2016		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3039943680		
target_GetSystemTime_mS_u32_CurrentTime	1050692864		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-486.630005		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1126.92395		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	5		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1299.41003		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1438.06995		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.89999998		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	387.73999		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	255468	255468	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.400024	-753.400024 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.6001	2800.6001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.19995	1950.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.40002	1991.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.80005	-1438.80005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.80005	1885.80005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1126.92395	1126.92395	✔
VehDyn_MinOffset_HwDeg_M_f32	-486.630005	-486.630005	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7906246	-14.7906246 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.446999997	0.446999997 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-29.6299992	-29.6299992 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.156 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	533.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	88.4000015
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.47000003
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	10.3999996
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36612
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.600006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000398000004
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000944000029
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86.1999969
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	129
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.80000019
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	53.2999992
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.25
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000744000019
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000479999988
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	86.1999969
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.199997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.2000008
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.1999969
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.40000032e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.600006
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000944000029
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	1132.93396
VehDyn_MinOffset_HwDeg_M_f32	-416.502014
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000475000008
VehDyn_SLPHwAuth_Uls_M_f32	0.428000003
VehDyn_SLPHwPos_HwDeg_M_f32	-19.3700008
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	32.0999985
k_TravelXCDeadband_Uls_f32	11.6199999
k_TravelXCHwAuthority_Uls_f32	0.202824995
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1316564736
target_GetSystemTime_mS_u32_CurrentTime	3039943680
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-480.369995
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1121.35498
target_VehDyn_Per1_HwTorque_HwNm_f32.value	5.55999994
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-147
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	753.640015
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.19999981
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	398

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3039943680	3039943680	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.600006	456.600006 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	164464918	164464918	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.25	1885.25 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.40002	-2000.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.5	753.5 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.600006	142.600006 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	367.714966	367.714996	✓
VehDyn_MinOffset_HwDeg_M_f32	-416.502014	-416.502014	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7943058	17.7943077 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.428000003	0.428000003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-19.3700008	-19.3700008 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.157 (Repeat Count = 1)	Name	Input Value
	DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
	GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
	Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
	VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
	VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	570.02002
	VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	76.1999969
	VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.19999981
	VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	25.2000008
	VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	49475
	VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22037
	VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4294967295
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000399000011
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.59998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000945999986
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	75.1999969
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	88.8000031
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.0300007
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.9000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000745999976
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000483999989
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	75.4000015
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146.3999994
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.3999996
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	45.4000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.41999975e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.80005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000945999986
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	0
VehDyn_MaxOffset_HwDeg_M_f32	1137.92603
VehDyn_MinOffset_HwDeg_M_f32	-409.817993
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000475999987
VehDyn_SLPHwAuth_Uls_M_f32	0.409000009
VehDyn_SLPHwPos_HwDeg_M_f32	-9.10999966
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	52.2999992
k_TravelXCDeadband_Uls_f32	10.5900002
k_TravelXCHwAuthority_Uls_f32	0.204050004
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2075080192
target_GetSystemTime_mS_u32_CurrentTime	1316564736
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-474.109985
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1115.78601
target_VehDyn_Per1_HwTorque_HwNm_f32.value	6.11999989
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	88.8700027
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1988.81995
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.39999962

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	489.450012		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.3999	-2500.3999 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.59998	1950.59998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.09998	-1887.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.40002	1900.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.59998	-1988.59998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.80005	-1900.80005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1137.92603	1137.92603	✓
VehDyn_MinOffset_HwDeg_M_f32	1514.70996	1514.70996	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.99383116	-6.99383116 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.409000009	0.409000009 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-9.10999966	-9.10999966 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.158 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	497.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	86.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	255468
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.599976
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00039999999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000948000001
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	98.8000031
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	76.0999985

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.04		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.4000015		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38868		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57944		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	274107514		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000747999991		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000487999991		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	98.5		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.5		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.5		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	78.5		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	34738		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36612		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.40002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.4399999e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.59998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000948000001		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1142.91797		
VehDyn_MinOffset_HwDeg_M_f32	-403.134003		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000476999994		
VehDyn_SLPHwAuth_Uls_M_f32	0.389999986		
VehDyn_SLPHwPos_HwDeg_M_f32	1.14999998		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	10.1000004		
k_TravelXCDeadband_Uls_f32	9.56000042		
k_TravelXCHwAuthority_Uls_f32	0.205274999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	954802432		
target_GetSystemTime_mS_u32_CurrentTime	2075080192		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-467.850006		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1110.21704		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	6.67999983		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-75.4400024		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1988.28003		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.90000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	500		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	255468	255468	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.599976	-753.599976 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.09998	1885.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2075080192	2075080192	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1750.50134	-1750.50134 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.40002	1988.40002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.59998	-1482.59998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1110.21704	1110.21704	✓
VehDyn_MinOffset_HwDeg_M_f32	-467.850006	-467.850006	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30041265	6.30041265 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.389999986	0.389999986 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1.14999998	1.14999998 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓	
GetSystemTime_mS_u32	2	GetSystemTime_mS_u32	2	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.159 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	31.2999992	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	96.3000031	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq1.1	VehDyn_Per19992	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	66.5999985		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.599998		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.5999999		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.5999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	37799		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	41632		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.59998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.46000005e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.80005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000950000016		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1147.91003		
VehDyn_MinOffset_HwDeg_M_f32	-396.450012		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000478000002		
VehDyn_SLPHwAuth_Uls_M_f32	0.370999992		
VehDyn_SLPHwPos_HwDeg_M_f32	11.4099998		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	25.2999992		
k_TravelXCDeadband_Uls_f32	8.52999973		
k_TravelXCHwAuthority_Uls_f32	0.206499994		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2728878080		
target_GetSystemTime_mS_u32_CurrentTime	954802432		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-461.589996		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1104.64795		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.23999977		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1991.93994		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	75		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.399994	456.399994 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.300003	142.300003 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	954802432	954802432	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012	935.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620	109643620	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.59998	1991.59998 ± 0.009	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.80005	1900.80005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1104.64795	1104.64795	✓
VehDyn_MinOffset_HwDeg_M_f32	-461.589996	-461.589996	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1961098	15.1961098 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.370999992	0.370999992 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	11.4099998	11.4099998 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.160 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	290.299988	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	106.300003	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.3000002	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	54.2999992	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3277	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.6001	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000402000005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000951999973	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	34.2999992	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96.8000031	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.0500002	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	78.5	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	383750110	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.299988	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000752000022	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000495999993	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	34.0999985	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.100006	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.10000002	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.0999985	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.40002	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.4800002e-005	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.59998	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000951999973		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1152.90198		
VehDyn_MinOffset_HwDeg_M_f32	-389.765991		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000479000009		
VehDyn_SLPHwAuth_Uls_M_f32	0.351999998		
VehDyn_SLPHwPos_HwDeg_M_f32	21.6700001		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	86.3000031		
k_TravelXCDeadband_Uls_f32	7.5		
k_TravelXCHwAuthority_Uls_f32	0.207725003		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	824746752		
target_GetSystemTime_mS_u32_CurrentTime	2728878080		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-455.329987		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1099.07898		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	7.80000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.440002		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1987.75		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	99.9639969		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.6001	-2500.6001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.299988	-888.299988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.40002	-2000.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.59998	-1900.59998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-888.671021	-888.671021	✔
VehDyn_MinOffset_HwDeg_M_f32	-389.765991	-389.765991	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.997057	13.997057 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✔

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VehDyn_Per1

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.161 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.600006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.5999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.6000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.5999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000407000014
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000961999991
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	159.300003
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	68.8000031
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.7999992
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.5999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000761999981
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000515999971
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	412.5
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	106.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.5
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.58000024e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000961999991
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	-1157.89404
VehDyn_MinOffset_HwDeg_M_f32	-383.082001
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000483999989
VehDyn_SLPHwAuth_Uls_M_f32	0.333000004
VehDyn_SLPHwPos_HwDeg_M_f32	31.9300003

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Name	Input Value		
k_HiSpdVDAuthority_Uls_f32	0.899999976		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	63.2000008		
k_TravelXCDeadband_Uls_f32	6.46999979		
k_TravelXCHwAuthority_Uls_f32	0.208949998		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3304439296		
target_GetSystemTime_mS_u32_CurrentTime	824746752		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-449.070007		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1093.51001		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	8.35999966		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400.34009		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.3999	2800.3999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005	2800.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.6001	-2400.6001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.40002	-1438.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	-1157.89404	-1157.89404	✔
VehDyn_MinOffset_HwDeg_M_f32	1951.27002	1951.27002	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.50328505	1.50328505 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.899999976	0.899999976 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-412.140137	-412.140015 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.162 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime

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Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	604.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	116.099998
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	85.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.6001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403000013
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000953999988
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	2.25
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	106.699997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.25
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.8000031
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000753999979
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000500000024
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	2.20000005
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146.199997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.19999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.2000008
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43190
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.50000036e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000953999988
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	1162.88599
VehDyn_MinOffset_HwDeg_M_f32	-376.39801
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89999962
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000479999988
VehDyn_SLPHwAuth_Uls_M_f32	0.31400001
VehDyn_SLPHwPos_HwDeg_M_f32	42.1899986
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	56.0999985
k_TravelXCDeadband_Uls_f32	5.44000006
k_TravelXCHwAuthority_Uls_f32	0.210174993
target_DtrmnElapsedTime_mS_u32_ElapsedTime	309385728
target_GetSystemTime_mS_u32_CurrentTime	824746752
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32

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Name	Input Value		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-442.809998		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1087.94104		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	8.92000008		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253.14001		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	458.98999		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.90000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	87		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.6001	2600.6001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012	425.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	824746752	824746752	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.40002	1900.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.59998	-1482.59998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	1087.94104	1087.94104	✔
VehDyn_MinOffset_HwDeg_M_f32	-442.809998	-442.809998	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.90007687	8.90007687 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.31400001	0.31400001 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	42.1899986	42.1899986 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403999991
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000956000003
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	120.400002
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	116.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.4000001
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.25
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423.299988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000755999994
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000503999996
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	120.599998
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.600006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	13.6000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	10.6000004
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	30404
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.51999978e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.400024
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000956000003
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	-1167.87805
VehDyn_MinOffset_HwDeg_M_f32	-369.713989
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8999996
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000480999995
VehDyn_SLPHwAuth_Uls_M_f32	0.294999987
VehDyn_SLPHwPos_HwDeg_M_f32	52.4500008
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	54.0999985
k_TravelXCDeadband_Uls_f32	4.40999985
k_TravelXCHwAuthority_Uls_f32	0.211400002
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4164171008
target_GetSystemTime_mS_u32_CurrentTime	309385728
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-436.549988
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1082.37195
target_VehDyn_Per1_HwTorque_HwNm_f32.value	9.47999954
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1999.59998
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.79999995
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	127.450996		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423.299988	-423.299988 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.59998	-1900.59998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.400024	-753.400024 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1082.37195	1082.37195	✓
VehDyn_MinOffset_HwDeg_M_f32	-436.549988	-436.549988	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8978577	13.8978577 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1246.19995	-1246.19995 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.164 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.399994	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.4000015	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3999996	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.4000015	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.1001	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000407000014	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.09998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000961999991	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	159	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	68.3000031	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.7999992	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000761999981		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000515999971		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadps_f32	412.700012		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	106.699997		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.6999998		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.6999998		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.58000024e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000961999991		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1172.87		
VehDyn_MinOffset_HwDeg_M_f32	-363.029999		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000483999989		
VehDyn_SLPHwAuth_Uls_M_f32	0.275999993		
VehDyn_SLPHwPos_HwDeg_M_f32	62.7099991		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.899999976		
k_SysKinRatio_MtrDegpHwDeg_f32	63.3199997		
k_TravelXCDeadband_Uls_f32	3.38000011		
k_TravelXCHwAuthority_Uls_f32	0.212624997		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3304439296		
target_GetSystemTime_mS_u32_CurrentTime	824746752		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadps_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadps_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-430.290009		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1076.80298		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.11000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadps_f32.value	-456		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400.04004		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	219286216	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.09998	1991.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1172.87	1172.87	✓
VehDyn_MinOffset_HwDeg_M_f32	1969.75	1969.75	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.49870157	1.49870157 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.275999993	0.275999993 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	62.7099991	62.7099991 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.165 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	554.099976	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	84.0999985	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	2291	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7778	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000404999999	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000958000019	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	456	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	35.7999992	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.3999996	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	75.4499969	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	33198	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	7778	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000758000009	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.59998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000508000026	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	456.799988		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.8000031		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.80000019		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.8000031		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.53999993e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000958000019		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1177.86206		
VehDyn_MinOffset_HwDeg_M_f32	-369.75		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000482000003		
VehDyn_SLPHwAuth_Uls_M_f32	0.256999999		
VehDyn_SLPHwPos_HwDeg_M_f32	72.9700012		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	54.2999992		
k_TravelXCDeadband_Uls_f32	2.3499999		
k_TravelXCHwAuthority_Uls_f32	0.213850006		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	437658624		
target_GetSystemTime_mS_u32_CurrentTime	954802432		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-424.029999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1071.23401		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.22000003		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.109985		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500.06006		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	499.220001		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.59998	-1438.59998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995	-2500.19995 ± 0.009	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1177.86206	1177.86206	✓
VehDyn_MinOffset_HwDeg_M_f32	2076.03003	2076.03003	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.39797401	-5.39797354 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.256999999	0.256999999 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	72.9700012	72.9700012 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.166 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	600.200012
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	64.1999969
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.2000008
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	41.2000008
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	38708
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000406000006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000959999976
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	566.799988
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	75.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.7999992
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	97
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000760000024
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.599976
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000511999999
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	566.900024
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	96.9000015
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.89999962
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.9000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.56000009e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000959999976
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1182.854		
VehDyn_MinOffset_HwDeg_M_f32	-376.470001		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000483000011		
VehDyn_SLPHwAuth_Uls_M_f32	0.238000005		
VehDyn_SLPHwPos_HwDeg_M_f32	83.2300034		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	41.0999985		
k_TravelXCDeadband_Uls_f32	1.32000005		
k_TravelXCHwAuthority_Uls_f32	0.215075001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3941357312		
target_GetSystemTime_mS_u32_CurrentTime	2728878080		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-417.769989		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1065.66504		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.33000004		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.440002		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2600.01001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	120.410004		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.09998	1988.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.599976	753.599976 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.19995	2600.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1065.66504	1065.66504	✓
VehDyn_MinOffset_HwDeg_M_f32	-417.769989	-417.769989	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59575272	7.59575272 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.238000005	0.238000005 ± 0.004	✓
target_VehDvn_Per1_SensorlessHwPos_HwDeg_f32.value	83.2300034	83.2300034 ± 0.1	✓

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VehDyn_Per1

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Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.167 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.300003
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.2999992
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3000002
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.2999992
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000407000014
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000961999991
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	159
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	68.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.7999992
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.9000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000761999981
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000515999971
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	412.5
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	106.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.5
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.58000024e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000961999991
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1187.84595
VehDyn_MinOffset_HwDeg_M_f32	-383.190002
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000483999989

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Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.218999997		
VehDyn_SLPHwPos_HwDeg_M_f32	93.4899979		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	63.2000008		
k_TravelXCDeadband_Uls_f32	2.8900001		
k_TravelXCHwAuthority_Uls_f32	0.216299996		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3304439296		
target_GetSystemTime_mS_u32_CurrentTime	824746752		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-411.51001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1060.09595		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.44000006		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400.6001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024	1024	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005	2800.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1060.09595	1060.09595	✔
VehDyn_MinOffset_HwDeg_M_f32	-411.51001	-411.51001	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.49854183	1.49854183 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.218999997	0.218999997 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	93.4899979	93.4899979 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.168 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime

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VehDyn_Per1

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	34.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	88.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000407999993
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000964000006
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	10.1000004
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	45.7999992
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.3999996
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	42.2999992
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	29076
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	43868
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000763999997
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000520000001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	10.6000004
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	116.599998
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.6000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.5999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.59999966e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000964000006
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	-1192.83801
VehDyn_MinOffset_HwDeg_M_f32	-389.910004
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000484999997
VehDyn_SLPHwAuth_Uls_M_f32	0.200000003
VehDyn_SLPHwPos_HwDeg_M_f32	103.75
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	88.8000031
k_TravelXCDeadband_Uls_f32	4.46000004
k_TravelXCHwAuthority_Uls_f32	0.217525005
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2167769344
target_GetSystemTime_mS_u32_CurrentTime	309385728
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-405.25
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1054.52698
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.54999995
target_VehDyn_Per1_MotorVelCRF_MtrRadPS_f32.value	1199.09998
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2800.3999
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	245.641006

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002	1988.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1745.87292	-1745.87305	✓
VehDyn_MinOffset_HwDeg_M_f32	-389.910004	-389.910004	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000253	-1.60000253 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.200000003	0.200000003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	103.75	103.75 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.169 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadPS_f32	9.19999981	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	18.2000008	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.1999998	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.1999969	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36416	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000409
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.69995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000966000021
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	56.7000008
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96.8000031
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.80000019
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	12.6000004
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_ms_u16	32821
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_ms_u16	53946
VehDyn_AutoCntrHiSpd_M_str.Timer1_ms_u32	109643620
VehDyn_AutoCntrHiSpd_M_str.Timer2_ms_u32	4290967295
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000766000012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000523999974
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	56.5
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.5
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_ms_u16	33198
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_ms_u16	7778
VehDyn_AutoCntrLoSpd_M_str.Timer1_ms_u32	4004004657
VehDyn_AutoCntrLoSpd_M_str.Timer2_ms_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.61999981e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000966000021
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	1197.82996
VehDyn_MinOffset_HwDeg_M_f32	-396.630005
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000486000004
VehDyn_SLPHwAuth_Uls_M_f32	0.180999994
VehDyn_SLPHwPos_HwDeg_M_f32	114.010002
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	96.1999969
k_TravelXCDeadband_Uls_f32	6.03000021
k_TravelXCHwAuthority_Uls_f32	0.21875
target_DtrmnElapsedTime_ms_u32_ElapsedTime	3714197504
target_GetSystemTime_ms_u32_CurrentTime	4164171008
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-398.98999
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1048.95801
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.65999997
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1299
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1438.69995
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.89999998
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	387		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.69995	2800.69995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995	1885.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1197.82996	1197.82996	✓
VehDyn_MinOffset_HwDeg_M_f32	1039.70996	1039.70996	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7936239	-14.7936239 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.180999994	0.180999994 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	114.010002	114.010002 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.170 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	533.299988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	88.3000031
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.29999995
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	10.3000002
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36612
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.100006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000410000008
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000967999978
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86.4400024
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	129
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.44000006
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	53.7999992
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40437

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13059		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	164464918		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.40002		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000768000027		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.59998		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000528000004		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	86.3000031		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.300003		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.2999992		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.3000031		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21335		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34188		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.330017		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.63999997e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.100006		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000967999978		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1202.82202		
VehDyn_MinOffset_HwDeg_M_f32	-403.350006		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000487000012		
VehDyn_SLPHwAuth_Uls_M_f32	0.162		
VehDyn_SLPHwPos_HwDeg_M_f32	124.269997		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	32.4000015		
k_TravelXCDeadband_Uls_f32	7.5999999		
k_TravelXCHwAuthority_Uls_f32	0.219974995		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3323480832		
target_GetSystemTime_mS_u32_CurrentTime	437658624		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-392.730011		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1043.38904		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.76999998		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-147.365005		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	753.640015		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.19999981		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	398.85199		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.100006	456.100006 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	437658624	437658624	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.40002	1885.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.59998	-2000.59998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.330017	753.330017 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.100006	142.100006 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1043.38904	1043.38904	✓
VehDyn_MinOffset_HwDeg_M_f32	-392.730011	-392.730011	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7905922	17.7905922 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.171 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	570.099976	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	76.0999985	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	25.1000004	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	49475	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22037	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000410999986	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.59998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000969999994	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	75.8000031	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	88.5999985	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.7000008	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.5999985	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2291	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58929	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	219286216	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.5	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000769999984	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.90002	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000531999976	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	

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Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	75.1999969		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146.199997		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.2000008		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	45.2000008		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	12258		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36416		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.66000012e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000969999994		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1207.81396		
VehDyn_MinOffset_HwDeg_M_f32	-410.070007		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000487999991		
VehDyn_SLPHwAuth_Uls_M_f32	0.143000007		
VehDyn_SLPHwPos_HwDeg_M_f32	134.529999		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	52.7000008		
k_TravelXCDeadband_Uls_f32	9.17000008		
k_TravelXCHwAuthority_Uls_f32	0.221200004		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	71426560		
target_GetSystemTime_mS_u32_CurrentTime	3941357312		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-386.470001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1037.81995		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.88		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	88		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1988		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.39999962		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	489		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995	-2500.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.59998	1950.59998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.5	-1887.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.90002	1900.90002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024	1024	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1037.81995	1037.81995	✓
VehDyn_MinOffset_HwDeg_M_f32	-386.470001	-386.470001	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.9975791	-6.9975791 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.143000007	0.143000007 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	134.529999	134.529999 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.172 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	497.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	86.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.099976
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000411999994
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000972000009
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	98.6999969
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	76.5999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.6000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000771999999
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.90002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000536000007
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	98.0999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.0999999
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	78.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	34738
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36612
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.68000027e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000972000009
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1212.80603		
VehDyn_MinOffset_HwDeg_M_f32	-416.790009		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000488999998		
VehDyn_SLPHwAuth_Uls_M_f32	0.123999998		
VehDyn_SLPHwPos_HwDeg_M_f32	144.789993		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	10.5		
k_TravelXCDeadband_Uls_f32	10.7399998		
k_TravelXCHwAuthority_Uls_f32	0.222424999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2430672128		
target_GetSystemTime_mS_u32_CurrentTime	3304439296		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-380.209991		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1032.25098		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-1.99000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-75.4100037		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1988		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	500.053986		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.099976	-753.099976 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995	1885.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988	1988 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1898.81555	-1898.81555 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.30005	1988.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	-955.749023	-955.749023	✔
VehDyn_MinOffset_HwDeg_M_f32	-416.790009	-416.790009	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.29617453	6.29617453 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.123999998	0.123999998 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	144.789993	144.789993 ± 0.1	✔

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T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.173 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	31.7999992
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	96.8000031
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.80000019
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	56.7999992
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000413000002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.600006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000974000024
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	66.9000015
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	86.5999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	12.8000002
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	45.7000008
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.299988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000774000015
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.80005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000539999979
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	66.4000015
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.400002
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.4000001
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.4000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	37799
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	41632
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.6999997e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000974000024
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	1217.79797
VehDyn_MinOffset_HwDeg_M_f32	-423.51001

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000490000006		
VehDyn_SLPHwAuth_Uls_M_f32	0.104999997		
VehDyn_SLPHwPos_HwDeg_M_f32	155.050003		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegHwDeg_f32	25.4500008		
k_TravelXCDeadband_Uls_f32	12.3100004		
k_TravelXCHwAuthority_Uls_f32	0.223649994		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2242866176		
target_GetSystemTime_mS_u32_CurrentTime	2167769344		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRdpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRdpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-373.950012		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1026.68201		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.0999999		
target_VehDyn_Per1_MotorVelCRF_MtrRdpS_f32.value	154		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1991.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	75		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.299988	456.299988 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.600006	142.600006 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.299988	935.299988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.80005	-1482.80005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620	109643620	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-964.417969	-964.41803	✔
VehDyn_MinOffset_HwDeg_M_f32	-423.51001	-423.51001	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1914358	15.1914368 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

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VehDyn_Per1

Test Step 2.174 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	290.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	106.099998
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	54.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000414000009
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000975999981
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	34.5999985
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96.8000031
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.0100002
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	78.6999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000775999972
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.799988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00054400001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	34
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.71999985e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000975999981
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1222.79004
VehDyn_MinOffset_HwDeg_M_f32	-430.230011
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000491000013
VehDyn_SLPHwAuth_Uls_M_f32	0.0860000029
VehDyn_SLPHwPos_HwDeg_M_f32	165.309998
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	86.4499969
k_TravelXCDeadband_Uls_f32	13.8800001
k_TravelXCHwAuthority_Uls_f32	0.224875003
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2269150976
target_GetSystemTime_mS_u32_CurrentTime	3714197504
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-367.690002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1021.11298		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.21000004		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.541016		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1987		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	99.4520035		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.200012	-888.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.799988	-753.799988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.30005	-2000.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005	-1900.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1021.11298	1021.11298	✔
VehDyn_MinOffset_HwDeg_M_f32	-367.690002	-367.690002	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.9920683	13.9920683 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0860000029	0.0860000029 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	165.309998	165.309998 ± 0.1	✔

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.175 (Repeat Count = 1)	Name	Input Value
	DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
	GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
	Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
	VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0
	VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	604.900024
	VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	116.900002
	VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.8999996
	VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	85.9000015
	VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364
	VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22497
	VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000414999988
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000977999996
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	2.79999995
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	106.800003
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.5999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000777999987
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.799988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000547999982
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	2.4000001
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146.399994
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.4000001
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.4000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43190
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.74e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000977999996
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	-1227.78198
VehDyn_MinOffset_HwDeg_M_f32	-436.950012
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89999962
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000492000021
VehDyn_SLPHwAuth_Uls_M_f32	0.0670000017
VehDyn_SLPHwPos_HwDeg_M_f32	175.570007
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	56.1300011
k_TravelXCDeadband_Uls_f32	15.4499998
k_TravelXCHwAuthority_Uls_f32	0.226099998
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3533260288
target_GetSystemTime_mS_u32_CurrentTime	3323480832
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-361.429993
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1015.54401
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.31999993
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	458.649994
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.9000001

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	87		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3323480832	3323480832	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005	2600.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012	425.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.799988	456.799988 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3323480832	3323480832	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.40002	1900.40002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1015.54401	1015.54401	✓
VehDyn_MinOffset_HwDeg_M_f32	-361.429993	-361.429993	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89454842	8.89454937 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0670000017	0.0670000017 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	175.570007	175.570007 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.176 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	554.799988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	126.800003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.8000002
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.8000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000415999995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000980000012
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	120
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	116.599998

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.4000001		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	25532		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27401		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423.5		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000780000002		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.69995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000552000012		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	120		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	13.5		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	10		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	30404		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	30349		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.40002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.76000015e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.0009800000012		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1232.77405		
VehDyn_MinOffset_HwDeg_M_f32	-443.670013		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8999996		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.0004930000029		
VehDyn_SLPHwAuth_Uls_M_f32	0.0480000004		
VehDyn_SLPHwPos_HwDeg_M_f32	185.830002		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	54.1199989		
k_TravelXCDeadband_Uls_f32	17.0200005		
k_TravelXCHwAuthority_Uls_f32	0.227325007		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	812314880		
target_GetSystemTime_mS_u32_CurrentTime	3941357312		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-369.149994		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1009.97498		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.43000007		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1999		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.79999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	127		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.19995	-2500.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423.5	-423.5 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.69995	-2500.69995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514	274107514	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.40002	-1900.40002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1232.77405	1232.77405	✓
VehDyn_MinOffset_HwDeg_M_f32	1629.84998	1629.84998	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8919325	13.8919325 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0480000004	0.0480000004 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	185.830002	185.830002 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.177 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	290.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	106.099998
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	54.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000417000003
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000982000027
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	34.4000015
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.6000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	78.8000031
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.299988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000782000017
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.799988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000555999984
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	34.5		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.5		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.10000002		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.5		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.40002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.78000031e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000982000027		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1237.76599		
VehDyn_MinOffset_HwDeg_M_f32	-450.390015		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000493999978		
VehDyn_SLPHwAuth_Uls_M_f32	0.0289999992		
VehDyn_SLPHwPos_HwDeg_M_f32	196.089996		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	86.2099991		
k_TravelXCDeadband_Uls_f32	18.5900002		
k_TravelXCHwAuthority_Uls_f32	0.228550002		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	0		
target_GetSystemTime_mS_u32_CurrentTime	3304439296		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-376.869995		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1004.40601		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.53999996		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.299988		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1987.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	99.9899979		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.299988	-888.299988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.799988	-753.799988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.40002	-2000.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005	-1900.30005 ± 0.009	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-982.69397	-982.69397	✓
VehDyn_MinOffset_HwDeg_M_f32	-450.390015	-450.390015	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.9918575	13.9918575 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0289999992	0.0289999992 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	196.089996	196.089996 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.178 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	604.700012	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	116.699997	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.6999998	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	85.6999969	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22497	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000418000011	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000984000042	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	2.53999996	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	106.599998	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.65400004	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.5999985	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39056	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000783999974	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.899994	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000560000015	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	2.5999999	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146.600006	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.5999985	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43190	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3186	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.40002	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.79999973e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000984000042		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1242.75806		
VehDyn_MinOffset_HwDeg_M_f32	-457.109985		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89999962		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000494999986		
VehDyn_SLPHwAuth_Uls_M_f32	0.00999999978		
VehDyn_SLPHwPos_HwDeg_M_f32	206.350006		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	56.2999992		
k_TravelXCDeadband_Uls_f32	20.1599998		
k_TravelXCHwAuthority_Uls_f32	0.229774997		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4294967295		
target_GetSystemTime_mS_u32_CurrentTime	2167769344		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-384.589996		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	998.836975		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.6500001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	458.890015		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	87.7699966		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.5	2600.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012	425.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.899994	456.899994 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.40002	1900.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	998.836975	998.836975	✔
VehDyn_MinOffset_HwDeg_M_f32	-384.589996	-384.589996	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89435196	8.89435196 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1.99002075	1.99000001 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.179 (Repeat Count = 1) ✓

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	554.700012
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	126.699997
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.6999998
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.6999969
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000418999989
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000986000057
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	120.599998
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	116
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000785999999
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.8999
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000563999987
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	120
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	13.6000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	10
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	30404
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.81999988e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000986000057
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	-1247.75
VehDyn_MinOffset_HwDeg_M_f32	-463.829987
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8999996
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000495999993

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.0189999994		
VehDyn_SLPHwPos_HwDeg_M_f32	216.610001		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSdpVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	54.3100014		
k_TravelXCDeadband_Uls_f32	21.7299995		
k_TravelXCHwAuthority_Uls_f32	0.231000006		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	255468		
target_GetSystemTime_mS_u32_CurrentTime	3714197504		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-392.309998		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	993.268005		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.75999999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.400024		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1999		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.79999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	127		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.30005	-2400.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.1001	-2500.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423.200012	-423.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.8999	-2500.8999 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.40002	-1900.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSdpLearnt_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	993.268005	993.268005	✔
VehDyn_MinOffset_HwDeg_M_f32	-392.309998	-392.309998	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8917198	13.8917198 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0189999994	0.0189999994 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	216.610001	216.610001 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.180 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	290.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	106.099998
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	54.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000419999997
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000987999956
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	34.0999985
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96.0999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.6000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	78
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.299988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000788000005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.900024
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000568000018
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	34.7000008
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.600006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.7000008
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.84000003e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000987999956
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1252.74194
VehDyn_MinOffset_HwDeg_M_f32	-470.549988
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000497000001
VehDyn_SLPHwAuth_Uls_M_f32	0.0280000009
VehDyn_SLPHwPos_HwDeg_M_f32	226.869995
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	86.3099976
k_TravelXCDeadband_Uls_f32	23.2999992
k_TravelXCHwAuthority_Uls_f32	0.232225001
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2167769344
target_GetSystemTime_mS_u32_CurrentTime	0
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-400.029999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	987.698975		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.86999989		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1987.19995		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	99.9869995		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.5	-2500.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005	-1900.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.299988	-888.299988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.900024	-753.900024 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.40002	-2000.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	-999.500977	-999.500977	✔
VehDyn_MinOffset_HwDeg_M_f32	-470.549988	-470.549988	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.9916439	13.9916439 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0280000009	0.0280000009 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	226.869995	226.869995 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.181 (Repeat Count = 1)	✓
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	604.200012
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	116.199997
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.3000002
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	85.3000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000421000004
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000989999971
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	2.4000001
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	106.599998
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000790000002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.799988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00057199999
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	2.4000001
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146.699997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.69999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43190
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.86000019e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000989999971
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	1257.73401
VehDyn_MinOffset_HwDeg_M_f32	-477.269989
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89999962
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000498000009
VehDyn_SLPHwAuth_Uls_M_f32	0.0370000005
VehDyn_SLPHwPos_HwDeg_M_f32	237.130005
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	56.2099991
k_TravelXCDeadband_Uls_f32	24.8700008
k_TravelXCHwAuthority_Uls_f32	0.233449996
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3714197504
target_GetSystemTime_mS_u32_CurrentTime	4294967295
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-407.75
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	982.130005
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-2.98000002
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253.5



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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.4000015		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	25532		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27401		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423.299988		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791999977		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.80005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00057600002		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	120.699997		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	13.6999998		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	10.6999998		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	30404		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	30349		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.88000034e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.099976		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000991999987		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1262.72595		
VehDyn_MinOffset_HwDeg_M_f32	-483.98999		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8999996		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000499000016		
VehDyn_SLPHwAuth_Uls_M_f32	0.0460000001		
VehDyn_SLPHwPos_HwDeg_M_f32	247.389999		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	54.2099991		
k_TravelXCDeadband_Uls_f32	26.4400005		
k_TravelXCHwAuthority_Uls_f32	0.234675005		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3323480832		
target_GetSystemTime_mS_u32_CurrentTime	255468		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-415.470001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	976.560974		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.08999991		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1999		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.79999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	127		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	255468	255468	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-423.299988	-423.299988 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.80005	-2500.80005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	255468	255468	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.099976	-753.099976 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	976.560974	976.560974	✓
VehDyn_MinOffset_HwDeg_M_f32	-415.470001	-415.470001	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.8915052	13.8915052 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0460000001	0.0460000001 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	247.389999	247.389999 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.183 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.10000038
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	41.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25496
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	0
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2160073393
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.82000007e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000899999985
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	580.099976
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	126
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.1399994
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	37799
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	41632
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	109643620
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000699999975
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000391999987
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	580.799988		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.800003		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.79999995		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.7999992		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	16683		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22497		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.95999988e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000899999985		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1267.71802		
VehDyn_MinOffset_HwDeg_M_f32	-490.709991		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000452999986		
VehDyn_SLPHwAuth_Uls_M_f32	0.0549999997		
VehDyn_SLPHwPos_HwDeg_M_f32	257.649994		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	32.5		
k_TravelXCDeadband_Uls_f32	28.0100002		
k_TravelXCHwAuthority_Uls_f32	0.2359		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1720406272		
target_GetSystemTime_mS_u32_CurrentTime	4243378688		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-423.190002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	360		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.20000005		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.5		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	200.257996		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.5		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	500		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500	-2500 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	109643620	109643620	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.5	1900.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.5	1950.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.3999	2800.3999 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	360	360	✓
VehDyn_MinOffset_HwDeg_M_f32	-423.190002	-423.190002	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.29571772	6.29571724 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0549999997	0.0549999997 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	257.649994	257.649994 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.184 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.299988	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	176.300003	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.30000019	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.2999992	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	11226	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	60000	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.3999	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.82999997e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000902	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	621	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	136.600006	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.10000002	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.0999985	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	26195	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22037	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	164464918	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.5	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00070199999	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000395999989	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	621.400024	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.399994	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.34000015	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.3000002	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.98000003e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000902		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1272.70996		
VehDyn_MinOffset_HwDeg_M_f32	-497.429993		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000453999994		
VehDyn_SLPHwAuth_Uls_M_f32	0.064000003		
VehDyn_SLPHwPos_HwDeg_M_f32	267.910004		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	52.2000008		
k_TravelXCDeadband_Uls_f32	29.5799999		
k_TravelXCHwAuthority_Uls_f32	0.237124994		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2659241984		
target_GetSystemTime_mS_u32_CurrentTime	1050692864		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-430.910004		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1440.10999		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.30999994		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2000		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.60000002		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	499		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.3999	2600.3999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.5	-2000.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5	148.5 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1272.70996	1272.70996	✔
VehDyn_MinOffset_HwDeg_M_f32	1569.08997	1569.08997	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1915827	15.1915827 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.064000003	0.064000003 ± 0.004	

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	267.910004	267.910004 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.185 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	498.399994
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	186.399994
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.3999996
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	88.4000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	29729
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	33804
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.83999986e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000904000015
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	662
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	146.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	52.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43190
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	219286216
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000704000005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00039999999
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	662.099976
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	176.139999
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.0999999
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	29076
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	43868
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.00000019e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000904000015
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	1277.70203
VehDyn_MinOffset_HwDeg_M_f32	-504.149994

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000455000001		
VehDyn_SLPHwAuth_Uls_M_f32	0.07299999989		
VehDyn_SLPHwPos_HwDeg_M_f32	278.170013		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	41.8499985		
k_TravelXCDeadband_Uls_f32	31.1499996		
k_TravelXCHwAuthority_Uls_f32	0.238350004		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2942063360		
target_GetSystemTime_mS_u32_CurrentTime	3039943680		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-438.630005		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1415.25		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.42000008		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.099976		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1900.40002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	120.050003		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3039943680	3039943680	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.30005	1900.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002	-1482.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024	1024	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.5	753.5 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.40002	1950.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnM_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnM_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-485.150024	-485.149994	✔
VehDyn_MinOffset_HwDeg_M_f32	-504.149994	-504.149994	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.9921236	13.9921236 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.238350004	0.238350004 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1396.25	1396.25 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.186 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	539.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	196.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2880.21997
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.85000021e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.69995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000905999972
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124.599998
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	156
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	13.6000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	10.3999996
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	30404
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	30349
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000706000021
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.599976
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000403999991
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.400002
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	186.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.02000034e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000905999972
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1282.69397
VehDyn_MinOffset_HwDeg_M_f32	-510.869995
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000456000009
VehDyn_SLPHwAuth_Uls_M_f32	0.0820000023
VehDyn_SLPHwPos_HwDeg_M_f32	288.429993
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	63.0139999
k_TravelXCDeadband_Uls_f32	32.7200012
k_TravelXCHwAuthority_Uls_f32	0.239574999
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1117112832
target_GetSystemTime_mS_u32_CurrentTime	1316564736
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1440.10999
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	987.698975
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.52999997
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1900
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-7.30000019
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230.039993

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2880.21997	-2880.21997 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.69995	-2400.69995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.599976	-753.599976 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.5	1885.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.09998	1885.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	987.698975	987.698975	✓
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999	-1440.10999	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79478073	7.79478073 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0820000023	0.0820000023 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	288.429993	288.429993 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.187 (Repeat Count = 1)	Name	Input Value
	DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
	GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
	Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
	VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
	VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	580.200012
	VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	76.1999969
	VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.1999998
	VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	97.1999969
	VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25532

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2880.21997
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.86000011e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000907999987
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	138.100006
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	166.699997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	19.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	25.6000004
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	10412
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000707999978
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000407999993
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	138.100006
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	196
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.2000008
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.4000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.03999976e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.399994
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000907999987
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	0
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	1287.68604
VehDyn_MinOffset_HwDeg_M_f32	-517.590027
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000456999987
VehDyn_SLPHwAuth_Uls_M_f32	0.0909999982
VehDyn_SLPHwPos_HwDeg_M_f32	298.690002
k_HiSpdVDAuthority_Uls_f32	0.99000001
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	88.8700027
k_TravelXCDeadband_Uls_f32	34.2900009
k_TravelXCHwAuthority_Uls_f32	0.240799993
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1736795392
target_GetSystemTime_mS_u32_CurrentTime	2075080192
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-360
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	982.130005
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.6400001
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1199.5

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1482.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	245		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2880.21997	2880.21997 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.30005	-1482.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.399994	456.399994 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620	109643620	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.59998	-1887.59998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.399994	142.399994 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	982.130005	982.130005	✓
VehDyn_MinOffset_HwDeg_M_f32	-360	-360	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.19688082	3.19688082 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.99000001	0.99000001 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.188 (Repeat Count = 1)		
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	621.299988	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	86.3000031	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.3000002	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.3000031	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43128	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	43868	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	0	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.87e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.69995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000910000002	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86.9000015	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	176	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.0999999		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.4000015		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16683		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22497		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	383750110		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000709999993		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000411999994		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	86.4000015		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	206.199997		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.2000008		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	45.2000008		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	2291		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58929		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.59998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.05999992e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000910000002		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	-1292.67798		
VehDyn_MinOffset_HwDeg_M_f32	-524.309998		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000457999995		
VehDyn_SLPHwAuth_Uls_M_f32	0.100000001		
VehDyn_SLPHwPos_HwDeg_M_f32	308.950012		
k_HiSpdVDAuthority_Uls_f32	0.889999986		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	75.8700027		
k_TravelXCDeadband_Uls_f32	35.8600006		
k_TravelXCHwAuthority_Uls_f32	0.242025003		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3437401088		
target_GetSystemTime_mS_u32_CurrentTime	954802432		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1242.25		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	976.560974		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.75		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1199		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.650024		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	123.330002		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	0	0 ± 0.000009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.69995	-1438.69995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	954802432	954802432	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	954802432	954802432	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.59998	-1753.59998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.09998	-1900.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1292.67798	-1292.67798	✓
VehDyn_MinOffset_HwDeg_M_f32	-488.599976	-488.600006	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.39921045	-5.39921045 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.100000001	0.100000001 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	308.950012	308.950012 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.189 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	96.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	42.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1440.88
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.87999989e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000912000018
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	44.0999985
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	186.600006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	56.2099991
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2138628886
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000712000008
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000415999995
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	44.2000008		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	216.199997		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.3999996		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	78.1999969		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	38868		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	57944		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.599976		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.08000007e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000912000018		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1297.67004		
VehDyn_MinOffset_HwDeg_M_f32	-531.030029		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000459000003		
VehDyn_SLPHwAuth_Uls_M_f32	0.108999997		
VehDyn_SLPHwPos_HwDeg_M_f32	319.209991		
k_HiSpdVDAuthority_Uls_f32	0.75999999		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	97.4499969		
k_TravelXCDeadband_Uls_f32	37.4300003		
k_TravelXCHwAuthority_Uls_f32	0.243249997		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3494315776		
target_GetSystemTime_mS_u32_CurrentTime	2728878080		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-423.190002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	970.992004		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.8599999		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1299.09998		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	456.450012		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	56		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	328928812	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1440.88	1440.88 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.5	753.5 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.599976	935.599976 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002	-1482.40002 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	970.992004	970.992004	✓
VehDyn_MinOffset_HwDeg_M_f32	-423.190002	-423.190002	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.59471798	7.59471798 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.75999999	0.75999999 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1209.75	1209.75 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.190 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	498.600006	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	106.599998	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.5999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.6000004	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	13059	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1200.56006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.88999979e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.69995	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000913999975	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	96.5999985	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	196.699997	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	9.60000038	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	54	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40437	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13059	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2345892861	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.30005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000714000023	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.299988	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000419999997	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	96.3000031	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	226.300003	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.30000019	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.3000031	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53970	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52282	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	274107514	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.599976	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.10000022e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000913999975		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1302.66199		
VehDyn_MinOffset_HwDeg_M_f32	-537.75		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00046000001		
VehDyn_SLPHwAuth_Uls_M_f32	0.118000001		
VehDyn_SLPHwPos_HwDeg_M_f32	329.470001		
k_HiSpdVDAuthority_Uls_f32	0.340000004		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	86.6999969		
k_TravelXCDeadband_Uls_f32	39		
k_TravelXCHwAuthority_Uls_f32	0.244475007		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	463842816		
target_GetSystemTime_mS_u32_CurrentTime	824746752		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-430.910004		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	965.422974		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-3.97000003		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-147		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	42.2200012		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	383750110	383750110	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1200.56006	-1200.56006 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.69995	-1988.69995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.30005	-2500.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.299988	456.299988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	824746752	824746752	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.599976	-888.599976 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1302.66199	1302.66199	✔
VehDyn_MinOffset_HwDeg_M_f32	2069.09009	2069.09009	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.49745774	1.49745774 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.118000001	0.118000001 ± 0.004	

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	329.470001	329.470001 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.191 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	9.5
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	226.5
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.5
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	53.5
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.69995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00091599999
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	100.400002
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	206.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.0999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	85.5999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58929
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00071599998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00042399998
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	100.400002
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	236.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.30000019
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.4000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.600006
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.11999965e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.6001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00091599999
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	-2840
VehDyn_MinOffset_HwDeg_M_f32	-544.469971

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VehDyn_Per1

Name	Input Value
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000460999989
VehDyn_SLPHwAuth_Uls_M_f32	0.127000004
VehDyn_SLPHwPos_HwDeg_M_f32	339.730011
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	96.5
k_TravelXCDeadband_Uls_f32	40.5699997
k_TravelXCHwAuthority_Uls_f32	0.245700002
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1759885568
target_GetSystemTime_mS_u32_CurrentTime	309385728
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-438.630005
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	959.854004
target_VehDyn_Per1_HwTorque_HwNm_f32.value	

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VehDyn_Per1

Test Step 2.192 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	533.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	236.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125584798
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.6001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000918000005
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	216.539993
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.19999981
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.5
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000717999996
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.099976
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000427999999
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.400002
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	246.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.3999996
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.4000015
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2160073393
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.69995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.1399998e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000918000005
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1440.10999
VehDyn_MinOffset_HwDeg_M_f32	-551.190002
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000461999996
VehDyn_SLPHwAuth_Uls_M_f32	0.136000007
VehDyn_SLPHwPos_HwDeg_M_f32	349.98999
k_HiSpdVDAuthority_Uls_f32	0.670000017
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	32.5400009
k_TravelXCDeadband_Uls_f32	42.1399994
k_TravelXCHwAuthority_Uls_f32	0.246924996
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1662097408
target_GetSystemTime_mS_u32_CurrentTime	4164171008
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-446.350006
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	954.284973
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.19000006
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-75
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2000
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.19999981
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	128

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.6001	-2500.6001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.099976	-753.099976 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.69995	-2000.69995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1440.10999	1440.10999	✓
VehDyn_MinOffset_HwDeg_M_f32	1553.65002	1553.65002	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.794982	-14.794982 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.136000007	0.136000007 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	349.98999	349.98999 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.193 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	290.299988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	32.2999992
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.2999992
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.3000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	32821

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VehDyn_Per1

Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.87999989e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.69995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00092000002
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	126.599998
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	42.5999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.5999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	63.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000720000011
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432000001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	126.5
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	88.5
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.5
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	75.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	10412
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.700012
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.15999995e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00092000002
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	1425.25
VehDyn_MinOffset_HwDeg_M_f32	-557.909973
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000463000004
VehDyn_SLPHwAuth_Uls_M_f32	0.144999996
VehDyn_SLPHwPos_HwDeg_M_f32	360.25
k_HiSpdVDAuthority_Uls_f32	0.119999997
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	86.6399994
k_TravelXCDeadband_Uls_f32	43.7099991
k_TravelXCHwAuthority_Uls_f32	0.248150006
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2127166208
target_GetSystemTime_mS_u32_CurrentTime	437658624
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-454.070007
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	948.716003
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.30000019
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.099976

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VehDyn_Per1

Name	Input Value	Expected Value	Result
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.349976		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	489		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.69995	-1438.69995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.700012	-753.700012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.59998	1988.59998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	1425.25	1425.25	✓
VehDyn_MinOffset_HwDeg_M_f32	299.279968	299.279999	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79442263	7.79442215 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.119999997	0.119999997 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.194 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	570.400024
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	246.399994
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3999996
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.4000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000387000007
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000921999977
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	78.4000015
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	226.600006

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.4000001		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.5999985		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2967684784		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000722000026		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.01001		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000436000002		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	78.1999969		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	52.2000008		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.1999998		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.2000008		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.69995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.1800001e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000921999977		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-1302.15002		
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000464000012		
VehDyn_SLPHwAuth_Uls_M_f32	0.153999999		
VehDyn_SLPHwPos_HwDeg_M_f32	370.51001		
k_HiSpdVDAuthority_Uls_f32	0.75999999		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	52.5400009		
k_TravelXCDeadband_Uls_f32	45.2799988		
k_TravelXCHwAuthority_Uls_f32	0.249375001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4243378688		
target_GetSystemTime_mS_u32_CurrentTime	3941357312		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-461.790009		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	943.146973		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.40999985		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	159.009995		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1900		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.39999962		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	139.270004		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	383750110	383750110	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	456.01001	456.01001 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.69995	1900.69995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5	-1438.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1302.15002	-1302.15002	✓
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999	-1440.10999	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7896194	17.7896194 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.75999999	0.75999999 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1443.98999	1444 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.195 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	497.100006	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	123.099998	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	45.0999985	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	12258	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27401	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000387999986	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000923999993	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	88.6500015	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	236.580002	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.64999998	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	52.5	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3174948759	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000723999983	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.52002	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000440000003	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	88.5		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	34.5		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.5		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	63.5		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43190		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3186		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.69995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.20000025e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.599976		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000923999993		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1298.25		
VehDyn_MinOffset_HwDeg_M_f32	2840		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00046499999		
VehDyn_SLPHwAuth_Uls_M_f32	0.163000003		
VehDyn_SLPHwPos_HwDeg_M_f32	380.769989		
k_HiSpdVDAuthority_Uls_f32	0.779999971		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	10.0500002		
k_TravelXCDeadband_Uls_f32	46.8499985		
k_TravelXCHwAuthority_Uls_f32	0.25060001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1050692864		
target_GetSystemTime_mS_u32_CurrentTime	3304439296		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-469.51001		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	937.578003		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.51999998		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1100.73999		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1900.06995		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	387.859985		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2500.52002	-2500.52002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1900.69995	-1900.69995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M str.RelHwPosFilt2SV_HwDeg str.SV_Uls_f32	753.599976	753.599976 ± 0.0009	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1298.25	1298.25	✓
VehDyn_MinOffset_HwDeg_M_f32	2840	2840	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.99862003	-6.99862003 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.163000003	0.163000003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	380.769989	380.769989 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.196 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	31.2000008	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	125.199997	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.2000008	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	78.1999969	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	29076	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18715	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000388999993	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	0	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000926000008	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	94.5999985	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	246	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.5999999	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	41	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39056	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3382212733	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000725999998	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000444000005	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	94.3000031	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	18.5	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.5	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	88.3000031	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	30404	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	30349	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.69995	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.21999968e-005	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000926000008		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-1294.34998		
VehDyn_MinOffset_HwDeg_M_f32	-1242.25		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000465999998		
VehDyn_SLPHwAuth_Uls_M_f32	0.172000006		
VehDyn_SLPHwPos_HwDeg_M_f32	391.029999		
k_HiSpdVDAuthority_Uls_f32	0.233999997		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	25.5499992		
k_TravelXCDeadband_Uls_f32	48.4199982		
k_TravelXCHwAuthority_Uls_f32	0.251825005		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3039943680		
target_GetSystemTime_mS_u32_CurrentTime	2167769344		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-477.230011		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	932.008972		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.63000011		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154.449997		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1482		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	398.880005		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	0	0 ± 0.000009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.200012	753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.19995	2600.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.69995	-1482.69995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-1294.34998	-1294.34998	✔
VehDyn_MinOffset_HwDeg_M_f32	1004.77002	1004.77002	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.29500914	6.29500866 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.233999997	0.233999997 ± 0.004	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.197 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	290.299988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	32.2999992
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.2999992
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.3000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000390000001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1440.88
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000928000023
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	126.300003
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	42.5999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.30000019
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	63.5999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000728000014
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000448000006
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	126.599998
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	88.3000031
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.29999995
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	75.5
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	10412
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.23999983e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.59998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000928000023
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1290.44995
VehDyn_MinOffset_HwDeg_M_f32	-524.309998
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000467000005

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.180999994		
VehDyn_SLPHwPos_HwDeg_M_f32	401.290009		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	86.8499985		
k_TravelXCDeadband_Uls_f32	0		
k_TravelXCHwAuthority_Uls_f32	0.253049999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1316564736		
target_GetSystemTime_mS_u32_CurrentTime	3714197504		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-484.950012		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	926.440002		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.73999977		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.400024		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-753.77002		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	489		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1440.88	1440.88 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.5	-1988.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1078320779	1078320779	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988	-753.799988 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.59998	1988.59998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnM_Cnt_M_lgc	0	0	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnM_Cnt_M_lgc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1290.44995	1290.44995	✔
VehDyn_MinOffset_HwDeg_M_f32	268.820007	268.820007	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79416895	7.79416847 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.180999994	0.180999994 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	401.290009	401.290009 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.198 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	604.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	124.099998
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.10000038
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	32.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000391000009
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1200.56006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00092999998
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124.300003
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	124.300003
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.30000019
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	88
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000730000029
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000452000007
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	124.300003
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	76.5999985
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.5999999
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	97.5999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	16683
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22497
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.799988
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.25999998e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00092999998
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	1286.55005
VehDyn_MinOffset_HwDeg_M_f32	-537.75
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000468000013
VehDyn_SLPHwAuth_Uls_M_f32	0.189999998
VehDyn_SLPHwPos_HwDeg_M_f32	411.549988
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	56.3300018
k_TravelXCDeadband_Uls_f32	100
k_TravelXCHwAuthority_Uls_f32	0.254274994
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2075080192
target_GetSystemTime_mS_u32_CurrentTime	3323480832
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-492.670013
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	920.870972
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.8499999
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1253.40002
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	456.329987
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-7.30000019
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	500

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3323480832	3323480832	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.09998	1988.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1200.56006	-1200.56006 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.30005	1988.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.799988	456.799988 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	920.870972	920.870972	✓
VehDyn_MinOffset_HwDeg_M_f32	-492.670013	-492.670013	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.196172	3.196172 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.189999998	0.189999998 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	411.549988	411.549988 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.199 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	554.200012
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	84.1999969
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.19999981
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.2000008
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	2291
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000391999987
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000931999995
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	456.600006
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	35.2999992
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.6000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	75
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000731999986
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000456000009
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	456.200012
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.3000031
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.19999981
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.80005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.28000014e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000931999995
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	0
VehDyn_MaxOffset_HwDeg_M_f32	-1282.65002
VehDyn_MinOffset_HwDeg_M_f32	-551.190002
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000468999991
VehDyn_SLPHwAuth_Uls_M_f32	0.199000001
VehDyn_SLPHwPos_HwDeg_M_f32	421.809998
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	54.7799988
k_TravelXCDeadband_Uls_f32	45.9799995
k_TravelXCHwAuthority_Uls_f32	0.255499989
target_DtrmnElapsedTime_mS_u32_ElapsedTime	954802432
target_GetSystemTime_mS_u32_CurrentTime	71426560
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-500.390015
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	915.302002
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-4.96000004
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.099976
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500.06006
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	499.049988		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784	2967684784	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1024	1024	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.80005	-2500.80005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1282.65002	-1282.65002	✓
VehDyn_MinOffset_HwDeg_M_f32	1999.67004	1999.67004	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.39978266	-5.39978266 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.199000001	0.199000001 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	421.809998	421.809998 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.200 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	600.200012
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	64.1999969
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.2000008
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	41.2000008
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	38708
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000392999995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000934000011
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	566.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	75.5999985

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.6000004		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	97.5999985		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	21335		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	34188		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4211268631		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2160073393		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000734000001		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.299988		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00046000001		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	566.099976		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	96.0999985		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.30000019		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.2999992		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53759		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	18715		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.80005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.30000029e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000934000011		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	1		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1278.75		
VehDyn_MinOffset_HwDeg_M_f32	-564.630005		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.5999999		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000469999999		
VehDyn_SLPHwAuth_Uls_M_f32	0.208000004		
VehDyn_SLPHwPos_HwDeg_M_f32	432.070007		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	41.0400009		
k_TravelXCDeadband_Uls_f32	24.8700008		
k_TravelXCHwAuthority_Uls_f32	0		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2728878080		
target_GetSystemTime_mS_u32_CurrentTime	2430672128		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-508.109985		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	909.732971		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.07000017		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.200012		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2600.07007		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	5.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	120.480003		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2430672128	2430672128	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2160073393	2160073393	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.30005	-2400.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.299988	753.299988 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2600.80005	2600.80005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	456.299988		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.0999985		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.0999999		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.0999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.8999		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.31999971e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000936000026		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	-1274.84998		
VehDyn_MinOffset_HwDeg_M_f32	-578.070007		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000471000007		
VehDyn_SLPHwAuth_Uls_M_f32	0.216999993		
VehDyn_SLPHwPos_HwDeg_M_f32	442.329987		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	54.1399994		
k_TravelXCDeadband_Uls_f32	28.0100002		
k_TravelXCHwAuthority_Uls_f32	1		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	824746752		
target_GetSystemTime_mS_u32_CurrentTime	2242866176		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-515.830017		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	904.164001		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.17999983		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-835.299988		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2500.08008		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	1.29999995		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	499.640015		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.5	1991.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4004004657	4004004657	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4211268631	4211268631	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.19995	1991.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.8999	-2500.8999 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✓

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	904.164001	904.164001	✓
VehDyn_MinOffset_HwDeg_M_f32	-515.830017	-515.830017	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.39988518	-5.39988518 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.216999993	0.216999993 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	442.329987	442.329987 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.202 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.300003
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.2999992
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3000002
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.2999992
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00039500001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000937999983
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	159.600006
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	68
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.6000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000737999973
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000468000013
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	412
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	106.300003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.1000004
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.01001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.33999987e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000937999983

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Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	1270.94995		
VehDyn_MinOffset_HwDeg_M_f32	-591.51001		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000472000014		
VehDyn_SLPHwAuth_Uls_M_f32	0.225999996		
VehDyn_SLPHwPos_HwDeg_M_f32	452.589996		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	63.8699989		
k_TravelXCDeadband_Uls_f32	31.1499996		
k_TravelXCHwAuthority_Uls_f32	0.224999994		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	309385728		
target_GetSystemTime_mS_u32_CurrentTime	2269150976		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-523.549988		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	898.594971		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.28999996		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456.579987		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230.119995		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	219286216	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800	2800 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.09998	1991.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.30005	2800.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005	-1988.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.01001	-2400.01001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	1270.94995	1270.94995	✔
VehDyn_MinOffset_HwDeg_M_f32	1876.44995	1876.44995	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.49676108	1.49676108 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.225999996	0.225999996 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	452.589996	452.589996 ± 0.1	✔

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T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.203 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.200012
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	34.2000008
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.1999998
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	88.1999969
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4294967295
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000395999989
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000939999988
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	10.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	45.5999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	42.5999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	29076
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	43868
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000739999989
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000472000014
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	10.1000004
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	116.099998
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.3000002
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21364
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52716
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.36000002e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000939999988
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	-1267.05005
VehDyn_MinOffset_HwDeg_M_f32	-604.950012
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000472999993

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VehDyn_Per1

Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.234999999		
VehDyn_SLPHwPos_HwDeg_M_f32	-1600		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	88.4499969		
k_TravelXCDeadband_Uls_f32	34.2900009		
k_TravelXCHwAuthority_Uls_f32	0.243249997		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4164171008		
target_GetSystemTime_mS_u32_CurrentTime	3533260288		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-531.27002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	893.026001		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.4000001		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1199.69995		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2800.8999		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	245.309998		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3533260288	3533260288	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1482.5	-1482.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1024	1024	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.40002	1988.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	893.026001	893.026001	✔
VehDyn_MinOffset_HwDeg_M_f32	-531.27002	-531.27002	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60182357	-1.60182357 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.234999999	0.234999999 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 2.204 (Repeat Count = 1)



Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	9.10000038
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	18.1000004
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	255468
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.140015
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000396999996
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000942000013
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	56.0999985
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96.0999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.10000038
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	12.5
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	32821
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	53946
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	109643620
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000742000004
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000475999987
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	56.2999992
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.300003
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.3000031
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	33198
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	7778
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4004004657
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.38000017e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000942000013
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	1263.15002
VehDyn_MinOffset_HwDeg_M_f32	-618.390015
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.8000002
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000474
VehDyn_SLPHwAuth_Uls_M_f32	0.244000003
VehDyn_SLPHwPos_HwDeg_M_f32	1600
k_HiSpdVDAuthority_Uls_f32	1
k_LoSpdVDAuthority_Uls_f32	0
k_SysKinRatio_MtrDegpHwDeg_f32	96.7799988
k_TravelXCDeadband_Uls_f32	37.4300003
k_TravelXCHwAuthority_Uls_f32	0.255499989
target_DtrmnElapsedTime_mS_u32_ElapsedTime	437658624
target_GetSystemTime_mS_u32_CurrentTime	812314880
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-538.98999
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	887.45697
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.51000023
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1299.69995
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1438
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.89999998
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	387.23999

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	255468	255468	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.140015	-753.140015 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	812314880	812314880	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4290967295	4290967295	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.19995	1950.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.40002	1991.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	812314880	812314880	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1438.09998	-1438.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.19995	1885.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	1263.15002	1263.15002	✓
VehDyn_MinOffset_HwDeg_M_f32	899.01001	899.01001	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-14.7956057	-14.7956057 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.244000003	0.244000003 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.205 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	533.299988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	88.3000031
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.29999995
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	10.3000002
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25532

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	36612
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2967684784
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000398000004
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000944000029
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86.5999985
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	129.100006
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.5999999
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	53.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40437
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13059
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1078320779
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000744000019
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2000.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000479999988
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	86.0999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.2999992
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3382212733
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.40000032e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.100006
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000944000029
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	1
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	1259.25
VehDyn_MinOffset_HwDeg_M_f32	-631.830017
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000475000008
VehDyn_SLPHwAuth_Uls_M_f32	0.252999991
VehDyn_SLPHwPos_HwDeg_M_f32	0
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	32.5
k_TravelXCDeadband_Uls_f32	40.5699997
k_TravelXCHwAuthority_Uls_f32	0.267749995
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3941357312
target_GetSystemTime_mS_u32_CurrentTime	3437401088
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-546.710022
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	881.888
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.61999989
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-147.600006



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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.2000008		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.0999985		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2291		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58929		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	219286216		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000745999976		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.40002		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000483999989		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	75.3000031		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	146		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.1000004		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	45.2999992		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	12258		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36416		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.41999975e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000945999986		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	-1255.34998		
VehDyn_MinOffset_HwDeg_M_f32	-645.27002		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-7		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000475999987		
VehDyn_SLPHwAuth_Uls_M_f32	0.261999995		
VehDyn_SLPHwPos_HwDeg_M_f32	1456.47998		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	52.7000008		
k_TravelXCDeadband_Uls_f32	43.7099991		
k_TravelXCHwAuthority_Uls_f32	0.280000001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3304439296		
target_GetSystemTime_mS_u32_CurrentTime	3494315776		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-554.429993		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	876.31897		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.73000002		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	88.5999985		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-1988.84998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.39999962		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	489.125		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3174948759	3174948759	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.1001	-2500.1001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1950.5	1950.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995	-1887.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.40002	1900.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.09998	-1988.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	876.31897	876.31897	✓
VehDyn_MinOffset_HwDeg_M_f32	-554.429993	-554.429993	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-6.99947119	-6.99947119 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.261999995	0.261999995 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1456.47998	1456.47998 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.207 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	497.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	86.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3186
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	255468
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00039999999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000948000001
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	98.0999985
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	76.5999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.1000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.5999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38868
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57944
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	274107514
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1753.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000747999991
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000487999991
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	98.0999985		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.100006		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.29999995		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	78.0999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	34738		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36612		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.4399999e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000948000001		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1251.44995		
VehDyn_MinOffset_HwDeg_M_f32	-658.710022		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.30000019		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000476999994		
VehDyn_SLPHwAuth_Uls_M_f32	0.270999998		
VehDyn_SLPHwPos_HwDeg_M_f32	-147.25		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	10.3999996		
k_TravelXCDeadband_Uls_f32	46.8499985		
k_TravelXCHwAuthority_Uls_f32	0.292250007		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2167769344		
target_GetSystemTime_mS_u32_CurrentTime	463842816		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-562.150024		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	870.75		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.84000015		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-75.5		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1988.64001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	500.040009		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3382212733	3382212733	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	255468	255468	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.5	-753.5 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1885.5	1885.5 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	463842816	463842816	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1750.5011	-1750.50098 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.5	-1900.5 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1988.19995	1988.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1117.89001	-1117.89001	✓
VehDyn_MinOffset_HwDeg_M_f32	-658.710022	-658.710022	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	6.29443407	6.29443407 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.270999998	0.270999998 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-147.25	-147.25 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
DtrmnElapsedTime_mS_u32	1	DtrmnElapsedTime_mS_u32	1	✓	
GetSystemTime_mS_u32	2	GetSystemTime_mS_u32	2	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 2.208 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	31.2000008	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	96.1999969	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.1999981	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	56.2000008	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53759	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	30349	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.5	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000400999998	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.199997	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000950000016	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	66.3300018	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	86.0999985	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	12.2299995	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	45.0999985	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	328928812	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000750000007	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000492000021	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	66.3000031	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.300003	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.0999999	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.3000031	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	37799	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	41632	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005	

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Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.46000005e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000950000016		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	-1247.55005		
VehDyn_MinOffset_HwDeg_M_f32	-672.150024		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000478000002		
VehDyn_SLPHwAuth_Uls_M_f32	0		
VehDyn_SLPHwPos_HwDeg_M_f32	-154.25		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	25.4500008		
k_TravelXCDeadband_Uls_f32	49.9900017		
k_TravelXCHwAuthority_Uls_f32	0.304500014		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3714197504		
target_GetSystemTime_mS_u32_CurrentTime	1759885568		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-569.869995		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	865.18103		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-5.94999981		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	154.5		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1991.54004		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	75.0699997		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.5	456.5 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	142.199997	142.199997 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	935.200012	935.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.40002	-1482.40002 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	109643620	109643620	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4004004657	4004004657	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.30005	1900.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	865.18103	865.18103	✔
VehDyn_MinOffset_HwDeg_M_f32	-569.869995	-569.869995	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.189806	15.189806 ± 0.00009	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0	0 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-154.25	-154.25 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 2.209 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	290.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	106.199997
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	54.2000008
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3277
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.3999
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000402000005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.40002
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000951999973
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	341
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	96.1999969
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	78.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	383750110
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.299988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000752000022
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000495999993
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	34.0999985
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	136.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.29999995
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	32.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.14001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.4800002e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.40002
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000951999973
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	1243.65002
VehDyn_MinOffset_HwDeg_M_f32	-685.590027
VehDyn_PinTrqSV_M_str.SV_Uls_f32	14

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VehDyn_Per1

Name	Input Value		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000479000009		
VehDyn_SLPHwAuth_Uls_M_f32	1		
VehDyn_SLPHwPos_HwDeg_M_f32	45.7999992		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	86.5		
k_TravelXCDeadband_Uls_f32	53.1300011		
k_TravelXCHwAuthority_Uls_f32	0.31674999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3323480832		
target_GetSystemTime_mS_u32_CurrentTime	1662097408		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-577.590027		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	859.612		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	6		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-759.25		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1987.23999		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.9000001		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	99.9899979		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3174948759	3174948759	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.3999	-2500.3999 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.40002	-1900.40002 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-888.299988	-888.299988 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	54822322	54822322	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.14001	-2000.14001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.40002	-1900.40002 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-1127.62793	-1127.62805	✔
VehDyn_MinOffset_HwDeg_M_f32	-685.590027	-685.590027	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	13.9961948	13.9961948 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

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VehDyn_Per1

Test Step 2.210 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.199997
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3000002
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000407000014
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000961999991
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	159.600006
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	68.0999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.6000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86.0999985
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000761999981
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.40002
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000515999971
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	412.700012
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	106.699997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.6999998
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.58000024e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000961999991
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	-1239.75
VehDyn_MinOffset_HwDeg_M_f32	-699.030029
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000483999989
VehDyn_SLPHwAuth_Uls_M_f32	0.587000012
VehDyn_SLPHwPos_HwDeg_M_f32	-478.100006
k_HiSpdVDAuthority_Uls_f32	0.899999976
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegpHwDeg_f32	63.2999992
k_TravelXCDeadband_Uls_f32	56.2700005
k_TravelXCHwAuthority_Uls_f32	0.328999996
target_DtrmnElapsedTime_mS_u32_ElapsedTime	71426560
target_GetSystemTime_mS_u32_CurrentTime	2127166208
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-585.309998
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	854.04303
target_VehDyn_Per1_HwTorque_HwNm_f32.value	6.40999985
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-456.100006
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2400.03003
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	230.139999

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216	219286216	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.5	2800.5 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.40002	-1988.40002 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.5	-2400.5 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.30005	-1438.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-1239.75	-1239.75	✓
VehDyn_MinOffset_HwDeg_M_f32	1814.71997	1814.71997	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.50234127	1.50234127 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.899999976	0.899999976 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-411.630005	-411.630005 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Case 3: Path Test

Specification

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

CPU Cycles:

TS3.1 2641.00 Cycles
TS3.2 2525.00 Cycles
TS3.3 2437.00 Cycles
TS3.4 3430.00 Cycles
TS3.5 2406.00 Cycles
TS3.6 3452.00 Cycles
TS3.7 3382.00 Cycles
TS3.8 3494.00 Cycles
TS3.9 2309.00 Cycles
TS3.10 3493.00 Cycles
TS3.11 3456.00 Cycles
TS3.12 3953.00 Cycles
TS3.13 3043.00 Cycles

Description

Vector Description:

TS3.1"(VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc == TRUE)=TRUE
(VehDyn_HiSpdLearnt_Cnt_M_lgc == FALSE)=FALSE
((VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc == FALSE) &&
(VehDyn_LoSpdLearnt_Cnt_M_lgc == TRUE))=FALSE"
TS3.2"(VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc == TRUE)=FALSE
(VehDyn_HiSpdLearnt_Cnt_M_lgc == FALSE)=TRUE
(VehDyn_HiSpdLearnt_Cnt_M_lgc == TRUE)=TRUE"
TS3.3SnsrlessHwAuth_Uls_T_f32 = Limit_m(SnsrlessHwAuth_Uls_T_f32, D_NOAUTH_ULS_F32, D_MAXAUTH_ULS_F32)=FALSE
TS3.4"(VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc == TRUE)=TRUE
(VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc == TRUE)=FALSE
VehDyn_MaxOffset_HwDeg_M_f32 = Min_m(VehDyn_MaxOffset_HwDeg_M_f32, (CwEOTPosition_HwDeg_T_f32 -
RelHwPos_HwDeg_T_f32))=TRUE"
TS3.5VehDyn_MinOffset_HwDeg_M_f32 = Max_m(VehDyn_MinOffset_HwDeg_M_f32, (CcwEOTPosition_HwDeg_T_f32 -
RelHwPos_HwDeg_T_f32))=FALSE
TS3.6" (VehDyn_Initialize_Cnt_M_lgc == FALSE)=TRUE
(MaxAbsHwPos_HwDeg_T_f32 < D_ZERO_ULS_F32)=FALSE"
TS3.7SnsrlessHwPos_HwDeg_T_f32 = Limit_m(SnsrlessHwPos_HwDeg_T_f32, -D_VDHWPOS_MAX_HWDEG_F32,
D_VDHWPOS_MAX_HWDEG_F32)=TRUE
TS3.8"((Deadband_Uls_T_f32 > k_TravelXCDeadband_Uls_f32) || (Deadband_Uls_T_f32 < D_ZERO_ULS_F32))=FALSE
(TravelXC_HwAuth_Uls_T_f32 > D_NOAUTH_ULS_F32)=TRUE"
TS3.9VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV = Min
TS3.10(VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc == TRUE)=FALSE
TS3.11(VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc == TRUE)=TRUE
TS3.12"(VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc == TRUE)=TRUE
((VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc == FALSE) &&
(VehDyn_LoSpdLearnt_Cnt_M_lgc == TRUE))=TRUE"
TS3.13(VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc == TRUE)=TRUE

Test Step 3.1 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	0
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	0
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	0
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	0
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	0
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	0
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	0
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	0
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	0
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	0
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	0
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	0
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0

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Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	0		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	0		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	0		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	0		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	0		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	0		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	-2840		
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51000006e-006		
VehDyn_SLPHwAuth_Uls_M_f32	0		
VehDyn_SLPHwPos_HwDeg_M_f32	-1600		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	1		
k_TravelXCDeadband_Uls_f32	0		
k_TravelXCHwAuthority_Uls_f32	0		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	0		
target_GetSystemTime_mS_u32_CurrentTime	0		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1440.10999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	360		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-10		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1350		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-3200		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	0		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0	0	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	360	360	✓
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999	-1440.10999	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7999992	-18.7999992 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0	0 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 3.2 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	700	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	255	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	100	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	60000	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	60000	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4294967295	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4294967295	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125584798	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125584798	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	700	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	255	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	20	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	100	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	60000	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	60000	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4294967295	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4294967295	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125584798	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125584798	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	700	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	255	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	20	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	100	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	60000	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	60000	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4294967295	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4294967295	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125584798	

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Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125584798		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	1		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	1		
VehDyn_MaxOffset_HwDeg_M_f32	1440.10999		
VehDyn_MinOffset_HwDeg_M_f32	2840		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	18.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00125584798		
VehDyn_SLPHwAuth_Uls_M_f32	1		
VehDyn_SLPHwPos_HwDeg_M_f32	1600		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	1		
k_SysKinRatio_MtrDegpHwDeg_f32	100		
k_TravelXCDeadband_Uls_f32	100		
k_TravelXCHwAuthority_Uls_f32	1		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4294967295		
target_GetSystemTime_mS_u32_CurrentTime	4294967295		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-360		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1440.10999		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	10		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	1350		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	3200		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	512		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	3200	3200 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-1759.89001	-1759.89001	✔
VehDyn_MinOffset_HwDeg_M_f32	2840	2840	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	18.7890587	18.7890587 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✔

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Name	Actual Value	Expected Value	Result
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	0	0 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 3.3 (Repeat Count = 1) ✓

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.100006
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.100006
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	42.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000650000002
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	125.099998
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	124.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.79999995
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	10.5
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	49475
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	38708
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000449999992
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000780000002
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	200.100006
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	156.100006
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.4000001
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	42.0999985
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	274107514
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.49999994e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000650000002
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	0
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	369.15799
VehDyn_MinOffset_HwDeg_M_f32	-1439.15405
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.80000019
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00025099999

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Name	Input Value		
VehDyn_SLPHwAuth_Uls_M_f32	0.986999989		
VehDyn_SLPHwPos_HwDeg_M_f32	-1589.15002		
k_HiSpdVDAuthority_Uls_f32	0.899999976		
k_LoSpdVDAuthority_Uls_f32	0.330000013		
k_SysKinRatio_MtrDegpHwDeg_f32	10.0200005		
k_TravelXCDeadband_Uls_f32	1.25		
k_TravelXCHwAuthority_Uls_f32	0.0153999999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1720406272		
target_GetSystemTime_mS_u32_CurrentTime	4243378688		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1438.15002		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	375.23999		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.10000038		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-900.210022		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	2880.20996		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	0		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1950.09998	1950.09998 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2600.1001	2600.1001 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	274107514	274107514	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.09998	-1482.09998 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	375.23999	375.23999	✔
VehDyn_MinOffset_HwDeg_M_f32	-1438.15002	-1438.15002	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	7.79555798	7.7955575 ± 0.000009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.899999976	0.899999976 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	280.109863	280.109985 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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VehDyn_Per1

Test Step 3.4 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.299988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.300003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	16.2999992
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.3000002
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51999995e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000652000017
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	124
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	84.0999985
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.5
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	25
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000452000007
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000782000017
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	457.399994
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.399994
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.3999996
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	25532
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27401
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2160073393
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.54000006e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000652000017
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	0
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	0
VehDyn_MaxOffset_HwDeg_M_f32	-374.149994
VehDyn_MinOffset_HwDeg_M_f32	-1432.46997
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000251999998
VehDyn_SLPHwAuth_Uls_M_f32	0.972000003
VehDyn_SLPHwPos_HwDeg_M_f32	-1578.89001
k_HiSpdVDAuthority_Uls_f32	0.349999994
k_LoSpdVDAuthority_Uls_f32	0.889999986
k_SysKinRatio_MtrDegpHwDeg_f32	25.1000004
k_TravelXCDeadband_Uls_f32	2.69000006
k_TravelXCHwAuthority_Uls_f32	0.0166250002
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2659241984
target_GetSystemTime_mS_u32_CurrentTime	1050692864
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1431.89001
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	386.147003
target_VehDyn_Per1_HwTorque_HwNm_f32.value	9.5
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	800.869995
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	200.839996
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	7.80000019
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	512

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2160073393	2160073393	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998	1885.09998 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.19995	-2400.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995	2800.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	-374.149994	-374.149994	✓
VehDyn_MinOffset_HwDeg_M_f32	-1432.46997	-1432.46997	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20166588	3.20166588 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.889999986	0.889999986 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T	Actual Function	Count	Expected Function	Count	Result
	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Autocenter_f32	1	Autocenter_f32	1	✓
	GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 3.5 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	566.099976
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	84.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.0999999
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	25.1000004
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43128

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.53000007e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000653999974
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	456.5
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	64.5
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	9.10000038
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000859000022
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000783999974
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	566.299988
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	84.1999969
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.30000019
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	25.2000008
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.58e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000653999974
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1
VehDyn_MaxOffset_HwDeg_M_f32	379.141998
VehDyn_MinOffset_HwDeg_M_f32	-1425.78601
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.4000001
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000253000006
VehDyn_SLPHwAuth_Uls_M_f32	0.957000017
VehDyn_SLPHwPos_HwDeg_M_f32	-1568.63
k_HiSpdVDAuthority_Uls_f32	0.660000026
k_LoSpdVDAuthority_Uls_f32	0.800000012
k_SysKinRatio_MtrDegpHwDeg_f32	86.1999969
k_TravelXCDeadband_Uls_f32	4.13000011
k_TravelXCHwAuthority_Uls_f32	0.0178500004
target_DtrmnElapsedTime_mS_u32_ElapsedTime	2942063360
target_GetSystemTime_mS_u32_CurrentTime	3039943680
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1425.63
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	397.053986
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8.80000019
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-418.119995

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VehDyn_Per1

Name	Input Value		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-2000.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	3.20000005		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	256.640015		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998	1885.09998 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3039943680	3039943680	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1887.19995	-1887.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	2800.1001	2800.1001 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	54822322	54822322	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2553156835	2553156835	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1885.09998	1885.09998 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.1001	-2400.1001 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	379.141998	379.141998	✓
VehDyn_MinOffset_HwDeg_M_f32	574.469971	574.469971	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-5.40085077	-5.40085077 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.660000026	0.660000026 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 3.6 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	75.0999985
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	88.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	1.10000002
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	96.0999985
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	21335
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	34188
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.58e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000663999992
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	86
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	76.0999985

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.2999992		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.19995		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000289399992		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000793999992		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	75.5		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	88.8000031		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.5		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	96.8000031		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21335		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34188		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2345892861		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.78000007e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000663999992		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	0		
VehDyn_LoSpdLearnt_Cnt_M_lgc	0		
VehDyn_MaxOffset_HwDeg_M_f32	404.10199		
VehDyn_MinOffset_HwDeg_M_f32	-1392.36597		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000257999985		
VehDyn_SLPHwAuth_Uls_M_f32	0.882000029		
VehDyn_SLPHwPos_HwDeg_M_f32	-1517.32996		
k_HiSpdVDAuthority_Uls_f32	0.637000024		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	32.5		
k_TravelXCDeadband_Uls_f32	11.3299999		
k_TravelXCHwAuthority_Uls_f32	0.0239749998		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	463842816		
target_GetSystemTime_mS_u32_CurrentTime	824746752		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-1394.32996		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	451.588989		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-7.30000019		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	159.455994		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	456.100006		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	35.8899994		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012	425.200012 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005	1988.30005 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2000.19995	-2000.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.30005	1991.30005 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3589476708	3589476708	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	425.200012	425.200012 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1988.30005	1988.30005 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	451.588989	451.588989	✓
VehDyn_MinOffset_HwDeg_M_f32	-1394.32996	-1394.32996	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	17.79356	17.79356 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.882000029	0.882000029 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1517.32996	-1517.32996 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 3.7 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	539.299988
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	186.300003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.3000002
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	86.3000031
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43128
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.7000001e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000688
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	498
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	196
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.1000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53759
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	18715
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4290967295
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000777799985
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000818
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	539.700012		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	186.600006		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.6999998		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.5999985		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43128		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58869		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1024		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.26000008e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000688		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	464.006012		
VehDyn_MinOffset_HwDeg_M_f32	-1312.15796		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60000002		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00026999999		
VehDyn_SLPHwAuth_Uls_M_f32	0.702000022		
VehDyn_SLPHwPos_HwDeg_M_f32	-1394.20996		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0.800000012		
k_SysKinRatio_MtrDegpHwDeg_f32	96.5		
k_TravelXCDeadband_Uls_f32	28.6100006		
k_TravelXCHwAuthority_Uls_f32	0.038674999		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	309385728		
target_GetSystemTime_mS_u32_CurrentTime	2269150976		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1319.20996		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	582.473022		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-7.11999989		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-900.450012		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1947.64001		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-1.60000002		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	156.550003		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1024	1024	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-1988.19995	-1988.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-753.200012	-753.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2138628886	2138628886	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	753.099976	753.099976 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1482.19995	-1482.19995 ± 0.0009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_MaxOffset_HwDeg_M_f32	582.473022	582.473022	✓
VehDyn_MinOffset_HwDeg_M_f32	-1319.20996	-1319.20996	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-1.60149491	-1.60149491 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.800000012	0.800000012 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 3.8 (Repeat Count = 1)		✓
Name	Input Value	
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime	
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn	
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	2.0999999	
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	86.0999985	
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.0999999	
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	25.1000004	
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918	
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.400024	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.96999997e-006	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005	
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000742000004	
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	75.1999969	
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	18	
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.69999981	
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	100	
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16683	
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22497	
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3796740682	
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000541999994	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024	
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000872000004	
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	1	
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	2.9000001	
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.8000031	
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.9000001	
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	25.7999992	
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	20423	
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31368	
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	164464918	
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.400024		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.33999994e-005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000742000004		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	1		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	598.789978		
VehDyn_MinOffset_HwDeg_M_f32	-1131.68994		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.89999962		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000368000008		
VehDyn_SLPHwAuth_Uls_M_f32	0.296999991		
VehDyn_SLPHwPos_HwDeg_M_f32	-1117.18994		
k_HiSpdVDAuthority_Uls_f32	1		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	53.2999992		
k_TravelXCDeadband_Uls_f32	67.4899979		
k_TravelXCHwAuthority_Uls_f32	0.0717500001		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1568734208		
target_GetSystemTime_mS_u32_CurrentTime	800969984		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1150.18994		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	876.961975		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-9.25		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-158.710007		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1988.09998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	8.19999981		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	35.8199997		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918	164464918	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.400024	-753.400024 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005	-1900.30005 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	800969984	800969984	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3796740682	3796740682	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	1900.19995	1900.19995 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	753.400024	753.400024 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	800969984	800969984	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.400024	-753.400024 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.30005	-1900.30005 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_Initialize_Cnt_M_Igc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_Igc	0	0	✔
VehDyn_MaxOffset_HwDeg_M_f32	-1111.13794	-1111.13794	✔
VehDyn_MinOffset_HwDeg_M_f32	-1131.68994	-1131.68994	✔

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VehDyn_Per1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.SV_Uls_f32	8.8933773	8.8933773 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0717500001	0.0717500001 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	856.410034	856.409973 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 3.9 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	44.7999992
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.800003
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.80000019
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.8000002
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.1300001e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000774000015
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	662.200012
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	106.199997
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.1000004
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.1999969
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000561999972
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000904000015
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	44.0200005
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	166.119995
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.01999998
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.1199999
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	4.980000009e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000774000015
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1
VehDyn_HiSpdLearnt_Cnt_M_lgc	1
VehDyn_Initialize_Cnt_M_lgc	1
VehDyn_LoSpdLearnt_Cnt_M_lgc	1

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VehDyn_Per1

Name	Input Value		
VehDyn_MaxOffset_HwDeg_M_f32	678.661987		
VehDyn_MinOffset_HwDeg_M_f32	-1024.74597		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1999998		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000384000014		
VehDyn_SLPHwAuth_Uls_M_f32	0.057		
VehDyn_SLPHwPos_HwDeg_M_f32	-953.030029		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0.870000005		
k_SysKinRatio_MtrDegpHwDeg_f32	32.2999992		
k_TravelXCDeadband_Uls_f32	90.5299988		
k_TravelXCHwAuthority_Uls_f32	0.0913499966		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	4077829376		
target_GetSystemTime_mS_u32_CurrentTime	1117112832		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1050.03003		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1051.474		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-8.06000042		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	159.100006		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1988.59998		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-4.5999999		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	126.410004		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1117112832	1117112832	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5	148.5 ± 0.0009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2553156835	2553156835	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2967684784	2967684784	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	456.200012	456.200012 ± 0.0009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4211268631	4211268631	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810	2760420810	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	148.5	148.5 ± 0.0009	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.19995	-1438.19995 ± 0.009	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	1	1	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✔
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✔
VehDyn_HiSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_Initialize_Cnt_M_lgc	1	1	✔
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✔
VehDyn_MaxOffset_HwDeg_M_f32	-937.125977	-937.125977	✔
VehDyn_MinOffset_HwDeg_M_f32	-1024.74597	-1024.74597	✔
VehDyn_PinTrqSV_M_str.SV_Uls_f32	15.1910133	15.1910133 ± 0.00009	✔
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0.0913499966	0.0913499966 ± 0.004	✔
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	963.854004	963.854004 ± 0.1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

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Test Step 3.10 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	34.1399994
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	86.0999985
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.4000001
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	25.3999996
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20423
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31368
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	164464918
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.2800001e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00080400001
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	566
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	216
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.10000002
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	88.4000015
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52282
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1078320779
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	383750110
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.299988
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000592000026
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000176000001
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	700
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.3000031
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.30000019
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.1999969
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3174948759
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	5.57999992e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00080400001
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnM_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnM_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	753.541992
VehDyn_MinOffset_HwDeg_M_f32	-924.486023
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.20000005
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000399000011
VehDyn_SLPHwAuth_Uls_M_f32	0.216000006
VehDyn_SLPHwPos_HwDeg_M_f32	-799.130005
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	1
k_SysKinRatio_MtrDegHwDeg_f32	78.3000031
k_TravelXCDeadband_Uls_f32	89.9000015
k_TravelXCHwAuthority_Uls_f32	0.109724998
target_DtrmnElapsedTime_mS_u32_ElapsedTime	1759885568
target_GetSystemTime_mS_u32_CurrentTime	2728878080
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32

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VehDyn_Per1

Name	Input Value
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-956.130005
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1215.07898
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-6.03999996
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	753.700012
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	1456.69995
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	4.5999999
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	1
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	500.049988

Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	328928812	328928812	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.799988	-753.799988 ± 0.0009	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1078320779	1078320779	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	383750110	383750110	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-753.299988	-753.299988 ± 0.0009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1900.19995	-1900.19995 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	1	1	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2345892861	2345892861	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2500.19995	-2500.19995 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-2400.3999	-2400.3999 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_lgc	0	0	✓
VehDyn_Initialize_Cnt_M_lgc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_lgc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	-241.620972	-241.621002	✓
VehDyn_MinOffset_HwDeg_M_f32	-924.486023	-924.486023	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	3.19633675	3.19633675 ± 0.000009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	1	1 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	1600	1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Autocenter_f32	1	Autocenter_f32	1	✓	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓	

Test Step 3.11 (Repeat Count = 1)

Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	200.399994
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.4000015
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3999996

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Name	Input Value
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	63.4000015
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53970
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	58869
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	219286216
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.1001
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000407000014
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	1991.09998
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000961999991
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	159
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	68.3000031
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.7999992
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	86
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12258
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36416
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1024
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	54822322
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	2800.19995
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000761999981
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1988.30005
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000515999971
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	1
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	412.700012
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	106.699997
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.6999998
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	12.6999998
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3589476708
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2760420810
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-2400.19995
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.58000024e-005
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-1438.09998
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000961999991
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	1
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_HiSpdLearnt_Cnt_M_Igc	0
VehDyn_Initialize_Cnt_M_Igc	1
VehDyn_LoSpdLearnt_Cnt_M_Igc	1
VehDyn_MaxOffset_HwDeg_M_f32	1172.87
VehDyn_MinOffset_HwDeg_M_f32	-363.029999
VehDyn_PinTrqSV_M_str.SV_Uls_f32	1.5
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000483999989
VehDyn_SLPHWAuth_Uls_M_f32	0.275999993
VehDyn_SLPHWPos_HwDeg_M_f32	62.7099991
k_HiSpdVDAuthority_Uls_f32	0
k_LoSpdVDAuthority_Uls_f32	0.899999976
k_SysKinRatio_MtrDegpHwDeg_f32	63.3199997
k_TravelXCDeadband_Uls_f32	3.38000011
k_TravelXCHwAuthority_Uls_f32	0.212624997
target_DtrmnElapsedTime_mS_u32_ElapsedTime	3304439296
target_GetSystemTime_mS_u32_CurrentTime	824746752
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	-430.290009
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	1076.80298

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VehDyn_Per1

Name	Input Value
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Name	Input Value		
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	0		
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	0		
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	0		
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	0		
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	0		
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	0		
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0		
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	0		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	0		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	0		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	0		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	0		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	0		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_lgc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_lgc	0		
VehDyn_HiSpdLearnt_Cnt_M_lgc	0		
VehDyn_Initialize_Cnt_M_lgc	1		
VehDyn_LoSpdLearnt_Cnt_M_lgc	1		
VehDyn_MaxOffset_HwDeg_M_f32	280		
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51000006e-006		
VehDyn_SLPHwAuth_Uls_M_f32	0		
VehDyn_SLPHwPos_HwDeg_M_f32	-1600		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	1		
k_TravelXCDeadband_Uls_f32	0		
k_TravelXCHwAuthority_Uls_f32	0		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	0		
target_GetSystemTime_mS_u32_CurrentTime	0		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_lgc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1440.10999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	360		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-10		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1350		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	180		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	0		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_lgc	1	1	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	180	180	✓
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999	-1440.10999	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7999992	-18.7999992 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0	0 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓
Autocenter_f32	1	Autocenter_f32	1	✓
GetSystemTime_mS_u32	2	GetSystemTime_mS_u32	2	✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	✓

Test Step 3.13 (Repeat Count = 1)	
Name	Input Value
DtrmnElapsedTime_mS_u32(ElapsedTime)	target_DtrmnElapsedTime_mS_u32_ElapsedTime
GetSystemTime_mS_u32(CurrentTime)	target_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	0
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	0
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	0
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	0
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	0
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	0
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	0
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	0
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	0
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	0
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	0
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	0
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200

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VehDyn_Per1

Name	Input Value		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	0		
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	0		
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	0		
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	0		
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	0		
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	0		
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0		
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200		
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51000006e-006		
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1		
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0		
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0		
VehDyn_HiSpdLearnt_Cnt_M_Igc	0		
VehDyn_Initialize_Cnt_M_Igc	0		
VehDyn_LoSpdLearnt_Cnt_M_Igc	0		
VehDyn_MaxOffset_HwDeg_M_f32	-2840		
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999		
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7999992		
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51000006e-006		
VehDyn_SLPHwAuth_Uls_M_f32	0		
VehDyn_SLPHwPos_HwDeg_M_f32	-1600		
k_HiSpdVDAuthority_Uls_f32	0		
k_LoSpdVDAuthority_Uls_f32	0		
k_SysKinRatio_MtrDegpHwDeg_f32	1		
k_TravelXCDeadband_Uls_f32	0		
k_TravelXCHwAuthority_Uls_f32	0		
target_DtrmnElapsedTime_mS_u32_ElapsedTime	0		
target_GetSystemTime_mS_u32_CurrentTime	0		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CcwEOT_HwDeg_f32	target_VehDyn_Per1_CcwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_CwEOT_HwDeg_f32	target_VehDyn_Per1_CwEOT_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_HwTorque_HwNm_f32	target_VehDyn_Per1_HwTorque_HwNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_MotorVelCRF_MtrRadpS_f32	target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_RelHwPos_HwDeg_f32	target_VehDyn_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessAuthority_Uls_f32	target_VehDyn_Per1_SensorlessAuthority_Uls_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_SensorlessHwPos_HwDeg_f32	target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_TorqueCmdCRF_MtrNm_f32	target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeedValid_Cnt_Igc	target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn.VehDyn_Per1_VehicleSpeed_Kph_f32	target_VehDyn_Per1_VehicleSpeed_Kph_f32		
target_VehDyn_Per1_CcwEOT_HwDeg_f32.value	-1440.10999		
target_VehDyn_Per1_CwEOT_HwDeg_f32.value	360		
target_VehDyn_Per1_HwTorque_HwNm_f32.value	-10		
target_VehDyn_Per1_MotorVelCRF_MtrRadpS_f32.value	-1350		
target_VehDyn_Per1_RelHwPos_HwDeg_f32.value	-3200		
target_VehDyn_Per1_TorqueCmdCRF_MtrNm_f32.value	-8.80000019		
target_VehDyn_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_VehDyn_Per1_VehicleSpeed_Kph_f32.value	0		
Name	Actual Value	Expected Value	Result
VehDyn_AllowHiSpdAutoCntr_Cnt_M_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrDetSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✔
VehDyn_AutoCntrHiSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✔
VehDyn_AutoCntrHiSpd_M_str.Filter2Enable_Cnt_Igc	0	0	✔

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Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.SV_Uls_f32	-3200	-3200 ± 0.009	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Enable_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Enable_Cnt_Igc	1	1	✓
VehDyn_AutoCntrLoSpd_M_str.Filter1Initialized_Cnt_Igc	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Filter2Initialized_Cnt_Igc	0	0	✓
VehDyn_HiSpdLearnt_Cnt_M_Igc	0	0	✓
VehDyn_Initialize_Cnt_M_Igc	1	1	✓
VehDyn_LoSpdLearnt_Cnt_M_Igc	1	1	✓
VehDyn_MaxOffset_HwDeg_M_f32	360	360	✓
VehDyn_MinOffset_HwDeg_M_f32	-1440.10999	-1440.10999	✓
VehDyn_PinTrqSV_M_str.SV_Uls_f32	-18.7999992	-18.7999992 ± 0.00009	✓
target_VehDyn_Per1_SensorlessAuthority_Uls_f32.value	0	0 ± 0.004	✓
target_VehDyn_Per1_SensorlessHwPos_HwDeg_f32.value	-1600	-1600 ± 0.1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP0_CheckpointReached	1		✓
Autocenter_f32	1	Autocenter_f32	1		✓
GetSystemTime_mS_u32	2	GetSystemTime_mS_u32	2		✓
Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1	Rte_Call_VehDyn_Per1_CP1_CheckpointReached	1		✓

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VehDyn_SCom



Project	VehDyn
Module	VehDyn
Test Object	VehDyn_SCom

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\VehDyn
Configuration File	D:\Synergy_Work_Area\VehDyn\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)\VehDyn\src\Ap_VehDyn.c
Compiler Options	-D_DATA_ACCESS=-Dconst=-Dstatic=-Dexpf=exp -I\$(PROJECTROOT)\VehDyn\utp\contract\Ap_VehDyn -I\$(PROJECTROOT)\VehDyn\utp\contract -I\$(PROJECTROOT)\NxtLib\include -I\$(PROJECTROOT)\StdDef\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include

Comments/Description/Specification

Name	Text
Module 'VehDyn'	*****UNIT TEST INFORMATION***** Name of Tester:Sunita Kore Code File(s) Under Test:Ap_VehDyn.c Code File(s) Version:3 Module Design Document:VehDyn_MDD.docx Module Design Document Version:4 Data Dictionary Version:5 Unit Test Plan Version:2 Optimization Level:Level 2 Compiler (CodeGen) Version:TMS470_4.9.5 Model Type:Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.30 Total FLASH Used (Bytes):2054 Total RAM Used (Bytes):188 Total CALS Used (Bytes):107 Special Test Requirements: Test Date:9/19/2014 Comments:"NOTE1: Inline function defined in ""GlobalMacro.h"" are not unit tested. NOTE2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference. NOTE3:Regarding DD Modification:- DD: Received Version: 4 Modified version: 5 Range of variables "VehDyn_MinOffset_HwDeg_M_f32" and "VehDyn_MaxOffset_HwDeg_M_f32" are updated in DD with highlighted portion. " *****

Attributes

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

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VehDyn_SCom



Attributes	
Name	Value
Target Install Path	\$(ProgramFiles)\pls\UDE 3.2
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\VehDyn\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

Test Case 1: Boundary Test

Specification	Performance Metrics: (With "None" Instrumentation and "WithPS" Environment)
	CPU Cycles: TS1.1 589.00 Cycles
Description	Vector Description: TS1.1Initialization

Test Step 1.1 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn		
target_Rte_Inst_Ap_VehDyn.Pim_MotPosReset	target_Pim_MotPosReset		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0	0	✓
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

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VehDyn_Init1



Project	VehDyn
Module	VehDyn
Test Object	VehDyn_Init1

Instrumentation: Test Object Only

Statement (C0) 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\VehDyn
Configuration File	D:\Synergy_Work_Area\VehDyn\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)\VehDyn\src\Ap_VehDyn.c
Compiler Options	-D_DATA_ACCESS= -Dconst= -Dstatic= -Dexpf=exp -I\$(PROJECTROOT)\VehDyn\utp\contract\Ap_VehDyn -I\$(PROJECTROOT)\VehDyn\utp\contract -I\$(PROJECTROOT)\NtrLib\include -I\$(PROJECTROOT)\StdDef\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include

Comments/Description/Specification

Name	Text
Module 'VehDyn'	<p>*****UNIT TEST INFORMATION*****</p> <p>Name of Tester:Sunita Kore Code File(s) Under Test:Ap_VehDyn.c Code File(s) Version:3 Module Design Document:VehDyn_MDD.docx Module Design Document Version:4 Data Dictionary Version:5 Unit Test Plan Version:2 Optimization Level:Level 2 Compiler (CodeGen) Version:TMS470_4.9.5 Model Type:Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.30 Total FLASH Used (Bytes):2054 Total RAM Used (Bytes):188 Total CALS Used (Bytes):107 Special Test Requirements: Test Date:9/19/2014 Comments:"NOTE1: Inline function defined in ""GlobalMacro.h"" are not unit tested.</p> <p>NOTE2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference.</p> <p>NOTE3:Regarding DD Modification:- DD: Received Version: 4 Modified version: 5 Range of variables "VehDyn_MinOffset_HwDeg_M_f32" and "VehDyn_MaxOffset_HwDeg_M_f32" are updated in DD with highlighted portion.</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

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VehDyn_Init1



Attributes	
Name	Value
Linker File	\$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 3.2
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\VehDyn\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

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VehDyn_Init1

Test Case 1: Metrics Test

Specification	Performance Metrics: (With "None" Instrumentation and "WithPS" Environment) CPU Cycles: TS1.1 4064.00 Cycles Shortest Execution Path TS1.2 3995.00 Cycles Longest Execution Path
Description	Vector Description: TS1.1Shortest Execution Path=>(((Rte_Pim_MotPosReset()->NVMSStoredLastPosValid_Cnt_lgc) == TRUE) && (((FaultBFActive_Cnt_T_lgc & k_SLPEnableBFCheck_Cnt_lgc) == FALSE)))=FALSE TS1.2Longest Execution Path=>(((Rte_Pim_MotPosReset()->NVMSStoredLastPosValid_Cnt_lgc) == TRUE) && (((FaultBFActive_Cnt_T_lgc & k_SLPEnableBFCheck_Cnt_lgc) == FALSE)))=TRUE

Test Step 1.1 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00125584798
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	100
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.100000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.100000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	700
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	255
k_AutoCntrHiSpdTimer1_mS_u16	60000
k_AutoCntrHiSpdTimer2_mS_u16	60000
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	100
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	700
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	255
k_AutoCntrHiSpdTimer4_mS_u16	60000
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	100
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.100000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.100000001
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	700
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	20
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	255
k_AutoCntrLoSpdTimer1_mS_u16	60000
k_AutoCntrLoSpdTimer2_mS_u16	60000
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.100000001
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	1
target_Pim_MotPosReset.NVMSStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMSStoredLastPos_HwDeg_f32	1600
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	4294967295

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 1.2 (Repeat Count = 1) ✓

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	9.99999975e-006
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	16.8675175
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00779999979
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	511.249969
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	2.49991417
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	119.398392
k_AutoCntrHiSpdTimer1_mS_u16	19956
k_AutoCntrHiSpdTimer2_mS_u16	1111
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	47.1357269
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	577.715271
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	18.6059322
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	69.9332428
k_AutoCntrHiSpdTimer4_mS_u16	47307
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	97.2305069
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0350000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0649999976
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	0
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	16.4742603
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	113.628799
k_AutoCntrLoSpdTimer1_mS_u16	49475
k_AutoCntrLoSpdTimer2_mS_u16	38708
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989
k_SLPEnableBFCheck_Cnt_Igc	0
k_SLPHwAuthority_Uls_f32	0.00120000006
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1425.14795
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFAActive_Cnt_Igc	target_VehDyn_Init1_FaultBFAActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFAActive_Cnt_Igc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	1720406272

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	577.715271	577.715271 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	69.9332428	69.9332428 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.6059322	18.6059322 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	47.1357269	47.1357269 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	19956	19956 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	47307	47307 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000816464424	0.000816481013 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	511.249969	511.249969 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	119.398392	119.398392 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.49991417	2.49991417 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	16.8675175	16.8675175 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	19956	19956 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	1111	1111 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	0	0 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	113.628799	113.628799 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.4742603	16.4742603 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	97.2305069	97.2305069 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	49475	49475 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	38708	38708 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000816464424	0.000816481013 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.00120000006	0.00120000006	✓
VehDyn_SLPHwPos_HwDeg_M_f32	1425.14795	1425.14795	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Case 2: Boundary Test

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VehDyn_Init1

Specification

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

CPU Cycles:

TS2.1 4053.00 Cycles
TS2.2 3974.00 Cycles
TS2.3 3940.00 Cycles
TS2.4 3940.00 Cycles
TS2.5 3940.00 Cycles
TS2.6 3940.00 Cycles
TS2.7 3940.00 Cycles
TS2.8 3940.00 Cycles
TS2.9 3940.00 Cycles
TS2.10 3940.00 Cycles
TS2.11 3940.00 Cycles
TS2.12 3940.00 Cycles
TS2.13 3940.00 Cycles
TS2.14 3940.00 Cycles
TS2.15 3940.00 Cycles
TS2.16 3940.00 Cycles
TS2.17 3940.00 Cycles
TS2.18 3940.00 Cycles
TS2.19 3940.00 Cycles
TS2.20 3940.00 Cycles
TS2.21 3940.00 Cycles
TS2.22 3940.00 Cycles
TS2.23 3940.00 Cycles
TS2.24 3940.00 Cycles
TS2.25 3940.00 Cycles
TS2.26 3940.00 Cycles
TS2.27 3940.00 Cycles
TS2.28 3940.00 Cycles
TS2.29 3940.00 Cycles
TS2.30 3940.00 Cycles
TS2.31 3940.00 Cycles
TS2.32 3940.00 Cycles
TS2.33 3940.00 Cycles
TS2.34 3940.00 Cycles
TS2.35 3940.00 Cycles
TS2.36 3940.00 Cycles
TS2.37 3940.00 Cycles
TS2.38 3940.00 Cycles
TS2.39 3940.00 Cycles
TS2.40 3940.00 Cycles
TS2.41 3940.00 Cycles
TS2.42 3940.00 Cycles
TS2.43 3940.00 Cycles
TS2.44 3940.00 Cycles
TS2.45 3940.00 Cycles
TS2.46 3940.00 Cycles
TS2.47 3940.00 Cycles
TS2.48 3940.00 Cycles
TS2.49 3940.00 Cycles
TS2.50 3940.00 Cycles
TS2.51 3940.00 Cycles
TS2.52 3940.00 Cycles
TS2.53 3940.00 Cycles
TS2.54 3940.00 Cycles
TS2.55 3940.00 Cycles
TS2.56 3940.00 Cycles
TS2.57 3940.00 Cycles
TS2.58 3940.00 Cycles
TS2.59 3940.00 Cycles
TS2.60 3940.00 Cycles
TS2.61 3940.00 Cycles
TS2.62 3940.00 Cycles
TS2.63 3940.00 Cycles
TS2.64 3940.00 Cycles
TS2.65 3940.00 Cycles
TS2.66 3940.00 Cycles
TS2.67 3940.00 Cycles
TS2.68 3940.00 Cycles
TS2.69 3940.00 Cycles
TS2.70 3940.00 Cycles
TS2.71 3940.00 Cycles
TS2.72 3940.00 Cycles
TS2.73 3940.00 Cycles
TS2.74 3940.00 Cycles
TS2.75 3940.00 Cycles
TS2.76 3940.00 Cycles
TS2.77 3940.00 Cycles
TS2.78 3940.00 Cycles
TS2.79 3940.00 Cycles
TS2.80 3940.00 Cycles
TS2.81 3940.00 Cycles
TS2.82 3940.00 Cycles
TS2.83 3940.00 Cycles
TS2.84 3940.00 Cycles
TS2.85 3940.00 Cycles
TS2.86 3940.00 Cycles
TS2.87 3940.00 Cycles
TS2.88 3940.00 Cycles

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VehDyn_Init1

Description	Vector Description:
	TS2.1All Min
	TS2.2All Max
	TS2.3k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32==>Min
	TS2.4k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32==>Max
	TS2.5k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32==>Pos
	TS2.6k_AutoCntrLoSpdTimer1VehSpd_kph_f32==>Min
	TS2.7k_AutoCntrLoSpdTimer1VehSpd_kph_f32==>Max
	TS2.8k_AutoCntrLoSpdTimer1VehSpd_kph_f32==>Pos
	TS2.9k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32==>Min
	TS2.10k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32==>Max
	TS2.11k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32==>Pos
	TS2.12k_AutoCntrLoSpdCntrWindow_HwDeg_f32==>Min
	TS2.13k_AutoCntrLoSpdCntrWindow_HwDeg_f32==>Max
	TS2.14k_AutoCntrLoSpdCntrWindow_HwDeg_f32==>Pos
	TS2.15k_AutoCntrLoSpdTimer1_mS_u16==>Min
	TS2.16k_AutoCntrLoSpdTimer1_mS_u16==>Max
	TS2.17k_AutoCntrLoSpdTimer1_mS_u16==>Pos
	TS2.18k_AutoCntrLoSpdTimer2_mS_u16==>Min
	TS2.19k_AutoCntrLoSpdTimer2_mS_u16==>Max
	TS2.20k_AutoCntrLoSpdTimer2_mS_u16==>Pos
	TS2.21k_AutoCntrLoSpdFilt1Kn_Hz_f32==>Min
	TS2.22k_AutoCntrLoSpdFilt1Kn_Hz_f32==>Max
	TS2.23k_AutoCntrLoSpdFilt1Kn_Hz_f32==>Pos
	TS2.24k_AutoCntrLoSpdFilt2Kn_Hz_f32==>Min
	TS2.25k_AutoCntrLoSpdFilt2Kn_Hz_f32==>Max
	TS2.26k_AutoCntrLoSpdFilt2Kn_Hz_f32==>Pos
	TS2.27k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32==>Min
	TS2.28k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32==>Max
	TS2.29k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32==>Pos
	TS2.30k_AutoCntrHiSpdTimer4VehSpd_kph_f32==>Min
	TS2.31k_AutoCntrHiSpdTimer4VehSpd_kph_f32==>Max
	TS2.32k_AutoCntrHiSpdTimer4VehSpd_kph_f32==>Pos
	TS2.33k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32==>Min
	TS2.34k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32==>Max
	TS2.35k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32==>Pos
	TS2.36k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32==>Min
	TS2.37k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32==>Max
	TS2.38k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32==>Pos
	TS2.39k_AutoCntrHiSpdTimer1_mS_u16==>Min
	TS2.40k_AutoCntrHiSpdTimer1_mS_u16==>Max
	TS2.41k_AutoCntrHiSpdTimer1_mS_u16==>Pos
	TS2.42k_AutoCntrHiSpdTimer4_mS_u16==>Min
	TS2.43k_AutoCntrHiSpdTimer4_mS_u16==>Max
	TS2.44k_AutoCntrHiSpdTimer4_mS_u16==>Pos
	TS2.45k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32==>Min
	TS2.46k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32==>Max
	TS2.47k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32==>Pos
	TS2.48k_AutoCntrHiSpdTimer1VehSpd_kph_f32==>Min
	TS2.49k_AutoCntrHiSpdTimer1VehSpd_kph_f32==>Max
	TS2.50k_AutoCntrHiSpdTimer1VehSpd_kph_f32==>Pos
	TS2.51k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32==>Min
	TS2.52k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32==>Max
	TS2.53k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32==>Pos
	TS2.54k_AutoCntrHiSpdCntrWindow_HwDeg_f32==>Min
	TS2.55k_AutoCntrHiSpdCntrWindow_HwDeg_f32==>Max
	TS2.56k_AutoCntrHiSpdCntrWindow_HwDeg_f32==>Pos
	TS2.57k_AutoCntrHiSpdTimer2_mS_u16==>Min
	TS2.58k_AutoCntrHiSpdTimer2_mS_u16==>Max
	TS2.59k_AutoCntrHiSpdTimer2_mS_u16==>Pos
	TS2.60k_AutoCntrHiSpdFilt1Kn_Hz_f32==>Min
	TS2.61k_AutoCntrHiSpdFilt1Kn_Hz_f32==>Max
	TS2.62k_AutoCntrHiSpdFilt1Kn_Hz_f32==>Pos
	TS2.63k_AutoCntrHiSpdFilt2Kn_Hz_f32==>Min
	TS2.64k_AutoCntrHiSpdFilt2Kn_Hz_f32==>Max
	TS2.65k_AutoCntrHiSpdFilt2Kn_Hz_f32==>Pos
	TS2.66k_AutoCntrPinTrqLPFCoeffKn_Hz_f32==>Min
	TS2.67k_AutoCntrPinTrqLPFCoeffKn_Hz_f32==>Max
	TS2.68k_AutoCntrPinTrqLPFCoeffKn_Hz_f32==>Pos
	TS2.69VehDyn_PinTrqSV_M_Str.K==>Min
	TS2.70VehDyn_PinTrqSV_M_Str.K==>Max
	TS2.71VehDyn_PinTrqSV_M_Str.K==>Pos
	TS2.72k_AutoCntrHiSpdTimer2_mS_u16==>Pos
	TS2.73k_AutoCntrHiSpdFilt1Kn_Hz_f32==>Min
	TS2.74k_AutoCntrHiSpdFilt1Kn_Hz_f32==>Max
	TS2.75FaultBFActive_Cnt_lgc==>Min
	TS2.76FaultBFActive_Cnt_lgc==>Max
	TS2.77Rte_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc = Min
	TS2.78Rte_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc = Max
	TS2.79k_SLPEnableBFCheck_Cnt_lgc = Min
	TS2.80k_SLPEnableBFCheck_Cnt_lgc = Max
	TS2.81k_SLPHwAuthority_Uls_f32 = Min
	TS2.82k_SLPHwAuthority_Uls_f32 = Max
	TS2.83k_SLPHwAuthority_Uls_f32 = Pos
	TS2.84Rte_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32 = Min
	TS2.85Rte_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32 = Max
	TS2.86Rte_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32 = Zero
	TS2.87Rte_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32 = Pos
	TS2.88Rte_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32 = Neg

Test Step 2.1 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime

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VehDyn_Init1

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51000006e-006		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	0		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.000199999995		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.000199999995		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	0		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	0		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	0		
k_AutoCntrHiSpdTimer1_mS_u16	0		
k_AutoCntrHiSpdTimer2_mS_u16	0		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	0		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	0		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	0		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	0		
k_AutoCntrHiSpdTimer4_mS_u16	0		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	0		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.000199999995		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.000199999995		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	0		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	0		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	0		
k_AutoCntrLoSpdTimer1_mS_u16	0		
k_AutoCntrLoSpdTimer2_mS_u16	0		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.000199999995		
k_SLPEnableBFCheck_Cnt_lgc	0		
k_SLPHwAuthority_Uls_f32	0		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-1600		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	0		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	0	0 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	0	0 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	0	0 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	0	0 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	0	0 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	0	0 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	0	0 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	0	0 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	0	0 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	0	0 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	0	0 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	0	0 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

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VehDyn_Init1

Test Step 2.2 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00125584798
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	100
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.100000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.100000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	700
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	255
k_AutoCntrHiSpdTimer1_mS_u16	60000
k_AutoCntrHiSpdTimer2_mS_u16	60000
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	100
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	700
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	255
k_AutoCntrHiSpdTimer4_mS_u16	60000
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	100
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.100000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.100000001
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	700
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	20
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	255
k_AutoCntrLoSpdTimer1_mS_u16	60000
k_AutoCntrLoSpdTimer2_mS_u16	60000
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.100000001
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	1
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1600
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	4294967295

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

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VehDyn_Init1

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.3 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	9.99999975e-006
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	16.8675175
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00779999979
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	511.249969
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	2.49991417
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	119.398392
k_AutoCntrHiSpdTimer1_mS_u16	19956
k_AutoCntrHiSpdTimer2_mS_u16	1111
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	47.1357269
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	577.715271
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	18.6059322
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	69.9332428
k_AutoCntrHiSpdTimer4_mS_u16	47307
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	97.2305069
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0350000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0649999976
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	0
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	16.4742603
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	113.628799
k_AutoCntrLoSpdTimer1_mS_u16	49475
k_AutoCntrLoSpdTimer2_mS_u16	38708
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989
k_SLPEnableBFCheck_Cnt_Igc	0
k_SLPHwAuthority_Uls_f32	0.00120000006
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1425.14795
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	1720406272

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	577.715271	577.715271 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	69.9332428	69.9332428 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.6059322	18.6059322 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	47.1357269	47.1357269 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	19956	19956 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	47307	47307 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000816464424	0.000816481013 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	511.249969	511.249969 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	119.398392	119.398392 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.49991417	2.49991417 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	16.8675175	16.8675175 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	19956	19956 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	1111	1111 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	0	0 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	113.628799	113.628799 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.4742603	16.4742603 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	97.2305069	97.2305069 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	49475	49475 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	38708	38708 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000816464424	0.000816481013 ± 1.25663627181805E-06	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.00120000006	0.00120000006	✓
VehDyn_SLPHwPos_HwDeg_M_f32	1425.14795	1425.14795	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.4 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	4.99999987e-005
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	95.4768982
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00899999961
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00899999961
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	202.264374
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	16.9387646
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	125.628113
k_AutoCntrHiSpdTimer1_mS_u16	27095
k_AutoCntrHiSpdTimer2_mS_u16	2222
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	45.5802307
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	107.436508
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	10.2259359
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	172.71106
k_AutoCntrHiSpdTimer4_mS_u16	28327
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	94.2382813
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0560000017
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0344000012
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	700
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	1.05551898
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	69.8743896
k_AutoCntrLoSpdTimer1_mS_u16	43128
k_AutoCntrLoSpdTimer2_mS_u16	58869
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00899999961
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.00779999979
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1401.11499
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	2659241984

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	107.436508	107.436508 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	172.71106	172.71106 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.2259359	10.2259359 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	45.5802307	45.5802307 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	27095	27095 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	28327	28327 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2659241984	2659241984	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2659241984	2659241984	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	202.264374	202.264374 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	125.628113	125.628113 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.9387646	16.9387646 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	95.4768982	95.4768982 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	27095	27095 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	2222	2222 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2659241984	2659241984	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2659241984	2659241984	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	69.8743896	69.8743896 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.05551898	1.05551898 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	94.2382813	94.2382813 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43128	43128 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58869	58869 ± 2	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2659241984	2659241984	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2659241984	2659241984	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.5 (Repeat Count = 1) ✓

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	9.00000014e-005
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	33.3349724
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0250000004
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0299999993
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	59.5372696
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	4.59798193
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	156.923325
k_AutoCntrHiSpdTimer1_mS_u16	55627
k_AutoCntrHiSpdTimer2_mS_u16	3333
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	35.0511017
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	556.066528
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	255
k_AutoCntrHiSpdTimer4_mS_u16	4578
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	100
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0670000017
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0458000004
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	182.050003
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	10.878334
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	223.371994
k_AutoCntrLoSpdTimer1_mS_u16	53759
k_AutoCntrLoSpdTimer2_mS_u16	18715
k_AutoCntrPinTrqLPCoeffKn_Hz_f32	0.0250000004
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.0143999998
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1377.08203
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	2942063360

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	556.066528	556.066528 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	35.0511017	35.0511017 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	55627	55627 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	4578	4578 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2942063360	2942063360	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2942063360	2942063360	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	59.5372696	59.5372696 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	156.923325	156.923325 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.59798193	4.59798193 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	33.3349724	33.3349724 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	55627	55627 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3333	3333 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2942063360	2942063360	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2942063360	2942063360	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000376939774	0.000376920012 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	182.050003	182 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	223.371994	223.371994 ± 0.5	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.878334	10.878334 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53759	53759 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	18715	18715 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2942063360	2942063360	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2942063360	2942063360	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.0143999998	0.0143999998	✓
VehDyn_SLPHwPos_HwDeg_M_f32	1377.08203	1377.08203	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.6 (Repeat Count = 1)				
Name	Input Value			
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime			
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2			
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00013			
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	96.3896027			
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.063000001			
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0458000004			
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	498.457764			
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	20			
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	153.084564			
k_AutoCntrHiSpdTimer1_mS_u16	26438			
k_AutoCntrHiSpdTimer2_mS_u16	4444	9S	15.8976202	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	4.91284609			
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	300.483093			
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	0.609106064			
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	97.2060852			
k_AutoCntrHiSpdTimer4_mS_u16	14136			
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	84.7982025			
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00600000005			
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.004999999989			
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	202			
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	15.8976202			
k_AutoCntrLoSpdTimer1VehSpd_kph_f32				

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	202	202 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	0	0 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	15.8976202	15.8976202 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	84.7982025	84.7982025 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	13352	13352 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14442	14442 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1117112832	1117112832	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1117112832	1117112832	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.7 (Repeat Count = 1) ✓

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000169999999		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	94.2766724		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00600000005		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00499999989		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	332.416168		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	6.68982124		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	198.46022		
k_AutoCntrHiSpdTimer1_mS_u16	46033		
k_AutoCntrHiSpdTimer2_mS_u16	5555		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	97.4420471		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	381.251129		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	20		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	93.5331573		
k_AutoCntrHiSpdTimer4_mS_u16	1778		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	41.3416519		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00779999979		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00899999961		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	211		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	16.8140659		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	255		
k_AutoCntrLoSpdTimer1_mS_u16	21364		
k_AutoCntrLoSpdTimer2_mS_u16	52716		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00600000005		
k_SLPEnableBFCheck_Cnt_Igc	0		
k_SLPHwAuthority_Uls_f32	0.0275999997		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1329.01599		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	1736795392		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	381.251129	381.251129 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	93.5331573	93.5331573 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	97.4420471	97.4420471 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	46033	46033 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	1778	1778 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1736795392	1736795392	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1736795392	1736795392	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	332.416168	332.416168 ± 0.2	✔
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	198.46022	198.46022 ± 0.5	✔
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.68982124	6.68982124 ± 0.04	✔
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	94.2766724	94.2766724 ± 0.0625	✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	46033	46033 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	5555	5555 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1736795392	1736795392	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1736795392	1736795392	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	211	211 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.8140659	16.8140659 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.3416519	41.3416519 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21364	21364 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52716	52716 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1736795392	1736795392	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1736795392	1736795392	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.0275999997	0.0275999997	✓
VehDyn_SLPHwPos_HwDeg_M_f32	1329.01599	1329.01599	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.8 (Repeat Count = 1)

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000209999998		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	88.6500702		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00779999979		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00899999961		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	138.568741		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	6.97866201		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	72.755127		
k_AutoCntrHiSpdTimer1_mS_u16	7415		
k_AutoCntrHiSpdTimer2_mS_u16	6666		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	59.698616		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	50.0811806		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	17.8322964		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	117.223816		
k_AutoCntrHiSpdTimer4_mS_u16	16156		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	81.3328171		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00899999961		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0250000004		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	543		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	6.82931423		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	199.050003		
k_AutoCntrLoSpdTimer1_mS_u16	33198		
k_AutoCntrLoSpdTimer2_mS_u16	7778		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00779999979		
k_SLPEnableBFCheck_Cnt_lgc	1		
k_SLPHwAuthority_Uls_f32	0.0342000015		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1304.98303		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1		
tgt_GetSystemTime_mS_u32_CurrentTime	3437401088		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	50.0811806	50.0811806 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	117.223816	117.223816 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	17.8322964	17.8322964 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	59.698616	59.698616 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7415	7415 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	16156	16156 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3437401088	3437401088	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3437401088	3437401088	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	138.568741	138.568741 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	72.755127	72.755127 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.97866201	6.97866201 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	88.6500702	88.6500702 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7415	7415 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	6666	6666 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3437401088	3437401088	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3437401088	3437401088	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	543	543 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	199.050003	199 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.82931423	6.82931423 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	81.3328171	81.3328171 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	33198	33198 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	7778	7778 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3437401088	3437401088	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3437401088	3437401088	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T	✓
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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000376939774	0.000376920012 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	123.465202	123.465202 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	82.6047821	82.6047821 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.8994331	10.8994331 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	8.86355877	8.86355877 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	14014	14014 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	7777	7777 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	9	9 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	65.6970062	65.6970062 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	0	0 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	99.932251	99.932251 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21335	21335 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34188	34188 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000376939774	0.000376920012 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.0408000015	0.0408000015	✓
VehDyn_SLPHwPos_HwDeg_M_f32	1280.94995	1280.94995	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.10 (Repeat Count = 1)

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.0002899999996		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	26.9095516		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0344000012		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0630000001		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	162.400772		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	14.9627428		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	114.852692		
k_AutoCntrHiSpdTimer1_mS_u16	48224		
k_AutoCntrHiSpdTimer2_mS_u16	8888		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	47.4006882		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	585.574707		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	4.31293392		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	65.4458923		
k_AutoCntrHiSpdTimer4_mS_u16	32015		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	26.1026459		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0458000004		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00200000009		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	533		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	20		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	23.0135193		
k_AutoCntrLoSpdTimer1_mS_u16	12258		
k_AutoCntrLoSpdTimer2_mS_u16	36416		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0344000012		
k_SLPEnableBFCheck_Cnt_lgc	1		
k_SLPHwAuthority_Uls_f32	0.0474000014		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1256.91699		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1		
tgt_GetSystemTime_mS_u32_CurrentTime	463842816		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	585.574707	585.574707 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	65.4458923	65.4458923 ± 0.5	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.31293392	4.31293392 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	47.4006882	47.4006882 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	48224	48224 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	32015	32015 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	162.400772	162.400772 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	114.852692	114.852692 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.9627428	14.9627428 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	26.9095516	26.9095516 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	48224	48224 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	8888	8888 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	533	533 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	23.0135193	23.0135193 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	26.1026459	26.1026459 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	12258	12258 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36416	36416 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.11 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00033000001
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	49.6496849
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0458000004
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00200000009
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	546.656738
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	11.7334461
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	136.718338
k_AutoCntrHiSpdTimer1_mS_u16	4828
k_AutoCntrHiSpdTimer2_mS_u16	9999
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	33.7199783
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	689.916992
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	9.30665016
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	223.376236
k_AutoCntrHiSpdTimer4_mS_u16	49523
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	17.6228924
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00499999989
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00499999989
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	570
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	7.05000019
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	7.9233551
k_AutoCntrLoSpdTimer1_mS_u16	34738
k_AutoCntrLoSpdTimer2_mS_u16	36612
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0458000004
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.0540000014
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1232.88403
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFAActive_Cnt_lgc	target_VehDyn_Init1_FaultBFAActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFAActive_Cnt_lgc.value	0

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VehDyn_Init1

Name	Input Value		
tgt_GetSystemTime_mS_u32_CurrentTime	1759885568		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	689.916992	689.916992 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	223.376236	223.376236 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	9.30665016	9.30665016 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	33.7199783	33.7199783 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	4828	4828 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	49523	49523 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	546.656738	546.656738 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	136.718338	136.718338 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	11.7334461	11.7334461 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	49.6496849	49.6496849 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	4828	4828 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	9999	9999 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	570	570 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	7.9233551	7.9233551 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.05000019	7.05000019 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	17.6228924	17.6228924 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	34738	34738 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36612	36612 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.0540000014	0.0540000014	✓
VehDyn_SLPHwPos_HwDeg_M_f32	1232.88403	1232.88403	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.12 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000369999994
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	97.9824524
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.004999999989
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.004999999989
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	650.888245
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	14.2269373
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	83.2932739
k_AutoCntrHiSpdTimer1_mS_u16	13561
k_AutoCntrHiSpdTimer2_mS_u16	11110
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	84.8904648
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	13.5116568
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	14.3859873
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	200.00708
k_AutoCntrHiSpdTimer4_mS_u16	3778
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	0
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.008999999961
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00520000001
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	497
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	19.0077152
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	82.6157227
k_AutoCntrLoSpdTimer1_mS_u16	37799
k_AutoCntrLoSpdTimer2_mS_u16	41632
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.004999999989
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.0606000014
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0

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VehDyn_Init1

Name	Input Value		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1208.85095		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFAActive_Cnt_lgc	target_VehDyn_Init1_FaultBFAActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFAActive_Cnt_lgc.value	1		
tgt_GetSystemTime_mS_u32_CurrentTime	1662097408		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	13.5116568	13.5116568 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	200.00708	200.00708 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.3859873	14.3859873 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	84.8904648	84.8904648 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13561	13561 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3778	3778 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	650.888245	650.888245 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	83.2932739	83.2932739 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.2269373	14.2269373 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	97.9824524	97.9824524 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	13561	13561 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	11110	11110 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	497	497 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	82.6157227	82.6157227 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	19.0077152	19.0077152 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	0	0 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	37799	37799 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	41632	41632 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.13 (Repeat Count = 1)		
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000410000008	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	76.7621613	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.008999999961	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00520000001	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	203.632965	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	11.2671566	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	127.052841	
k_AutoCntrHiSpdTimer1_mS_u16	2974	
k_AutoCntrHiSpdTimer2_mS_u16	12221	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	71.4314346	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	460.300537	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	5.9040184	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	118.848923	
k_AutoCntrHiSpdTimer4_mS_u16	41925	
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	100	
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0250000004	
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0320999995	
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	31	
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	18.3913727	
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	202.272995	
k_AutoCntrLoSpdTimer1_mS_u16	8366	
k_AutoCntrLoSpdTimer2_mS_u16	51002	

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VehDyn_Init1

Name	Input Value
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00899999961
k_SLPEnableBFCheck_Cnt_Igc	0
k_SLPHwAuthority_Uls_f32	0.0671999976
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1184.81799
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	2127166208

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	460.300537	460.300537 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	118.848923	118.848923 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.9040184	5.9040184 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	71.4314346	71.4314346 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	2974	2974 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	41925	41925 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	203.632965	203.632965 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	127.052841	127.052841 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	11.2671566	11.2671566 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	76.7621613	76.7621613 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	2974	2974 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	12221	12221 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	31	31 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	202.272995	202.272995 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.3913727	18.3913727 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	8366	8366 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	51002	51002 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.0671999976	0.0671999976	✓
VehDyn_SLPHwPos_HwDeg_M_f32	1184.81799	1184.81799	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1		✓

Test Step 2.14 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000449999992	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	65.7764893	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0250000004	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0320999995	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	152.768814	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	15.771925	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	73.3210144	
k_AutoCntrHiSpdTimer1_mS_u16	14150	
k_AutoCntrHiSpdTimer2_mS_u16	13332	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	89.3387299	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	668.902588	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	20	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	32.1202698	
k_AutoCntrHiSpdTimer4_mS_u16	40995	
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	67.0500031	
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0630000001	
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.03999999991	
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	290	

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VehDyn_Init1

Name	Input Value
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	8.74961567
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	76.098053
k_AutoCntrLoSpdTimer1_mS_u16	3658
k_AutoCntrLoSpdTimer2_mS_u16	5853
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0250000004
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.0737999976
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1160.78503
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	4243378688

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	668.902588	668.902588 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	32.1202698	32.1202698 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	89.3387299	89.3387299 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	14150	14150 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	40995	40995 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00050252676	0.000502528972 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	152.768814	152.768814 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	73.3210144	73.3210144 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	15.771925	15.771925 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	65.7764893	65.7764893 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	14150	14150 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	13332	13332 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	290	290 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	76.098053	76.098053 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.74961567	8.74961567 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	67.0500031	67 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	3658	3658 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	5853	5853 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00050252676	0.000502528972 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.15 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000490000006
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	38.6106339
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0630000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0850000009
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	58.1886024
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.81883907
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	49.8758698
k_AutoCntrHiSpdTimer1_mS_u16	23629
k_AutoCntrHiSpdTimer2_mS_u16	14443
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	20.9637165
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	84.1278992
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	3.85283899
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	50.9156036
k_AutoCntrHiSpdTimer4_mS_u16	14512

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VehDyn_Init1

Name	Input Value
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	69.9473343
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00200000009
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.03500000001
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	604
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	2.58473921
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	60.232254
k_AutoCntrLoSpdTimer1_mS_u16	0
k_AutoCntrLoSpdTimer2_mS_u16	23667
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0630000001
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.0803999975
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1136.75195
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	1050692864

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	84.1278992	84.1278992 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	50.9156036	50.9156036 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	3.85283899	3.85283899 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	20.9637165	20.9637165 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	23629	23629 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14512	14512 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	58.1886024	58.1886024 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	49.8758698	49.8758698 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.81883907	8.81883907 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	38.6106339	38.6106339 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	23629	23629 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	14443	14443 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	604	604 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	60.232254	60.232254 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.58473921	2.58473921 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	69.9473343	69.9473343 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	23667	23667 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1050692864	1050692864	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.0803999975	0.0803999975	✓
VehDyn_SLPHwPos_HwDeg_M_f32	1136.75195	1136.75195	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.16 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000530000019	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	41.6642952	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00200000009	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.008999999961	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	338.634766	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.68194199	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	18.1331787	
k_AutoCntrHiSpdTimer1_mS_u16	42430	
k_AutoCntrHiSpdTimer2_mS_u16	15554	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	11.2356644	

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VehDyn_Init1

Name	Input Value		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	269.545135		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	13.7515726		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	62.7014771		
k_AutoCntrHiSpdTimer4_mS_u16	28023		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	11.1490717		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00499999989		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0560000017		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	554		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	20		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	123.001526		
k_AutoCntrLoSpdTimer1_mS_u16	60000		
k_AutoCntrLoSpdTimer2_mS_u16	49369		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00200000009		
k_SLPEnableBFCheck_Cnt_lgc	1		
k_SLPHwAuthority_Uls_f32	0.0869999975		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1112.71899		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1		
tgt_GetSystemTime_mS_u32_CurrentTime	3039943680		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	269.545135	269.545135 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	62.7014771	62.7014771 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	13.7515726	13.7515726 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	11.2356644	11.2356644 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	42430	42430 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	28023	28023 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3039943680	3039943680	

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VehDyn_Init1

Name	Input Value
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	83.5956268
k_AutoCntrHiSpdTimer1_mS_u16	35564
k_AutoCntrHiSpdTimer2_mS_u16	16665
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	47.4165878
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	345.451324
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	1.04481328
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	254.828232
k_AutoCntrHiSpdTimer4_mS_u16	46550
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	11.0835915
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00520000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0670000017
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	261.848846
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	16.7432442
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	65.1780853
k_AutoCntrLoSpdTimer1_mS_u16	18774
k_AutoCntrLoSpdTimer2_mS_u16	16088
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.0935999975
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1088.68604
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	1316564736

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	345.451324	345.451324 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	254.828232	254.828232 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	1.04481328	1.04481328 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	47.4165878	47.4165878 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	35564	35564 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	46550	46550 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	339.617279	339.617279 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	83.5956268	83.5956268 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	13.0185966	13.0185966 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	34.2725372	34.2725372 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	35564	35564 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	16665	16665 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	1.257658e-005	1.26000004e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	261.848846	261.848846 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	65.1780853	65.1780853 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.7432442	16.7432442 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	11.0835915	11.0835915 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	18774	18774 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	16088	16088 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1316564736	1316564736	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.0935999975	0.0935999975	✓
VehDyn_SLPHwPos_HwDeg_M_f32	1088.68604	1088.68604	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1		✓

Test Step 2.18 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000609999988	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	44.8276367	

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VehDyn_Init1

Name	Input Value		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00520000001		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00200000009		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	219.394257		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	18.4182396		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	216.505157		
k_AutoCntrHiSpdTimer1_mS_u16	53799		
k_AutoCntrHiSpdTimer2_mS_u16	17776		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	12.5710239		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	630.946533		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	18.3842678		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	3.99484253		
k_AutoCntrHiSpdTimer4_mS_u16	50044		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	29.3483315		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0320999995		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00600000005		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	674.329163		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	14.6219854		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	87.195282		
k_AutoCntrLoSpdTimer1_mS_u16	25496		
k_AutoCntrLoSpdTimer2_mS_u16	0		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00520000001		
k_SLPEnableBFCheck_Cnt_lgc	1		
k_SLPHwAuthority_Uls_f32	0.100199997		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1064.65295		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1		
tgt_GetSystemTime_mS_u32_CurrentTime	2075080192		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	630.946533	630.946533 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	3.99484253	3.99484253 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.3842678	18.3842678 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	12.5710239	12.5710239 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53799	53799 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	50044	50044 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2075080192	2075080192	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	219.394257	219.394257 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	216.505157	216.505157 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.4182396	18.4182396 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	44.8276367	44.8276367 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53799	53799 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	17776	17776 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2075080192	2075080192	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	674.329163	674.329163 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	87.195282	87.195282 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.6219854	14.6219854 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	29.3483315	29.3483315 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	25496	25496 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2075080192	2075080192	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2075080192	2075080192	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1		✓

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VehDyn_Init1

Test Step 2.19 (Repeat Count = 1)



Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000650000002
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	

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VehDyn_Init1

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.20 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000690000015
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	85.3555756
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00200000009
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00899999961
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	192.424347
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	1.4601928
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	193.415466
k_AutoCntrHiSpdTimer1_mS_u16	37774
k_AutoCntrHiSpdTimer2_mS_u16	19998
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	50.4557152
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	578.624756
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	10.2086525
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	182.197632
k_AutoCntrHiSpdTimer4_mS_u16	27106
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	56.4612427
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	39.4220428
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	3
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	123.501587
k_AutoCntrLoSpdTimer1_mS_u16	29729
k_AutoCntrLoSpdTimer2_mS_u16	33804
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00200000009
k_SLPEnableBFCheck_Cnt_Igc	1
k_SLPHwAuthority_Uls_f32	0.113399997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1016.58698
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFAActive_Cnt_Igc	target_VehDyn_Init1_FaultBFAActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFAActive_Cnt_Igc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	2728878080

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	578.624756	578.624756 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	182.197632	182.197632 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	10.2086525	10.2086525 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	50.4557152	50.4557152 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	37774	37774 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	27106	27106 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	192.424347	192.424347 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	193.415466	193.415466 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.4601928	1.4601928 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	85.3555756	85.3555756 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	37774	37774 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	19998	19998 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	39.4220428	39.4220428 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	123.501587	123.501587 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3	3 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	56.4612427	56.4612427 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	29729	29729 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	33804	33804 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2728878080	2728878080	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.21 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000730000029
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	47.2272682
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.004999999989
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0250000004
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	407.382568
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	5.11670542
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	171.811264
k_AutoCntrHiSpdTimer1_mS_u16	44272
k_AutoCntrHiSpdTimer2_mS_u16	21109
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	84.4373398
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	457.561249
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	9.91502762
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	73.4022675
k_AutoCntrHiSpdTimer4_mS_u16	15330
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	31.4061165
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.000199999995
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0231999997
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	665.639221
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	3.52301908
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	52.7404022
k_AutoCntrLoSpdTimer1_mS_u16	58388
k_AutoCntrLoSpdTimer2_mS_u16	25970
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.004999999989
k_SLPEnableBFCheck_Cnt_Igc	0
k_SLPHwAuthority_Uls_f32	0.119999997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	992.554016
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	824746752

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	457.561249	457.561249 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	73.4022675	73.4022675 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	9.91502762	9.91502762 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	84.4373398	84.4373398 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	44272	44272 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	15330	15330 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000291526318	0.00029149701 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	407.382568	407.382568 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	171.811264	171.811264 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.11670542	5.11670542 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	47.2272682	47.2272682 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	44272	44272 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	21109	21109 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	665.639221	665.639221 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	52.7404022	52.7404022 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.52301908	3.52301908 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	31.4061165	31.4061165 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	58388	58388 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	25970	25970 ± 2	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	824746752	824746752	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000291526318	0.00029149701 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.119999997	0.119999997	✓
VehDyn_SLPHwPos_HwDeg_M_f32	992.554016	992.554016	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.22 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000769999984
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	3.12775111
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00520000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.063000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	602.94635
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	10.0753288
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	221.670746
k_AutoCntrHiSpdTimer1_mS_u16	58454
k_AutoCntrHiSpdTimer2_mS_u16	22220
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	68.7160416
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	155.820129
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	2.29925823
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	81.0852356
k_AutoCntrHiSpdTimer4_mS_u16	20609
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	29.8536549
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.100000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00249999994
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	255.177094
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	3.44891739
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	221.320831
k_AutoCntrLoSpdTimer1_mS_u16	46162
k_AutoCntrLoSpdTimer2_mS_u16	50158
k_AutoCntrPinTrqLPCoeffKn_Hz_f32	0.00520000001
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.126599997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	968.520996
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	309385728

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	155.820129	155.820129 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	81.0852356	81.0852356 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.29925823	2.29925823 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	68.7160416	68.7160416 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	58454	58454 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	20609	20609 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	3.14116478e-005	3.1399999e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	602.94635	602.94635 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	221.670746	221.670746 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	10.0753288	10.0753288 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	3.12775111	3.12775111 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	58454	58454 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	22220	22220 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	255.177094	255.177094 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	221.320831	221.320831 ± 0.5	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.44891739	3.44891739 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	29.8536549	29.8536549 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	46162	46162 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	50158	50158 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	309385728	309385728	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	3.14116478e-005	3.1399999e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.23 (Repeat Count = 1) ✓

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000809999998
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	23.8171101
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0759999976
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00200000009
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	79.877243
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	3.8524735
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	164.951675
k_AutoCntrHiSpdTimer1_mS_u16	16138
k_AutoCntrHiSpdTimer2_mS_u16	23331
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	78.1467133
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	32.7761002
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	2.07399654
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	38.1457062
k_AutoCntrHiSpdTimer4_mS_u16	46166
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	81.6020432
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.000199999995
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00600000005
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	367.93277
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	10.7041206
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	150.688919
k_AutoCntrLoSpdTimer1_mS_u16	22835
k_AutoCntrLoSpdTimer2_mS_u16	13127
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0759999976
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.133200005
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	944.487976
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	4164171008

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	32.7761002	32.7761002 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	38.1457062	38.1457062 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.07399654	2.07399654 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	78.1467133	78.1467133 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	16138	16138 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	46166	46166 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	79.877243	79.877243 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	164.951675	164.951675 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.8524735	3.8524735 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	23.8171101	23.8171101 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16138	16138 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	23331	23331 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4164171008	4164171008	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000954568386	0.000954588002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	367.93277	367.93277 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	150.688919	150.688919 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.7041206	10.7041206 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	81.6020432	81.6020432 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	22835	22835 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	13127	13127 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000954568386	0.000954588002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.133200005	0.133200005	✓
VehDyn_SLPHwPos_HwDeg_M_f32	944.487976	944.487976	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.24 (Repeat Count = 1) ✓

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000850000011
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	37.7641106
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0225000009
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00499999989
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	12.4052467
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	16.2494946
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	168.530762
k_AutoCntrHiSpdTimer1_mS_u16	18642
k_AutoCntrHiSpdTimer2_mS_u16	24442
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	5.24184275
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	638.897888
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	7.65499401
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	82.6361694
k_AutoCntrHiSpdTimer4_mS_u16	51569
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	31.2713699
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0350000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.000199999995
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	537.7453
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	8.52731705
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	193.256531
k_AutoCntrLoSpdTimer1_mS_u16	29076
k_AutoCntrLoSpdTimer2_mS_u16	43868
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0225000009
k_SLPEnableBFCheck_Cnt_Igc	1
k_SLPHwAuthority_Uls_f32	0.139799997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	920.455017
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFAActive_Cnt_Igc	target_VehDyn_Init1_FaultBFAActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFAActive_Cnt_Igc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	437658624

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	638.897888	638.897888 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	82.6361694	82.6361694 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	7.65499401	7.65499401 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	5.24184275	5.24184275 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	18642	18642 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	51569	51569 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	12.4052467	12.4052467 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	168.530762	168.530762 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.2494946	16.2494946 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	37.7641106	37.7641106 ± 0.0625	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	18642	18642 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	24442	24442 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00028270483	0.000282702997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	537.7453	537.7453 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	193.256531	193.256531 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.52731705	8.52731705 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	31.2713699	31.2713699 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	29076	29076 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	43868	43868 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00028270483	0.000282702997 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.25 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000890000025
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	39.3153801
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.063000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0491000004
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	349.296539
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	1.81056666
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	65.5278778
k_AutoCntrHiSpdTimer1_mS_u16	35706
k_AutoCntrHiSpdTimer2_mS_u16	25553
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	23.2325249
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	344.000977
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	1.13386405
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	122.149155
k_AutoCntrHiSpdTimer4_mS_u16	10394
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	37.9574203
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0560000017
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.100000001
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	37.5066719
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	2.22880888
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	237.538071
k_AutoCntrLoSpdTimer1_mS_u16	32821
k_AutoCntrLoSpdTimer2_mS_u16	53946
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.063000001
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.146400005
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	896.421997
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	3941357312

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	344.000977	344.000977 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	122.149155	122.149155 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	1.13386405	1.13386405 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	23.2325249	23.2325249 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	35706	35706 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	10394	10394 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	349.296539	349.296539 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	65.5278778	65.5278778 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.81056666	1.81056666 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	39.3153801	39.3153801 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	35706	35706 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	25553	25553 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000616788864	0.000616818026 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	37.5066719	37.5066719 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	237.538071	237.538071 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	2.22880888	2.22880888 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	37.9574203	37.9574203 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	32821	32821 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	53946	53946 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.146400005	0.146400005	✓
VehDyn_SLPHwPos_HwDeg_M_f32	896.421997	896.421997	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.26 (Repeat Count = 1) ✓

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00092999998		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	100		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00200000009		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.008999999961		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	643.884338		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	7.05844259		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	123.333405		
k_AutoCntrHiSpdTimer1_mS_u16	57034		
k_AutoCntrHiSpdTimer2_mS_u16	26664		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	60.1197929		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	469.973907		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	20		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	236.657074		
k_AutoCntrHiSpdTimer4_mS_u16	25061		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	40.504673		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0670000017		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.000199999995		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	415.313232		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	5.79858875		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	84.7403259		
k_AutoCntrLoSpdTimer1_mS_u16	40437		
k_AutoCntrLoSpdTimer2_mS_u16	13059		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00200000009		
k_SLPEnableBFCheck_Cnt_Igc	1		
k_SLPHwAuthority_Uls_f32	0.152999997		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	872.388977		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	1		
tgt_GetSystemTime_mS_u32_CurrentTime	3304439296		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	469.973907	469.973907 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	236.657074	236.657074 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	60.1197929	60.1197929 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	57034	57034 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	25061	25061 ± 2	✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3304439296	3304439296	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	643.884338	643.884338 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	123.333405	123.333405 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.05844259	7.05844259 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	57034	57034 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	26664	26664 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3304439296	3304439296	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	415.313232	415.313232 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	84.7403259	84.7403259 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.79858875	5.79858875 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	40.504673	40.504673 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	40437	40437 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	13059	13059 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3304439296	3304439296	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.27 (Repeat Count = 1)

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000969999994		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	43.0070915		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0340000018		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	532.273438		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	14.9590406		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	239.526199		
k_AutoCntrHiSpdTimer1_mS_u16	56740		
k_AutoCntrHiSpdTimer2_mS_u16	27775		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	99.817543		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	0		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	20		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	9.99269104		
k_AutoCntrHiSpdTimer4_mS_u16	18881		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	84.9841919		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00600000005		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00449999981		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	328.558777		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	13.5039825		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	138.992935		
k_AutoCntrLoSpdTimer1_mS_u16	2291		
k_AutoCntrLoSpdTimer2_mS_u16	58929		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989		
k_SLPEnableBFCheck_Cnt_lgc	0		
k_SLPHwAuthority_Uls_f32	0.159600005		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	848.356018		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	2167769344		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	0	0 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	9.99269104	9.99269104 ± 0.5	✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	99.817543	99.817543 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	56740	56740 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	18881	18881 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	5.65648079e-005	5.65000009e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	532.273438	532.273438 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	239.526199	239.526199 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.9590406	14.9590406 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	43.0070915	43.0070915 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	56740	56740 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	27775	27775 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000427186489	0.00042716501 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	328.558777	328.558777 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	138.992935	138.992935 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	13.5039825	13.5039825 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	84.9841919	84.9841919 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	2291	2291 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58929	58929 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	5.65648079e-005	5.65000009e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.159600005	0.159600005	✓
VehDyn_SLPHwPos_HwDeg_M_f32	848.356018	848.356018	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.28 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	1.99999995e-005
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	84.4737091
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00520000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0458000004
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	609.83606
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	3.01206732
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	158.11969
k_AutoCntrHiSpdTimer1_mS_u16	42810
k_AutoCntrHiSpdTimer2_mS_u16	28886
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	78.8331146
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	700
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	12.0596523
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	195.407715
k_AutoCntrHiSpdTimer4_mS_u16	10213
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	41.3693123
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00779999979
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0430000015
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	209.013977
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	17.8311005
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	20.6569824
k_AutoCntrLoSpdTimer1_mS_u16	38868
k_AutoCntrLoSpdTimer2_mS_u16	57944
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00520000001
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.166199997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	824.322998
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1

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VehDyn_Init1

Name	Input Value		
tgt_GetSystemTime_mS_u32_CurrentTime	3714197504		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	195.407715	195.407715 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.0596523	12.0596523 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	78.8331146	78.8331146 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	42810	42810 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	10213	10213 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000540196896	0.000540208013 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	609.83606	609.83606 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	158.11969	158.11969 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	3.01206732	3.01206732 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	84.4737091	84.4737091 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	42810	42810 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	28886	28886 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	209.013977	209.013977 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	20.6569824	20.6569824 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	17.8311005	17.8311005 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.3693123	41.3693123 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	38868	38868 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	57944	57944 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000540196896	0.000540208013 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.29 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	3.9999999e-005
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	15.5979691
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0320999995
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00499999989
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	579.395874
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	7.52602291
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	32.8235931
k_AutoCntrHiSpdTimer1_mS_u16	20288
k_AutoCntrHiSpdTimer2_mS_u16	29997
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	17.897419
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	334.049988
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	0.106655896
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	18.8970184
k_AutoCntrHiSpdTimer4_mS_u16	39085
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	73.1804352
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0250000004
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	436.510376
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	10.4573536
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	162.399216
k_AutoCntrLoSpdTimer1_mS_u16	53970
k_AutoCntrLoSpdTimer2_mS_u16	52282
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0320999995
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.172800004
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1

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VehDyn_Init1

Name	Input Value		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	800.289978		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFAActive_Cnt_Igc	target_VehDyn_Init1_FaultBFAActive_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFAActive_Cnt_Igc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	3323480832		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	334.049988	334 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	18.8970184	18.8970184 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	0.106655896	0.106655896 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	17.897419	17.897419 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20288	20288 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	39085	39085 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3323480832	3323480832	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3323480832	3323480832	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	579.395874	579.395874 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	32.8235931	32.8235931 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.52602291	7.52602291 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	15.5979691	15.5979691 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20288	20288 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	29997	29997 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3323480832	3323480832	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3323480832	3323480832	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	436.510376	436.510376 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	162.399216	162.399216 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.4573536	10.4573536 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	73.1804352	73.1804352 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	53970	53970 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	52282	52282 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3323480832	3323480832	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3323480832	3323480832	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.172800004	0.172800004	✓
VehDyn_SLPHwPos_HwDeg_M_f32	800.289978	800.289978	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.30 (Repeat Count = 1)		
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	5.99999985e-005	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	49.3403549	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0850000009	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00899999961	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	370.660736	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	13.1525526	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	221.258759	
k_AutoCntrHiSpdTimer1_mS_u16	7034	
k_AutoCntrHiSpdTimer2_mS_u16	31108	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	61.0589485	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	147.148361	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	12.9904881	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	0	
k_AutoCntrHiSpdTimer4_mS_u16	119	
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	66.5350952	
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0344000012	
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.063000001	
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	454.12265	
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	3.94327784	
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	104.969391	
k_AutoCntrLoSpdTimer1_mS_u16	20423	
k_AutoCntrLoSpdTimer2_mS_u16	31368	

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VehDyn_Init1

Name	Input Value
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.085000009
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.179399997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	776.257019
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	71426560

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	147.148361	147.148361 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	0	0 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.9904881	12.9904881 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	61.0589485	61.0589485 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	7034	7034 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	119	119 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	370.660736	370.660736 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	221.258759	221.258759 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	13.1525526	13.1525526 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	49.3403549	49.3403549 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	7034	7034 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	31108	31108 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	454.12265	454.12265 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	104.969391	104.969391 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.94327784	3.94327784 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	66.5350952	66.5350952 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	20423	20423 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31368	31368 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.31 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	7.9999998e-005	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	81.7051773	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00899999961	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0250000004	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	275.970886	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	16.2052765	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	10.3126373	
k_AutoCntrHiSpdTimer1_mS_u16	30504	
k_AutoCntrHiSpdTimer2_mS_u16	32219	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	66.4485626	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	625.957947	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	15.7019682	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	255	
k_AutoCntrHiSpdTimer4_mS_u16	45323	
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	41.044548	
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0458000004	
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00200000009	
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	184.918839	

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VehDyn_Init1

Name	Input Value
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	18.828949
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	245.86824
k_AutoCntrLoSpdTimer1_mS_u16	7034
k_AutoCntrLoSpdTimer2_mS_u16	39056
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00899999961
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.186000004
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	752.223999
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	2430672128

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	625.957947	625.957947 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	15.7019682	15.7019682 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	66.4485626	66.4485626 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	30504	30504 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	45323	45323 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2430672128	2430672128	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2430672128	2430672128	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	275.970886	275.970886 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	10.3126373	10.3126373 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.2052765	16.2052765 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	81.7051773	81.7051773 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	30504	30504 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	32219	32219 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2430672128	2430672128	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2430672128	2430672128	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	184.918839	184.918839 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	245.86824	245.86824 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.828949	18.828949 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.044548	41.044548 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	7034	7034 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39056	39056 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2430672128	2430672128	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2430672128	2430672128	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.186000004	0.186000004	✓
VehDyn_SLPHwPos_HwDeg_M_f32	752.223999	752.223999	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.32 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	9.99999975e-005	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	32.0222664	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.004999999989	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.063000001	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	575.91394	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.9376688	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	204.072876	
k_AutoCntrHiSpdTimer1_mS_u16	5222	
k_AutoCntrHiSpdTimer2_mS_u16	33330	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	93.8445969	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	312.352844	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	8.16609764	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	68.0500031	
k_AutoCntrHiSpdTimer4_mS_u16	31042	

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VehDyn_Init1

Name	Input Value
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	95.9834061
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00499999989
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00499999989
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	195.818787
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	7.82910013
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	29.3435669
k_AutoCntrLoSpdTimer1_mS_u16	25532
k_AutoCntrLoSpdTimer2_mS_u16	27401
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.192599997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	728.190979
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	2242866176

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	312.352844	312.352844 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	68.0500031	68 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.16609764	8.16609764 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	93.8445969	93.8445969 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	5222	5222 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31042	31042 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	575.91394	575.91394 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	204.072876	204.072876 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.9376688	8.9376688 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.0222664	32.0222664 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	5222	5222 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	33330	33330 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	195.818787	195.818787 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	29.3435669	29.3435669 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.82910013	7.82910013 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	95.9834061	95.9834061 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	25532	25532 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27401	27401 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.33 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000119999997
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	7.2738266
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00899999961
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00200000009
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	460.901886
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.00629902
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	92.026535
k_AutoCntrHiSpdTimer1_mS_u16	16931
k_AutoCntrHiSpdTimer2_mS_u16	34441
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	51.3993683

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VehDyn_Init1

Name	Input Value
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	119.134666
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	0
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	103.723984
k_AutoCntrHiSpdTimer4_mS_u16	51145
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	65.2026672
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0250000004
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	581.690918
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	6.79465103
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	236.401962
k_AutoCntrLoSpdTimer1_mS_u16	46296
k_AutoCntrLoSpdTimer2_mS_u16	9393
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00899999961
k_SLPEnableBFCheck_Cnt_Igc	0
k_SLPHwAuthority_Uls_f32	0.199200004
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	704.15802
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	2269150976

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	119.134666	119.134666 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	103.723984	103.723984 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	0	0 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	51.3993683	51.3993683 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	16931	16931 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	51145	51145 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	460.901886	460.901886 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	92.026535	92.026535 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.00629902	8.00629902 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	7.2738266	7.2738266 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16931	16931 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	34441	34441 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	581.690918	581.690918 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	236.401962	236.401962 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.79465103	6.79465103 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	65.2026672	65.2026672 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	46296	46296 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	9393	9393 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.199200004	0.199200004	✓
VehDyn_SLPHwPos_HwDeg_M_f32	704.15802	704.15802	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.34 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000140000004	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	91.5981827	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0250000004	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00499999989	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	160.17424	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	4.19048309	

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VehDyn_Init1

Name	Input Value
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	28.4624329
k_AutoCntrHiSpdTimer1_mS_u16	20459
k_AutoCntrHiSpdTimer2_mS_u16	35552
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	53.1939697
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	201.577209
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	194.557587
k_AutoCntrHiSpdTimer4_mS_u16	55301
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	52.1249008
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0250000004
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.063000001
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	578.046082
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	16.1874886
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	158.773651
k_AutoCntrLoSpdTimer1_mS_u16	21486
k_AutoCntrLoSpdTimer2_mS_u16	38584
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0250000004
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.205799997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	680.125
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	3533260288

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	201.577209	201.577209 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	194.557587	194.557587 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	53.1939697	53.1939697 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20459	20459 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	55301	55301 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3533260288	3533260288	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3533260288	3533260288	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	160.17424	160.17424 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	28.4624329	28.4624329 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.19048309	4.19048309 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	91.5981827	91.5981827 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20459	20459 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	35552	35552 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3533260288	3533260288	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3533260288	3533260288	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799988e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	578.046082	578.046082 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	158.773651	158.773651 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.1874886	16.1874886 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.1249008	52.1249008 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21486	21486 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	38584	38584 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3533260288	3533260288	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3533260288	3533260288	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.35 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000159999996	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	29.3254967	

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VehDyn_Init1

Name	Input Value
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.063000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00520000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	677.585876
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	7.90520477
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	186.264114
k_AutoCntrHiSpdTimer1_mS_u16	55165
k_AutoCntrHiSpdTimer2_mS_u16	36663
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	39.3708954
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	525.822998
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	14.0500002
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	44.416153
k_AutoCntrHiSpdTimer4_mS_u16	40693
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	22.5556393
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.063000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00200000009
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	413.003265
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	4.57800722
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	89.0179596
k_AutoCntrLoSpdTimer1_mS_u16	24720
k_AutoCntrLoSpdTimer2_mS_u16	36760
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.063000001
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.212400004
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	656.09198
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	812314880

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	525.822998	525.822998 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	44.416153	44.416153 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	14.0500002	14.0100002 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	39.3708954	39.3708954 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	55165	55165 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	40693	40693 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	812314880	812314880	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	812314880	812314880	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	677.585876	677.585876 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	186.264114	186.264114 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.90520477	7.90520477 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	29.3254967	29.3254967 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	55165	55165 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	36663	36663 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	812314880	812314880	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	812314880	812314880	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	413.003265	413.003265 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	89.0179596	89.0179596 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.57800722	4.57800722 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	22.5556393	22.5556393 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	24720	24720 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36760	36760 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	812314880	812314880	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	812314880	812314880	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.212400004	0.212400004	✓
VehDyn_SLPHwPos_HwDeg_M_f32	656.09198	656.09198	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1		✓

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VehDyn_Init1

Test Step 2.36 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000180000003
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	92.2299118
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00980000012
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	235.852432
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	18.6467209
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	179.530945
k_AutoCntrHiSpdTimer1_mS_u16	51432
k_AutoCntrHiSpdTimer2_mS_u16	37774
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	0
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	598.552856
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	4.44533634
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	239.762329
k_AutoCntrHiSpdTimer4_mS_u16	57193
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	58.8585777
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00200000009
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00499999989
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	691.251282
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	9.38685799
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	38.2069092
k_AutoCntrLoSpdTimer1_mS_u16	44855
k_AutoCntrLoSpdTimer2_mS_u16	51238
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.218999997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	632.059021
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	3345084416

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	598.552856	598.552856 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	239.762329	239.762329 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.44533634	4.44533634 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	0	0 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	51432	51432 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	57193	57193 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3345084416	3345084416	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3345084416	3345084416	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	235.852432	235.852432 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	179.530945	179.530945 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.6467209	18.6467209 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	92.2299118	92.2299118 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	51432	51432 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	37774	37774 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3345084416	3345084416	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3345084416	3345084416	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000123143196	0.000123143007 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	691.251282	691.251282 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	38.2069092	38.2069092 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	9.38685799	9.38685799 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	58.8585777	58.8585777 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	44855	44855 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	51238	51238 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3345084416	3345084416	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3345084416	3345084416	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

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VehDyn_Init1

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.37 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000199999995
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	41.6950645
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0250000004
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00989999995
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	463.985962
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.70262909
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	255
k_AutoCntrHiSpdTimer1_mS_u16	12734
k_AutoCntrHiSpdTimer2_mS_u16	38885
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	100
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	179.399078
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	12.4598589
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	82.9581757
k_AutoCntrHiSpdTimer4_mS_u16	10910
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	75.6018066
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00499999999
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0344000012
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	638.585999
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	4.9565835
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	122.874435
k_AutoCntrLoSpdTimer1_mS_u16	26195
k_AutoCntrLoSpdTimer2_mS_u16	22037
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0250000004
k_SLPEnableBFCheck_Cnt_Igc	0
k_SLPHwAuthority_Uls_f32	0.225600004
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	608.026001
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	2704864000

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	179.399078	179.399078 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	82.9581757	82.9581757 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.4598589	12.4598589 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	12734	12734 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	10910	10910 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2704864000	2704864000	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2704864000	2704864000	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	463.985962	463.985962 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.70262909	8.70262909 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	41.6950645	41.6950645 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	12734	12734 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	38885	38885 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2704864000	2704864000	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2704864000	2704864000	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000124394894	0.000124398997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	638.585999	638.585999 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	122.874435	122.874435 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	4.9565835	4.9565835 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	75.6018066	75.6018066 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	26195	26195 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22037	22037 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2704864000	2704864000	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2704864000	2704864000	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.225600004	0.225600004	✓
VehDyn_SLPHwPos_HwDeg_M_f32	608.026001	608.026001	✓

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Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.38 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000220000002
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	75.4518967
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.063000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00749999983
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	573.473022
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	1.88103604
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	99.2100525
k_AutoCntrHiSpdTimer1_mS_u16	4764
k_AutoCntrHiSpdTimer2_mS_u16	39996
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	79.0500031
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	243.44046
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	17.900116
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	17.667511
k_AutoCntrHiSpdTimer4_mS_u16	16349
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	46.103508
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00520000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0458000004
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	159.033066
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	18.4460754
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	56.1687317
k_AutoCntrLoSpdTimer1_mS_u16	43190
k_AutoCntrLoSpdTimer2_mS_u16	3186
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.063000001
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.232199997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	583.992981
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	662694400

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	243.44046	243.44046 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	17.667511	17.667511 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	17.900116	17.900116 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	79.0500031	79.0500031 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	4764	4764 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	16349	16349 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	662694400	662694400	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	662694400	662694400	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	573.473022	573.473022 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	99.2100525	99.2100525 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	1.88103604	1.88103604 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	75.4518967	75.4518967 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	4764	4764 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	39996	39996 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	662694400	662694400	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	662694400	662694400	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	9.42349434e-005	9.4199997e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	159.033066	159.033066 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	56.1687317	56.1687317 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.4460754	18.4460754 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	46.103508	46.103508 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	43190	43190 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3186	3186 ± 2	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	662694400	662694400	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	662694400	662694400	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.39 (Repeat Count = 1) ✓

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000239999994
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	43.6620522
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00200000009
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0149999997
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	448.286377
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	144.583755
k_AutoCntrHiSpdTimer1_mS_u16	0
k_AutoCntrHiSpdTimer2_mS_u16	41107
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	62.654911
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	608.513794
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	11.5653687
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	76.64888
k_AutoCntrHiSpdTimer4_mS_u16	51504
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	91.3417435
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0320999995
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00499999989
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	487.27597
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	12.8190889
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	254.395218
k_AutoCntrLoSpdTimer1_mS_u16	30404
k_AutoCntrLoSpdTimer2_mS_u16	30349
k_AutoCntrPinTrqLPCoeffKn_Hz_f32	0.00200000009
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.238800004
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	559.960022
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	2303132928

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	608.513794	608.513794 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	76.64888	76.64888 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	11.5653687	11.5653687 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	62.654911	62.654911 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	51504	51504 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2303132928	2303132928	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2303132928	2303132928	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.279998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	448.286377	448.286377 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	144.583755	144.583755 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	43.6620522	43.6620522 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	41107	41107 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2303132928	2303132928	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2303132928	2303132928	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000188469887	0.000188478007 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	487.27597	487.27597 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	254.395218	254.395218 ± 0.5	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.8190889	12.8190889 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	91.3417435	91.3417435 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	30404	30404 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	30349	30349 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2303132928	2303132928	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2303132928	2303132928	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.238800004	0.238800004	✓
VehDyn_SLPHwPos_HwDeg_M_f32	559.960022	559.960022	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.40 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000260000001
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	75.7771378
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00499999989
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	170.210068
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	9.64343548
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	112.884521
k_AutoCntrHiSpdTimer1_mS_u16	60000
k_AutoCntrHiSpdTimer2_mS_u16	42218
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	97.1869812
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	601.888977
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	166.376648
k_AutoCntrHiSpdTimer4_mS_u16	57879
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	28.5844917
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0850000009
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	686.9823
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	7.86307621
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	33.3876343
k_AutoCntrLoSpdTimer1_mS_u16	10412
k_AutoCntrLoSpdTimer2_mS_u16	3277
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.245399997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	535.927002
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	4129141760

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	601.888977	601.888977 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	166.376648	166.376648 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	97.1869812	97.1869812 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	57879	57879 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4129141760	4129141760	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4129141760	4129141760	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	170.210068	170.210068 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	112.884521	112.884521 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	9.64343548	9.64343548 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	75.7771378	75.7771378 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	42218	42218 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4129141760	4129141760	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4129141760	4129141760	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	686.9823	686.9823 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	33.3876343	33.3876343 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.86307621	7.86307621 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	28.5844917	28.5844917 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	10412	10412 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	3277	3277 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4129141760	4129141760	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4129141760	4129141760	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.41 (Repeat Count = 1) ✓

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000280000007		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	36.63274		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0344000012		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0250000004		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	292.78537		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	15.4148769		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	70.7165985		
k_AutoCntrHiSpdTimer1_mS_u16	13897		
k_AutoCntrHiSpdTimer2_mS_u16	43329		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	14.9879189		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	291.415405		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	7.84722853		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	41.1777191		
k_AutoCntrHiSpdTimer4_mS_u16	44494		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	67.4213715		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00899999961		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0250000004		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	170.99588		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	8.17953968		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	7.39476013		
k_AutoCntrLoSpdTimer1_mS_u16	16683		
k_AutoCntrLoSpdTimer2_mS_u16	22497		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0344000012		
k_SLPEnableBFCheck_Cnt_Igc	0		
k_SLPHwAuthority_Uls_f32	0.252000004		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	511.894012		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	2836768512		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	291.415405	291.415405 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	41.1777191	41.1777191 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	7.84722853	7.84722853 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	14.9879189	14.9879189 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	13897	13897 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	44494	44494 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2836768512	2836768512	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2836768512	2836768512	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	292.78537	292.78537 ± 0.2	✔
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	70.7165985	70.7165985 ± 0.5	✔
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	15.4148769	15.4148769 ± 0.04	✔
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	36.63274	36.63274 ± 0.0625	✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	13897	13897 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	43329	43329 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2836768512	2836768512	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2836768512	2836768512	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	170.99588	170.99588 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	7.39476013	7.39476013 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.17953968	8.17953968 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	67.4213715	67.4213715 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	16683	16683 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	22497	22497 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2836768512	2836768512	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2836768512	2836768512	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.252000004	0.252000004	✓
VehDyn_SLPHwPos_HwDeg_M_f32	511.894012	511.894012	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.42 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000300000014
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	77.1508331
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0458000004
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.063000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	263.707825
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	5.88711405
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	81.0172424
k_AutoCntrHiSpdTimer1_mS_u16	38792
k_AutoCntrHiSpdTimer2_mS_u16	44440
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	90.0811462
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	417.567505
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	13.1425486
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	224.821381
k_AutoCntrHiSpdTimer4_mS_u16	0
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	89.9028549
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00499999989
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.063000001
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	374.245026
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	18.0723743
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	88.4202576
k_AutoCntrLoSpdTimer1_mS_u16	5235
k_AutoCntrLoSpdTimer2_mS_u16	27074
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0458000004
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.258599997
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	487.860992
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	2478427648

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	417.567505	417.567505 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	224.821381	224.821381 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	13.1425486	13.1425486 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	90.0811462	90.0811462 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	38792	38792 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2478427648	2478427648	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2478427648	2478427648	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	263.707825	263.707825 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	81.0172424	81.0172424 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.88711405	5.88711405 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	77.1508331	77.1508331 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38792	38792 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	44440	44440 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2478427648	2478427648	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2478427648	2478427648	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	374.245026	374.245026 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	88.4202576	88.4202576 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.0723743	18.0723743 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	89.9028549	89.9028549 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	5235	5235 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27074	27074 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2478427648	2478427648	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2478427648	2478427648	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.43 (Repeat Count = 1)

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000319999992		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	3.27935433		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.004999999989		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.002000000009		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	517.932861		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	4.54822206		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	190.724686		
k_AutoCntrHiSpdTimer1_mS_u16	28556		
k_AutoCntrHiSpdTimer2_mS_u16	45551		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	95.2508621		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	132.854568		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	2.87444711		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	41.7497711		
k_AutoCntrHiSpdTimer4_mS_u16	60000		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	28.4195251		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.008999999961		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.002000000009		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	74.5651398		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	12.3046961		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	140.20314		
k_AutoCntrLoSpdTimer1_mS_u16	58736		
k_AutoCntrLoSpdTimer2_mS_u16	17880		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.004999999989		
k_SLPEnableBFCheck_Cnt_Igc	0		
k_SLPHwAuthority_Uls_f32	0.265199989		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	463.828003		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	4180236544		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	132.854568	132.854568 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	41.7497711	41.7497711 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.87444711	2.87444711 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	95.2508621	95.2508621 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	28556	28556 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	60000	60000 ± 2	✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4180236544	4180236544	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4180236544	4180236544	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	517.932861	517.932861 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	190.724686	190.724686 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.54822206	4.54822206 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	3.27935433	3.27935433 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	28556	28556 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	45551	45551 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4180236544	4180236544	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4180236544	4180236544	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	74.5651398	74.5651398 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	140.20314	140.20314 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.3046961	12.3046961 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	28.4195251	28.4195251 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	58736	58736 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	17880	17880 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4180236544	4180236544	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4180236544	4180236544	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.265199989	0.265199989	✓
VehDyn_SLPHwPos_HwDeg_M_f32	463.828003	463.828003	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.44 (Repeat Count = 1)

Name	Input Value	Actual Value	Expected Value	Result
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime			
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2			
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000339999999			
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	25.0328922			
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00899999961			
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00499999989			
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	612.468079			
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	13.018939			
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	63.774231			
k_AutoCntrHiSpdTimer1_mS_u16	16090			
k_AutoCntrHiSpdTimer2_mS_u16	46662			
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	38.5810089			
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	661.950806			
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	15.5126753			
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	111.386475			
k_AutoCntrHiSpdTimer4_mS_u16	45770			
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	37.1736603			
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0250000004			
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00499999989			
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	700			
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	19.562748			
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	236.276367			
k_AutoCntrLoSpdTimer1_mS_u16	17015			
k_AutoCntrLoSpdTimer2_mS_u16	58102			
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00899999961			
k_SLPEnableBFCheck_Cnt_Igc	1			
k_SLPHwAuthority_Uls_f32	0.271800011			
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0			
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	439.795013			
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc			
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset			
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	1			
tgt_GetSystemTime_mS_u32_CurrentTime	3368466432			
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	661.950806	661.950806 ± 0.2		✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	111.386475	111.386475 ± 0.5		✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	15.5126753	15.5126753 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	38.5810089	38.5810089 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	16090	16090 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	45770	45770 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3368466432	3368466432	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3368466432	3368466432	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	612.468079	612.468079 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	63.774231	63.774231 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	13.018939	13.018939 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	25.0328922	25.0328922 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16090	16090 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	46662	46662 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3368466432	3368466432	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3368466432	3368466432	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	236.276367	236.276367 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	19.562748	19.562748 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	37.1736603	37.1736603 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	17015	17015 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58102	58102 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3368466432	3368466432	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3368466432	3368466432	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.45 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000360000005
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	22.7924805
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0250000004
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0344000012
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	0
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	14.1099701
k_AutoCntrHiSpdTimer1_mS_u16	14255
k_AutoCntrHiSpdTimer2_mS_u16	47773
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	98.5101929
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	181.227158
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	15.03372
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	237.210739
k_AutoCntrHiSpdTimer4_mS_u16	1971
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	1.43633437
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.063000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0052000001
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	473.999298
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	10.8610411
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	137.791061
k_AutoCntrLoSpdTimer1_mS_u16	37086
k_AutoCntrLoSpdTimer2_mS_u16	772
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0250000004
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.278400004
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	415.761993
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0

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VehDyn_Init1

Name	Input Value		
tgt_GetSystemTime_mS_u32_CurrentTime	170564352		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	181.227158	181.227158 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	237.210739	237.210739 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	15.03372	15.03372 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	98.5101929	98.5101929 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	14255	14255 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	1971	1971 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	170564352	170564352	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	170564352	170564352	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	0	0 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	14.1099701	14.1099701 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	22.7924805	22.7924805 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	14255	14255 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	47773	47773 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	170564352	170564352	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	170564352	170564352	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	473.999298	473.999298 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	137.791061	137.791061 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	10.8610411	10.8610411 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	1.43633437	1.43633437 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	37086	37086 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	772	772 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	170564352	170564352	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	170564352	170564352	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.278400004	0.278400004	✓
VehDyn_SLPHwPos_HwDeg_M_f32	415.761993	415.761993	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.46 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000380000012
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	36.1406059
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.063000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0458000004
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	700
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	15.1538467
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	158.649628
k_AutoCntrHiSpdTimer1_mS_u16	43706
k_AutoCntrHiSpdTimer2_mS_u16	48884
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	40.6512985
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	12.3902884
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	18.3508968
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	119.534821
k_AutoCntrHiSpdTimer4_mS_u16	5814
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	29.760561
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.061999999
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0350000001
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	11.0084457
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	6.93631697
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	104.043854
k_AutoCntrLoSpdTimer1_mS_u16	18398
k_AutoCntrLoSpdTimer2_mS_u16	39001
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0630000001
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.284999996
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0

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VehDyn_Init1

Name	Input Value
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	391.729004
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFAActive_Cnt_Igc	target_VehDyn_Init1_FaultBFAActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFAActive_Cnt_Igc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	625668608

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	12.3902884	12.3902884 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	119.534821	119.534821 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.3508968	18.3508968 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	40.6512985	40.6512985 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	43706	43706 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	5814	5814 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	625668608	625668608	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	625668608	625668608	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000778794289	0.000778811984 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	158.649628	158.649628 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	15.1538467	15.1538467 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	36.1406059	36.1406059 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	43706	43706 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	48884	48884 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	625668608	625668608	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	625668608	625668608	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	11.0084457	11.0084457 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	104.043854	104.043854 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.93631697	6.93631697 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	29.760561	29.760561 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	18398	18398 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	39001	39001 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	625668608	625668608	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	625668608	625668608	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000778794289	0.000778811984 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.47 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000399999999	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	96.1530533	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00200000009	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.004999999989	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	328.049988	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	16.2922134	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	42.3900299	
k_AutoCntrHiSpdTimer1_mS_u16	44765	
k_AutoCntrHiSpdTimer2_mS_u16	49995	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	69.3795242	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	225.86203	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	17.1959343	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	253.171951	
k_AutoCntrHiSpdTimer4_mS_u16	45170	
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	99.388649	
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.004999999989	
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0560000017	
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	403.203857	
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	18.2375278	
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	216.894852	
k_AutoCntrLoSpdTimer1_mS_u16	51139	
k_AutoCntrLoSpdTimer2_mS_u16	36841	

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VehDyn_Init1

Name	Input Value
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00200000009
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.291599989
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	367.696014
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	1711664384

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	225.86203	225.86203 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	253.171951	253.171951 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	17.1959343	17.1959343 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	69.3795242	69.3795242 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	44765	44765 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	45170	45170 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1711664384	1711664384	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1711664384	1711664384	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	328.049988	328 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	42.3900299	42.3900299 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.2922134	16.2922134 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	96.1530533	96.1530533 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	44765	44765 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	49995	49995 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1711664384	1711664384	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1711664384	1711664384	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	403.203857	403.203857 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	216.894852	216.894852 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	18.2375278	18.2375278 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	99.388649	99.388649 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	51139	51139 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	36841	36841 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1711664384	1711664384	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1711664384	1711664384	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.291599989	0.291599989	✓
VehDyn_SLPHwPos_HwDeg_M_f32	367.696014	367.696014	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.48 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000419999997	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	64.1327362	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00899999961	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	320.858643	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	11.4043941	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	0	
k_AutoCntrHiSpdTimer1_mS_u16	9606	
k_AutoCntrHiSpdTimer2_mS_u16	51106	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	57.9277039	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	420.750946	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	13.9586134	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	110.432434	
k_AutoCntrHiSpdTimer4_mS_u16	40701	
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	76.8895721	
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00899999961	
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0670000017	
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	70.1366196	

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VehDyn_Init1

Name	Input Value
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	5.44028044
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	211.513733
k_AutoCntrLoSpdTimer1_mS_u16	19138
k_AutoCntrLoSpdTimer2_mS_u16	31995
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999999
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.298200011
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	343.662994
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	1568734208

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	420.750946	420.750946 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	110.432434	110.432434 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	13.9586134	13.9586134 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	57.9277039	57.9277039 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	9606	9606 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	40701	40701 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1568734208	1568734208	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1568734208	1568734208	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	320.858643	320.858643 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	0	0 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	11.4043941	11.4043941 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	64.1327362	64.1327362 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	9606	9606 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	51106	51106 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1568734208	1568734208	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1568734208	1568734208	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	70.1366196	70.1366196 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	211.513733	211.513733 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.44028044	5.44028044 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	76.8895721	76.8895721 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	19138	19138 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	31995	31995 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1568734208	1568734208	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1568734208	1568734208	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.49 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000440000003	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	88.5801086	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00520000001	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0250000004	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	525.752197	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	13.4235058	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	255	
k_AutoCntrHiSpdTimer1_mS_u16	42277	
k_AutoCntrHiSpdTimer2_mS_u16	52217	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	38.5221024	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	265.609314	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	5.71470642	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	196.135361	
k_AutoCntrHiSpdTimer4_mS_u16	54573	

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VehDyn_Init1

Name	Input Value
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	58.6687202
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0250000004
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00600000005
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	72.2188644
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	5.45036793
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	172.141464
k_AutoCntrLoSpdTimer1_mS_u16	47724
k_AutoCntrLoSpdTimer2_mS_u16	1764
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00520000001
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.304800004
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	319.630005
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	4195077888

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	265.609314	265.609314 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	196.135361	196.135361 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.71470642	5.71470642 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	38.5221024	38.5221024 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	42277	42277 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	54573	54573 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4195077888	4195077888	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4195077888	4195077888	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.5399993e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	525.752197	525.752197 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	13.4235058	13.4235058 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	88.5801086	88.5801086 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	42277	42277 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	52217	52217 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4195077888	4195077888	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4195077888	4195077888	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.5300025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	72.2188644	72.2188644 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	172.141464	172.141464 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.45036793	5.45036793 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	58.6687202	58.6687202 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	47724	47724 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	1764	1764 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4195077888	4195077888	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4195077888	4195077888	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.5399993e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.53266907e-005	6.5300025e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.304800004	0.304800004	✓
VehDyn_SLPHwPos_HwDeg_M_f32	319.630005	319.630005	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.50 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00046000001
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	21.7662468
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0350000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.063000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	664.569519
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	12.4867144
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	228.050003
k_AutoCntrHiSpdTimer1_mS_u16	8935
k_AutoCntrHiSpdTimer2_mS_u16	53328
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	49.7095528

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VehDyn_Init1

Name	Input Value
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	450.146423
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	9.50154114
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	182.573456
k_AutoCntrHiSpdTimer4_mS_u16	7812
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	61.1730156
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.063000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00779999979
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	560.017944
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	3.75256419
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	184.805145
k_AutoCntrLoSpdTimer1_mS_u16	10463
k_AutoCntrLoSpdTimer2_mS_u16	43013
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0350000001
k_SLPEnableBFCheck_Cnt_Igc	1
k_SLPHwAuthority_Uls_f32	0.311399996
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	295.596985
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	2339853824

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	450.146423	450.146423 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	182.573456	182.573456 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	9.50154114	9.50154114 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	49.7095528	49.7095528 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	8935	8935 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7812	7812 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2339853824	2339853824	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2339853824	2339853824	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.7999968e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	664.569519	664.569519 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	228.050003	228 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	12.4867144	12.4867144 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	21.7662468	21.7662468 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	8935	8935 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	53328	53328 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2339853824	2339853824	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2339853824	2339853824	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	560.017944	560.017944 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	184.805145	184.805145 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.75256419	3.75256419 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	61.1730156	61.1730156 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	10463	10463 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	43013	43013 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2339853824	2339853824	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2339853824	2339853824	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.7999968e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.51 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000479999988	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	19.5605583	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0560000017	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00200000009	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	572.561157	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	0	

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VehDyn_Init1

Name	Input Value
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	193.532913
k_AutoCntrHiSpdTimer1_mS_u16	16201
k_AutoCntrHiSpdTimer2_mS_u16	54439
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	75.1727753
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	520.135864
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	12.4131937
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	52.6185455
k_AutoCntrHiSpdTimer4_mS_u16	54779
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	27.0724258
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00200000009
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	199.42067
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	7.28609991
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	255
k_AutoCntrLoSpdTimer1_mS_u16	18002
k_AutoCntrLoSpdTimer2_mS_u16	18842
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0560000017
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.317999989
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	271.563995
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	3524313344

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	520.135864	520.135864 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	52.6185455	52.6185455 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.4131937	12.4131937 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.1727753	75.1727753 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	16201	16201 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	54779	54779 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3524313344	3524313344	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3524313344	3524313344	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	572.561157	572.561157 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	193.532913	193.532913 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	0	0 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	19.5605583	19.5605583 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16201	16201 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	54439	54439 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3524313344	3524313344	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3524313344	3524313344	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	199.42067	199.42067 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.28609991	7.28609991 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	27.0724258	27.0724258 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	18002	18002 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	18842	18842 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3524313344	3524313344	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3524313344	3524313344	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.317999989	0.317999989	✓
VehDyn_SLPHwPos_HwDeg_M_f32	271.563995	271.563995	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1		✓

Test Step 2.52 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000500000024	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	72.3069534	

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VehDyn_Init1

Name	Input Value		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0670000017		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.004999999989		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	532.443176		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	20		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	116.974548		
k_AutoCntrHiSpdTimer1_mS_u16	28925		
k_AutoCntrHiSpdTimer2_mS_u16	55550		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	67.8938828		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	498.552795		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	1.5492686		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	42.4051514		
k_AutoCntrHiSpdTimer4_mS_u16	40071		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	51.3248215		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.004999999989		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0344000012		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	32.0000687		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	0.0526188612		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	86.9903564		
k_AutoCntrLoSpdTimer1_mS_u16	4363		
k_AutoCntrLoSpdTimer2_mS_u16	58876		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0670000017		
k_SLPEnableBFCheck_Cnt_lgc	1		
k_SLPHwAuthority_Uls_f32	0.324600011		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	247.531006		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1		
tgt_GetSystemTime_mS_u32_CurrentTime	2108719104		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	498.552795	498.552795 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	42.4051514	42.4051514 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	1.5492686	1.5492686 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	67.8938828	67.8938828 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	28925	28925 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	40071	40071 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2108719104	2108719104	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2108719104	2108719104	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	532.443176	532.443176 ± 0.2	✔
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	116.974548	116.974548 ± 0.5	✔
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✔
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	72.3069534	72.3069534 ± 0.0625	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	28925	28925 ± 2	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	55550	55550 ± 2	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2108719104	2108719104	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2108719104	2108719104	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	32.0000687	32.0000687 ± 0.2	✔
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	86.9903564	86.9903564 ± 0.5	✔
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	0.0526188612	0.0526188612 ± 0.04	✔
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	51.3248215	51.3248215 ± 0.0625	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	4363	4363 ± 2	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	58876	58876 ± 2	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2108719104	2108719104	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2108719104	2108719104	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✔
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✔
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✔
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1		✓

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VehDyn_Init1

Test Step 2.53 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000520000001
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	47.1172676
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0250000004
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00520000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	330.663879
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	14.0500002
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	53.6340179
k_AutoCntrHiSpdTimer1_mS_u16	18436
k_AutoCntrHiSpdTimer2_mS_u16	56661
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	52.8357315
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	129.583893
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	2.4654448
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	169.279709
k_AutoCntrHiSpdTimer4_mS_u16	46866
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	80.1532669
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00520000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0458000004
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	207.336761
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	15.5891829
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	126.774094
k_AutoCntrLoSpdTimer1_mS_u16	29601
k_AutoCntrLoSpdTimer2_mS_u16	17463
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0250000004
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.331200004
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	223.498001
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	2894938880

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	129.583893	129.583893 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	169.279709	169.279709 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	2.4654448	2.4654448 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.8357315	52.8357315 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	18436	18436 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	46866	46866 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2894938880	2894938880	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2894938880	2894938880	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	330.663879	330.663879 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	53.6340179	53.6340179 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	14.0500002	14.0500002 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	47.1172676	47.1172676 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	18436	18436 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	56661	56661 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2894938880	2894938880	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2894938880	2894938880	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	207.336761	207.336761 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	126.774094	126.774094 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	15.5891829	15.5891829 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	80.1532669	80.1532669 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	29601	29601 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	17463	17463 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2894938880	2894938880	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2894938880	2894938880	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.331200004	0.331200004	✓
VehDyn_SLPHwPos_HwDeg_M_f32	223.498001	223.498001	✓

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VehDyn_Init1

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.54 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000539999979
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	0
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.004999999989
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0350000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	106.088676
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	17.3796749
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	82.7024841
k_AutoCntrHiSpdTimer1_mS_u16	53106
k_AutoCntrHiSpdTimer2_mS_u16	57772
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	0.382190108
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	40.3323212
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	19.9312115
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	251.952911
k_AutoCntrHiSpdTimer4_mS_u16	14715
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	86.5985413
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0320999995
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.004999999989
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	267.78949
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	17.6586285
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	105.719757
k_AutoCntrLoSpdTimer1_mS_u16	27170
k_AutoCntrLoSpdTimer2_mS_u16	21888
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.004999999989
k_SLPEnableBFCheck_Cnt_Igc	1
k_SLPHwAuthority_Uls_f32	0.337799996
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	199.464996
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFAActive_Cnt_Igc	target_VehDyn_Init1_FaultBFAActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFAActive_Cnt_Igc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	2059598336

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	40.3323212	40.3323212 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	251.952911	251.952911 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	19.9312115	19.9312115 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	0.382190108	0.382190108 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	53106	53106 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	14715	14715 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	106.088676	106.088676 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	82.7024841	82.7024841 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	17.3796749	17.3796749 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	0	0 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	53106	53106 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	57772	57772 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000439725991	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	267.78949	267.78949 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	105.719757	105.719757 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	17.6586285	17.6586285 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	86.5985413	86.5985413 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	27170	27170 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	21888	21888 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.55 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000560000015
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	100
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.008999999961
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0560000017
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	246.491226
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	15.1210756
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	14.3564606
k_AutoCntrHiSpdTimer1_mS_u16	40735
k_AutoCntrHiSpdTimer2_mS_u16	58883
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	65.5642929
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	172.499313
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	5.32853031
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	198.042679
k_AutoCntrHiSpdTimer4_mS_u16	37715
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	9.40841103
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0850000009
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.008999999961
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	210.980316
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	5.85037804
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	177.992142
k_AutoCntrLoSpdTimer1_mS_u16	35868
k_AutoCntrLoSpdTimer2_mS_u16	19303
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.008999999961
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.344399989
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	175.432007
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	800969984

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	172.499313	172.499313 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	198.042679	198.042679 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	5.32853031	5.32853031 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	65.5642929	65.5642929 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	40735	40735 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	37715	37715 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	246.491226	246.491226 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	14.3564606	14.3564606 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	15.1210756	15.1210756 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	40735	40735 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	58883	58883 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	210.980316	210.980316 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	177.992142	177.992142 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	5.85037804	5.85037804 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	9.40841103	9.40841103 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	35868	35868 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	19303	19303 ± 2	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.344399989	0.344399989	✓
VehDyn_SLPHwPos_HwDeg_M_f32	175.432007	175.432007	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.56 (Repeat Count = 1) ✓

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000579999993
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	2.04999995
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0250000004
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0670000017
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	680.440247
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.89876556
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	18.8164063
k_AutoCntrHiSpdTimer1_mS_u16	39187
k_AutoCntrHiSpdTimer2_mS_u16	59994
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	89.7410736
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	138.948975
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	18.4402218
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	145.445251
k_AutoCntrHiSpdTimer4_mS_u16	35319
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	54.7292175
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0250000004
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	664.948303
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	14.762373
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	45.8468628
k_AutoCntrLoSpdTimer1_mS_u16	1815
k_AutoCntrLoSpdTimer2_mS_u16	21239
k_AutoCntrPinTrqLPCoeffKn_Hz_f32	0.0250000004
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.351000011
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	151.399002
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	569984000

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	138.948975	138.948975 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	145.445251	145.445251 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.4402218	18.4402218 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	89.7410736	89.7410736 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	39187	39187 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	35319	35319 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	680.440247	680.440247 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	18.8164063	18.8164063 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.89876556	8.89876556 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	2.04999995	2 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	39187	39187 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	59994	59994 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	664.948303	664.948303 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	45.8468628	45.8468628 ± 0.5	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.762373	14.762373 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	54.7292175	54.7292175 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	1815	1815 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	21239	21239 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.57 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000600000028
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	37.5070457
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00620000018
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	449.560669
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	7.49751949
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	15.1709442
k_AutoCntrHiSpdTimer1_mS_u16	51065
k_AutoCntrHiSpdTimer2_mS_u16	0
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	33.4789696
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	684.185608
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	12.1316996
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	98.2219086
k_AutoCntrHiSpdTimer4_mS_u16	3948
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	41.9530144
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00499999989
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0350000001
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	686.860413
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	8.50215721
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	108.267075
k_AutoCntrLoSpdTimer1_mS_u16	19095
k_AutoCntrLoSpdTimer2_mS_u16	14137
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.357600003
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	127.365997
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	3351443200

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	684.185608	684.185608 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	98.2219086	98.2219086 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	12.1316996	12.1316996 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	33.4789696	33.4789696 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	51065	51065 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3948	3948 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3351443200	3351443200	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3351443200	3351443200	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	449.560669	449.560669 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	15.1709442	15.1709442 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	7.49751949	7.49751949 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	37.5070457	37.5070457 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	51065	51065 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	0	0 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3351443200	3351443200	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3351443200	3351443200	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	7.79032707e-005	7.78999965e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	686.860413	686.860413 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	108.267075	108.267075 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.50215721	8.50215721 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.9530144	41.9530144 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	19095	19095 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14137	14137 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3351443200	3351443200	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3351443200	3351443200	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.357600003	0.357600003	✓
VehDyn_SLPHwPos_HwDeg_M_f32	127.365997	127.365997	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.58 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000620000006
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	49.7710762
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.008999999961
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.006500000013
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	338.984467
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	18.0932884
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	236.904205
k_AutoCntrHiSpdTimer1_mS_u16	19981
k_AutoCntrHiSpdTimer2_mS_u16	60000
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	46.1480331
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	124.406281
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	4.16511393
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	70.9388123
k_AutoCntrHiSpdTimer4_mS_u16	29986
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	7.41047621
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.008999999961
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.05600000017
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	281.363403
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	17.0429993
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	139.053314
k_AutoCntrLoSpdTimer1_mS_u16	8138
k_AutoCntrLoSpdTimer2_mS_u16	35571
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.008999999961
k_SLPEnableBFCheck_Cnt_Igc	1
k_SLPHwAuthority_Uls_f32	0.364199996
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	103.333
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFAActive_Cnt_Igc	target_VehDyn_Init1_FaultBFAActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFAActive_Cnt_Igc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	1358028288

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	124.406281	124.406281 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	70.9388123	70.9388123 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.16511393	4.16511393 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	46.1480331	46.1480331 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	19981	19981 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	29986	29986 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1358028288	1358028288	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1358028288	1358028288	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	338.984467	338.984467 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	236.904205	236.904205 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	18.0932884	18.0932884 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	49.7710762	49.7710762 ± 0.0625	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	19981	19981 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1358028288	1358028288	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1358028288	1358028288	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	8.16583633e-005	8.16999964e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	281.363403	281.363403 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	139.053314	139.053314 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	17.0429993	17.0429993 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	7.41047621	7.41047621 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	8138	8138 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	35571	35571 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1358028288	1358028288	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1358028288	1358028288	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.59 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000639999984
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	58.6891289
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0250000004
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0250000004
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	57.2952843
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	2.56739569
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	11.313797
k_AutoCntrHiSpdTimer1_mS_u16	20825
k_AutoCntrHiSpdTimer2_mS_u16	12456
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	91.4300919
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	459.889984
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	18.1788235
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	195.647476
k_AutoCntrHiSpdTimer4_mS_u16	47347
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	45.5890503
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0250000004
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0670000017
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	195.074249
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	15.5773945
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	208.55397
k_AutoCntrLoSpdTimer1_mS_u16	19617
k_AutoCntrLoSpdTimer2_mS_u16	42138
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0250000004
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.370799989
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	79.3000031
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	1975593216

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	459.889984	459.889984 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	195.647476	195.647476 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.1788235	18.1788235 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	91.4300919	91.4300919 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20825	20825 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	47347	47347 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1975593216	1975593216	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1975593216	1975593216	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	57.2952843	57.2952843 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	11.313797	11.313797 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.56739569	2.56739569 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	58.6891289	58.6891289 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20825	20825 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	12456	12456 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1975593216	1975593216	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1975593216	1975593216	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	195.074249	195.074249 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	208.55397	208.55397 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	15.5773945	15.5773945 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	45.5890503	45.5890503 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	19617	19617 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	42138	42138 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1975593216	1975593216	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1975593216	1975593216	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.370799989	0.370799989	✓
VehDyn_SLPHwPos_HwDeg_M_f32	79.3000031	79.3000031	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.60 (Repeat Count = 1)

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00066000002		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	39.9920425		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.000199999995		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.03500000001		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	595.803711		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	20		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	249.256897		
k_AutoCntrHiSpdTimer1_mS_u16	51762		
k_AutoCntrHiSpdTimer2_mS_u16	1234		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	52.9036674		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	637.189331		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	4.48333788		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	60.9433594		
k_AutoCntrHiSpdTimer4_mS_u16	35091		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	70.5879364		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0630000001		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.006000000005		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	112.469505		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	9.19094181		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	138.473877		
k_AutoCntrLoSpdTimer1_mS_u16	45601		
k_AutoCntrLoSpdTimer2_mS_u16	16090		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0250000004		
k_SLPEnableBFCheck_Cnt_Igc	1		
k_SLPHwAuthority_Uls_f32	0.377400011		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	55.2669983		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	1		
tgt_GetSystemTime_mS_u32_CurrentTime	910116864		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	637.189331	637.189331 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	60.9433594	60.9433594 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.48333788	4.48333788 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.9036674	52.9036674 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	51762	51762 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	35091	35091 ± 2	✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	910116864	910116864	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	910116864	910116864	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	595.803711	595.803711 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	249.256897	249.256897 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	39.9920425	39.9920425 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	51762	51762 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	1234	1234 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	910116864	910116864	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	910116864	910116864	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	112.469505	112.469505 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	138.473877	138.473877 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	9.19094181	9.19094181 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	70.5879364	70.5879364 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	45601	45601 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	16090	16090 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	910116864	910116864	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	910116864	910116864	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.61 (Repeat Count = 1)

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000679999997		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	40.3496017		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.100000001		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0560000017		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	31.3933392		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	16.8332462		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	3.91197205		
k_AutoCntrHiSpdTimer1_mS_u16	49799		
k_AutoCntrHiSpdTimer2_mS_u16	1568		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	46.9611549		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	190.477554		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	6.47036648		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	178.790085		
k_AutoCntrHiSpdTimer4_mS_u16	53632		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	50.4249611		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.061999999		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00779999979		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	114.137932		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	1.6375922		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	109.448532		
k_AutoCntrLoSpdTimer1_mS_u16	37638		
k_AutoCntrLoSpdTimer2_mS_u16	34521		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989		
k_SLPEnableBFCheck_Cnt_lgc	0		
k_SLPHwAuthority_Uls_f32	0.384000003		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	31.2339993		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	402713344		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	190.477554	190.477554 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	178.790085	178.790085 ± 0.5	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.47036648	6.47036648 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	46.9611549	46.9611549 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	49799	49799 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	53632	53632 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	402713344	402713344	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	402713344	402713344	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000778794289	0.000778811984 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	31.3933392	31.3933392 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	3.91197205	3.91197205 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.8332462	16.8332462 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	40.3496017	40.3496017 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	49799	49799 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	1568	1568 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	402713344	402713344	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	402713344	402713344	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	114.137932	114.137932 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	109.448532	109.448532 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.6375922	1.6375922 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	50.4249611	50.4249611 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	37638	37638 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34521	34521 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	402713344	402713344	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	402713344	402713344	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000778794289	0.000778811984 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.384000003	0.384000003	✓
VehDyn_SLPHwPos_HwDeg_M_f32	31.2339993	31.2339993	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.62 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.0006999999975
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	99.1655273
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.000199999995
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0350000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	279.967194
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	13.9828386
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	86.4936218
k_AutoCntrHiSpdTimer1_mS_u16	49400
k_AutoCntrHiSpdTimer2_mS_u16	1902
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	19.041563
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	179.741653
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	0.99505949
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	156.046783
k_AutoCntrHiSpdTimer4_mS_u16	48941
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	41.1003494
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00499999989
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	453.257568
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	8.62326527
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	130.321442
k_AutoCntrLoSpdTimer1_mS_u16	57817
k_AutoCntrLoSpdTimer2_mS_u16	34611
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00899999961
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.390599996
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	7.20100021
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1

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VehDyn_Init1

Name	Input Value		
tgt_GetSystemTime_mS_u32_CurrentTime	4178051584		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	179.741653	179.741653 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.046783	156.046783 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	0.99505949	0.99505949 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	19.041563	19.041563 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	49400	49400 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	48941	48941 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4178051584	4178051584	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4178051584	4178051584	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	279.967194	279.967194 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	86.4936218	86.4936218 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	13.9828386	13.9828386 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	99.1655273	99.1655273 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	49400	49400 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	1902	1902 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4178051584	4178051584	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4178051584	4178051584	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	453.257568	453.257568 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	130.321442	130.321442 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.62326527	8.62326527 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.1003494	41.1003494 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	57817	57817 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34611	34611 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4178051584	4178051584	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4178051584	4178051584	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.63 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000720000011
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	64.989418
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.004999999989
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.000199999995
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	144.154984
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	11.458559
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	55.1080475
k_AutoCntrHiSpdTimer1_mS_u16	50710
k_AutoCntrHiSpdTimer2_mS_u16	2236
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	56.9792366
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	540.500305
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	9.40114307
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	47.8860626
k_AutoCntrHiSpdTimer4_mS_u16	41475
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	95.4522934
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.008999999961
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0344000012
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	287.461334
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	7.12687922
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	58.312088
k_AutoCntrLoSpdTimer1_mS_u16	49661
k_AutoCntrLoSpdTimer2_mS_u16	59445
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.004999999989
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.397199988
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1

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VehDyn_Init1

Name	Input Value		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-16.8320007		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFAActive_Cnt_lgc	target_VehDyn_Init1_FaultBFAActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFAActive_Cnt_lgc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	4077829376		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	540.500305	540.500305 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	47.8860626	47.8860626 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	9.40114307	9.40114307 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	56.9792366	56.9792366 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	50710	50710 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	41475	41475 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4077829376	4077829376	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4077829376	4077829376	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	144.154984	144.154984 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	55.1080475	55.1080475 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	11.458559	11.458559 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	64.989418	64.989418 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	50710	50710 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	2236	2236 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4077829376	4077829376	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4077829376	4077829376	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	287.461334	287.461334 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	58.312088	58.312088 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.12687922	7.12687922 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	95.4522934	95.4522934 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	49661	49661 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	59445	59445 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4077829376	4077829376	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4077829376	4077829376	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.397199988	0.397199988	✓
VehDyn_SLPHwPos_HwDeg_M_f32	-16.8320007	-16.8320007	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.64 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000739999989	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	87.8902435	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.008999999961	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.100000001	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	80.0510254	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.94539928	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	124.186646	
k_AutoCntrHiSpdTimer1_mS_u16	42690	
k_AutoCntrHiSpdTimer2_mS_u16	2570	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	23.8170319	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	531.758972	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	6.92990065	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	245.5401	
k_AutoCntrHiSpdTimer4_mS_u16	34733	
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	99.4496155	
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0250000004	
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0458000004	
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	289.349548	
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	14.9216394	
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	158.512024	
k_AutoCntrLoSpdTimer1_mS_u16	33241	
k_AutoCntrLoSpdTimer2_mS_u16	55884	

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VehDyn_Init1

Name	Input Value
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00899999961
k_SLPEnableBFCheck_Cnt_Igc	1
k_SLPHwAuthority_Uls_f32	0.403800011
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-40.8650017
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	2644937728

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	531.758972	531.758972 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	245.5401	245.5401 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.92990065	6.92990065 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	23.8170319	23.8170319 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	42690	42690 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	34733	34733 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2644937728	2644937728	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2644937728	2644937728	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	80.0510254	80.0510254 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	124.186646	124.186646 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.94539928	8.94539928 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	87.8902435	87.8902435 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	42690	42690 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	2570	2570 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2644937728	2644937728	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2644937728	2644937728	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	289.349548	289.349548 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	158.512024	158.512024 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.9216394	14.9216394 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	99.4496155	99.4496155 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	33241	33241 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	55884	55884 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2644937728	2644937728	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2644937728	2644937728	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.65 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000760000024	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	24.5077915	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.000199999995	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	416.42218	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.68037319	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	168.185226	
k_AutoCntrHiSpdTimer1_mS_u16	30272	
k_AutoCntrHiSpdTimer2_mS_u16	2904	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	51.7886963	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	272.816681	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	13.0401011	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	209.062363	
k_AutoCntrHiSpdTimer4_mS_u16	3628	
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	59.735672	
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.063000001	
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00499999989	
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	499.624054	

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VehDyn_Init1

Name	Input Value
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	6.55805016
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	125.396591
k_AutoCntrLoSpdTimer1_mS_u16	36412
k_AutoCntrLoSpdTimer2_mS_u16	14998
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.410400003
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-64.8980026
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	2212175616

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	272.816681	272.816681 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	209.062363	209.062363 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	13.0401011	13.0401011 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	51.7886963	51.7886963 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	30272	30272 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3628	3628 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2212175616	2212175616	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2212175616	2212175616	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	416.42218	416.42218 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	168.185226	168.185226 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.68037319	8.68037319 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	24.5077915	24.5077915 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	30272	30272 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	2904	2904 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2212175616	2212175616	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2212175616	2212175616	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	499.624054	499.624054 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	125.396591	125.396591 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.55805016	6.55805016 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	59.735672	59.735672 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	36412	36412 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14998	14998 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2212175616	2212175616	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2212175616	2212175616	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.410400003	0.410400003	✓
VehDyn_SLPHwPos_HwDeg_M_f32	-64.8980026	-64.8980026	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.66 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000780000002
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	91.3826141
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00520000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00499999989
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	683.818359
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	0.0764636993
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	34.4863586
k_AutoCntrHiSpdTimer1_mS_u16	23210
k_AutoCntrHiSpdTimer2_mS_u16	3238
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	75.1060562
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	108.829964
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	7.80758333
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	169.04245
k_AutoCntrHiSpdTimer4_mS_u16	7187

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VehDyn_Init1

Name	Input Value
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	53.7309608
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0320999995
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	228.670547
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	16.7742443
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	174.289764
k_AutoCntrLoSpdTimer1_mS_u16	11413
k_AutoCntrLoSpdTimer2_mS_u16	48604
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.000199999995
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.416999996
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-88.9309998
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	2059598336

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	108.829964	108.829964 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	169.04245	169.04245 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	7.80758333	7.80758333 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.1060562	75.1060562 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	23210	23210 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7187	7187 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	683.818359	683.818359 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	34.4863586	34.4863586 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	0.0764636993	0.0764636993 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	91.3826141	91.3826141 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	23210	23210 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3238	3238 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	228.670547	228.670547 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	174.289764	174.289764 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.7742443	16.7742443 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.7309608	53.7309608 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	11413	11413 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	48604	48604 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2059598336	2059598336	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.67 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00079999998
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	77.5132141
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0350000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00899999961
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	39.0381813
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	5.52265358
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	232.692337
k_AutoCntrHiSpdTimer1_mS_u16	38590
k_AutoCntrHiSpdTimer2_mS_u16	3572
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	5.39439726

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VehDyn_Init1

Name	Input Value
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	400.168243
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	19.648386
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	17.4615631
k_AutoCntrHiSpdTimer4_mS_u16	37023
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	62.1222305
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0850000009
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0250000004
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	443.858398
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	3.18688083
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	226.96962
k_AutoCntrLoSpdTimer1_mS_u16	54120
k_AutoCntrLoSpdTimer2_mS_u16	46193
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.100000001
k_SLPEnableBFCheck_Cnt_Igc	0
k_SLPHwAuthority_Uls_f32	0.423599988
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-112.963997
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	800969984

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	400.168243	400.168243 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	17.4615631	17.4615631 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	19.648386	19.648386 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	5.39439726	5.39439726 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	38590	38590 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	37023	37023 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	39.0381813	39.0381813 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	232.692337	232.692337 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.52265358	5.52265358 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	77.5132141	77.5132141 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38590	38590 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3572	3572 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	443.858398	443.858398 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	226.96962	226.96962 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.18688083	3.18688083 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	62.1222305	62.1222305 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	54120	54120 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	46193	46193 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	800969984	800969984	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.423599988	0.423599988	✓
VehDyn_SLPHwPos_HwDeg_M_f32	-112.963997	-112.963997	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.68 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000820000016	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	7.04372168	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.006000000005	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0250000004	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	55.3411407	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	6.96820259	

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VehDyn_Init1

Name	Input Value
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	102.746277
k_AutoCntrHiSpdTimer1_mS_u16	6114
k_AutoCntrHiSpdTimer2_mS_u16	3906
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	55.9956245
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	84.2065811
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	15.3837309
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	119.126099
k_AutoCntrHiSpdTimer4_mS_u16	32226
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	9.00450611
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00300000003
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00700000022
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	145.500351
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	12.452816
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	94.8519287
k_AutoCntrLoSpdTimer1_mS_u16	19115
k_AutoCntrLoSpdTimer2_mS_u16	24462
k_AutoCntrPinTrqLPCoeffKn_Hz_f32	0.000199999995
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.430200011
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-136.996994
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	569984000

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	84.2065811	84.2065811 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	119.126099	119.126099 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	15.3837309	15.3837309 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	55.9956245	55.9956245 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	6114	6114 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	32226	32226 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.76701355e-005	3.76999997e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	8.79764557e-005	8.80000007e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	55.3411407	55.3411407 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	102.746277	102.746277 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.96820259	6.96820259 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	7.04372168	7.04372168 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	6114	6114 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3906	3906 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	145.500351	145.500351 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	94.8519287	94.8519287 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.452816	12.452816 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	9.00450611	9.00450611 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	19115	19115 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	24462	24462 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	569984000	569984000	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.76701355e-005	3.76999997e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	8.79764557e-005	8.80000007e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T	Count	Expected Function	Count	Result
Actual Function				
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.69 (Repeat Count = 1)	Count	Expected Function	Count	Result
Name				
GetSystemTime_mS_u32(CurrentTime)		tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn		target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32		2.51000006e-006		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32		32.0222664		

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VehDyn_Init1

Name	Input Value		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.063000001		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	575.91394		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.9376688		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	204.072876		
k_AutoCntrHiSpdTimer1_mS_u16	5222		
k_AutoCntrHiSpdTimer2_mS_u16	4240		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	93.8445969		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	312.352844		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	8.16609764		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	68		
k_AutoCntrHiSpdTimer4_mS_u16	31042		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	95.9834061		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00499999989		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00499999989		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	195.818787		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	7.82910013		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	29.3435669		
k_AutoCntrLoSpdTimer1_mS_u16	25532		
k_AutoCntrLoSpdTimer2_mS_u16	27401		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989		
k_SLPEnableBFCheck_Cnt_lgc	0		
k_SLPHwAuthority_Uls_f32	0.436800003		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-161.029999		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	2242866176		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	312.352844	312.352844 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	68	68 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	8.16609764	8.16609764 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	93.8445969	93.8445969 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	5222	5222 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	31042	31042 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	575.91394	575.91394 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	204.072876	204.072876 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.9376688	8.9376688 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	32.0222664	32.0222664 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	5222	5222 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	4240	4240 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	195.818787	195.818787 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	29.3435669	29.3435669 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.82910013	7.82910013 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	95.9834061	95.9834061 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	25532	25532 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	27401	27401 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2242866176	2242866176	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.436800003	0.436800003	✓
VehDvn_SLPHwPos_HwDeg_M_f32	-161.029999	-161.029999	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1		✓

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VehDyn_Init1

Test Step 2.70 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00125584798
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	7.2738266
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00899999961
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00200000009
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	460.901886
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.00629902
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	92.026535
k_AutoCntrHiSpdTimer1_mS_u16	16931
k_AutoCntrHiSpdTimer2_mS_u16	4574
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	51.3993683
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	119.134666
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	0
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	103.723984
k_AutoCntrHiSpdTimer4_mS_u16	51145
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	65.2026672
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0250000004
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	581.690918
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	6.79465103
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	236.401962
k_AutoCntrLoSpdTimer1_mS_u16	46296
k_AutoCntrLoSpdTimer2_mS_u16	9393
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00899999961
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.443399996
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-185.063004
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	2269150976

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	119.134666	119.134666 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	103.723984	103.723984 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	0	0 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	51.3993683	51.3993683 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	16931	16931 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	51145	51145 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	460.901886	460.901886 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	92.026535	92.026535 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.00629902	8.00629902 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	7.2738266	7.2738266 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16931	16931 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	4574	4574 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	581.690918	581.690918 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	236.401962	236.401962 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.79465103	6.79465103 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	65.2026672	65.2026672 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	46296	46296 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	9393	9393 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2269150976	2269150976	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

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VehDyn_Init1

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.71 (Repeat Count = 1)

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	9.99999975e-006		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	91.5981827		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0250000004		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00499999989		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	160.17424		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	4.19048309		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	28.4624329		
k_AutoCntrHiSpdTimer1_mS_u16	20459		
k_AutoCntrHiSpdTimer2_mS_u16	4908		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	53.1939697		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	201.577209		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	20		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	194.557587		
k_AutoCntrHiSpdTimer4_mS_u16	55301		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	52.1249008		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0250000004		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.063000001		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	578.046082		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	16.1874886		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	158.773651		
k_AutoCntrLoSpdTimer1_mS_u16	21486		
k_AutoCntrLoSpdTimer2_mS_u16	38584		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0250000004		
k_SLPEnableBFCheck_Cnt_Igc	0		
k_SLPHwAuthority_Uls_f32	0.449999988		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-209.095993		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	3533260288		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	201.577209	201.577209 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	194.557587	194.557587 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	53.1939697	53.1939697 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20459	20459 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	55301	55301 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3533260288	3533260288	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3533260288	3533260288	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	160.17424	160.17424 ± 0.2	✔
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	28.4624329	28.4624329 ± 0.5	✔
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	4.19048309	4.19048309 ± 0.04	✔
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	91.5981827	91.5981827 ± 0.0625	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20459	20459 ± 2	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	4908	4908 ± 2	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3533260288	3533260288	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3533260288	3533260288	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	578.046082	578.046082 ± 0.2	✔
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	158.773651	158.773651 ± 0.5	✔
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.1874886	16.1874886 ± 0.04	✔
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	52.1249008	52.1249008 ± 0.0625	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	21486	21486 ± 2	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	38584	38584 ± 2	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3533260288	3533260288	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3533260288	3533260288	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.449999988	0.449999988	✓
VehDyn_SLPHwPos_HwDeg_M_f32	-209.095993	-209.095993	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.72 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00063999984
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	58.6891289
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0250000004
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0250000004
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	57.2952843
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	2.56739569
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	11.313797
k_AutoCntrHiSpdTimer1_mS_u16	20825
k_AutoCntrHiSpdTimer2_mS_u16	12456
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	91.4300919
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	459.889984
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	18.1788235
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	195.647476
k_AutoCntrHiSpdTimer4_mS_u16	47347
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	45.5890503
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0250000004
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0670000017
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	195.074249
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	15.5773945
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	208.55397
k_AutoCntrLoSpdTimer1_mS_u16	19617
k_AutoCntrLoSpdTimer2_mS_u16	42138
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0250000004
k_SLPEnableBFCheck_Cnt_Igc	1
k_SLPHwAuthority_Uls_f32	0.45660001
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-233.128998
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	0

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	459.889984	459.889984 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	195.647476	195.647476 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.1788235	18.1788235 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	91.4300919	91.4300919 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	20825	20825 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	47347	47347 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	57.2952843	57.2952843 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	11.313797	11.313797 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.56739569	2.56739569 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	58.6891289	58.6891289 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	20825	20825 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	12456	12456 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	195.074249	195.074249 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	208.55397	208.55397 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	15.5773945	15.5773945 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	45.5890503	45.5890503 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	19617	19617 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	42138	42138 ± 2	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	0	0	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000841617584	0.000841591973 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.73 (Repeat Count = 1) ✓

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00066000002
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	39.9920425
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.000199999995
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0350000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	595.803711
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	249.256897
k_AutoCntrHiSpdTimer1_mS_u16	51762
k_AutoCntrHiSpdTimer2_mS_u16	1234
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	52.9036674
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	637.189331
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	4.48333788
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	60.9433594
k_AutoCntrHiSpdTimer4_mS_u16	35091
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	70.5879364
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.063000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00600000005
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	112.469505
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	9.19094181
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	138.473877
k_AutoCntrLoSpdTimer1_mS_u16	45601
k_AutoCntrLoSpdTimer2_mS_u16	16090
k_AutoCntrPinTrqLPCoeffKn_Hz_f32	0.0250000004
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.463200003
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-257.161987
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	4294967295

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	637.189331	637.189331 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	60.9433594	60.9433594 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	4.48333788	4.48333788 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	52.9036674	52.9036674 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	51762	51762 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	35091	35091 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	595.803711	595.803711 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	249.256897	249.256897 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	39.9920425	39.9920425 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	51762	51762 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	1234	1234 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.50339508e-006	2.51000006e-006 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	112.469505	112.469505 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	138.473877	138.473877 ± 0.5	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	9.19094181	9.19094181 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	70.5879364	70.5879364 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	45601	45601 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	16090	16090 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	7.53998756e-005	7.53999993e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.463200003	0.463200003	✓
VehDyn_SLPHwPos_HwDeg_M_f32	-257.161987	-257.161987	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.74 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000679999997
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	40.3496017
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.100000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0560000017
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	31.3933392
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	16.8332462
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	3.91197205
k_AutoCntrHiSpdTimer1_mS_u16	49799
k_AutoCntrHiSpdTimer2_mS_u16	1568
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	46.9611549
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	190.477554
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	6.47036648
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	178.790085
k_AutoCntrHiSpdTimer4_mS_u16	53632
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	50.4249611
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.061999999
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00779999979
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	114.137932
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	1.6375922
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	109.448532
k_AutoCntrLoSpdTimer1_mS_u16	37638
k_AutoCntrLoSpdTimer2_mS_u16	34521
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.469799995
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-281.195007
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	1720406272

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	190.477554	190.477554 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	178.790085	178.790085 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.47036648	6.47036648 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	46.9611549	46.9611549 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	49799	49799 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	53632	53632 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000778794289	0.000778811984 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	31.3933392	31.3933392 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	3.91197205	3.91197205 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	16.8332462	16.8332462 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	40.3496017	40.3496017 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	49799	49799 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	1568	1568 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000703454018	0.000703468977 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	114.137932	114.137932 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	109.448532	109.448532 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	1.6375922	1.6375922 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	50.4249611	50.4249611 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	37638	37638 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34521	34521 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000778794289	0.000778811984 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.75 (Repeat Count = 1) ✓

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000730000029		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	99.1655273		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.004999999989		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0250000004		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	279.967194		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	13.9828386		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	86.4936218		
k_AutoCntrHiSpdTimer1_mS_u16	49400		
k_AutoCntrHiSpdTimer2_mS_u16	1902		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	19.041563		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	179.741653		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	0.99505949		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	156.046783		
k_AutoCntrHiSpdTimer4_mS_u16	48941		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	41.1003494		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.004999999989		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.008999999961		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	453.257568		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	8.62326527		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	130.321442		
k_AutoCntrLoSpdTimer1_mS_u16	57817		
k_AutoCntrLoSpdTimer2_mS_u16	34611		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.004999999989		
k_SLPEnableBFCheck_Cnt_Igc	0		
k_SLPHwAuthority_Uls_f32	0.476399988		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-305.227997		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	3494315776		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	179.741653	179.741653 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	156.046783	156.046783 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	0.99505949	0.99505949 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	19.041563	19.041563 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	49400	49400 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	48941	48941 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3494315776	3494315776	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	279.967194	279.967194 ± 0.2	✔
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	86.4936218	86.4936218 ± 0.5	✔
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	13.9828386	13.9828386 ± 0.04	✔
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	99.1655273	99.1655273 ± 0.0625	✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	49400	49400 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	1902	1902 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	453.257568	453.257568 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	130.321442	130.321442 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	8.62326527	8.62326527 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	41.1003494	41.1003494 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	57817	57817 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	34611	34611 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3494315776	3494315776	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.476399988	0.476399988	✓
VehDyn_SLPHwPos_HwDeg_M_f32	-305.227997	-305.227997	✓

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Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.76 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000769999984
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	64.989418
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00520000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.063000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	144.154984
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	11.458559
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	55.1080475
k_AutoCntrHiSpdTimer1_mS_u16	50710
k_AutoCntrHiSpdTimer2_mS_u16	2236
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	56.9792366
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	540.500305
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	9.40114307
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	47.8860626
k_AutoCntrHiSpdTimer4_mS_u16	41475
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	95.4522934
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0344000012
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	287.461334
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	7.12687922
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	58.312088
k_AutoCntrLoSpdTimer1_mS_u16	49661
k_AutoCntrLoSpdTimer2_mS_u16	59445
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00520000001
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.48300001
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-329.260986
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	463842816

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	540.500305	540.500305 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	47.8860626	47.8860626 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	9.40114307	9.40114307 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	56.9792366	56.9792366 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	50710	50710 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	41475	41475 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	144.154984	144.154984 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	55.1080475	55.1080475 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	11.458559	11.458559 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	64.989418	64.989418 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	50710	50710 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	2236	2236 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	287.461334	287.461334 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	58.312088	58.312088 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.12687922	7.12687922 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	95.4522934	95.4522934 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	49661	49661 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	59445	59445 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	463842816	463842816	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.77 (Repeat Count = 1)

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000809999998		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	87.8902435		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0759999976		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00200000009		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	80.0510254		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.94539928		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	124.186646		
k_AutoCntrHiSpdTimer1_mS_u16	42690		
k_AutoCntrHiSpdTimer2_mS_u16	2570		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	23.8170319		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	531.758972		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	6.92990065		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	245.5401		
k_AutoCntrHiSpdTimer4_mS_u16	34733		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	99.4496155		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0250000004		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0458000004		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	289.349548		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	14.9216394		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	158.512024		
k_AutoCntrLoSpdTimer1_mS_u16	33241		
k_AutoCntrLoSpdTimer2_mS_u16	55884		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0759999976		
k_SLPEnableBFCheck_Cnt_Igc	0		
k_SLPHwAuthority_Uls_f32	0.489600003		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-353.294006		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	1759885568		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	531.758972	531.758972 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	245.5401	245.5401 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.92990065	6.92990065 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	23.8170319	23.8170319 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	42690	42690 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	34733	34733 ± 2	✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	80.0510254	80.0510254 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	124.186646	124.186646 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.94539928	8.94539928 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	87.8902435	87.8902435 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	42690	42690 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	2570	2570 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000954568386	0.000954588002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	289.349548	289.349548 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	158.512024	158.512024 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.9216394	14.9216394 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	99.4496155	99.4496155 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	33241	33241 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	55884	55884 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1759885568	1759885568	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000954568386	0.000954588002 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	13.0401011	13.0401011 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	51.7886963	51.7886963 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	30272	30272 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3628	3628 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	416.42218	416.42218 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	168.185226	168.185226 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.68037319	8.68037319 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	24.5077915	24.5077915 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	30272	30272 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	2904	2904 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00028270483	0.000282702997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	499.624054	499.624054 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	125.396591	125.396591 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.55805016	6.55805016 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	59.735672	59.735672 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	36412	36412 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14998	14998 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1662097408	1662097408	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00028270483	0.000282702997 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.79 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000890000025
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	91.3826141
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.063000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.0491000004
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	683.818359
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	0.0764636993
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	34.4863586
k_AutoCntrHiSpdTimer1_mS_u16	23210
k_AutoCntrHiSpdTimer2_mS_u16	3238
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	75.1060562
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	108.829964
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	7.80758333
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	169.04245
k_AutoCntrHiSpdTimer4_mS_u16	7187
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	53.7309608
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0320999995
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00899999961
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	228.670547
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	16.7742443
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	174.289764
k_AutoCntrLoSpdTimer1_mS_u16	11413
k_AutoCntrLoSpdTimer2_mS_u16	48604
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.063000001
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.502799988
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-401.359985
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1

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VehDyn_Init1

Name	Input Value		
tgt_GetSystemTime_mS_u32_CurrentTime	2127166208		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	108.829964	108.829964 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	169.04245	169.04245 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	7.80758333	7.80758333 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.1060562	75.1060562 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	23210	23210 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7187	7187 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	683.818359	683.818359 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	34.4863586	34.4863586 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	0.0764636993	0.0764636993 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	91.3826141	91.3826141 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	23210	23210 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3238	3238 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000616788864	0.000616818026 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	228.670547	228.670547 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	174.289764	174.289764 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.7742443	16.7742443 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.7309608	53.7309608 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	11413	11413 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	48604	48604 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2127166208	2127166208	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.502799988	0.502799988	✓
VehDyn_SLPHwPos_HwDeg_M_f32	-401.359985	-401.359985	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.80 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00092999998
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	77.5132141
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00200000009
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00899999961
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	39.0381813
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	5.52265358
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	232.692337
k_AutoCntrHiSpdTimer1_mS_u16	38590
k_AutoCntrHiSpdTimer2_mS_u16	3572
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	5.39439726
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	400.168243
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	19.648386
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	17.4615631
k_AutoCntrHiSpdTimer4_mS_u16	37023
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	62.1222305
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0850000009
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0250000004
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	443.858398
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	3.18688083
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	226.96962
k_AutoCntrLoSpdTimer1_mS_u16	54120
k_AutoCntrLoSpdTimer2_mS_u16	46193
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00200000009
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.50940001
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1

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VehDyn_Init1

Name	Input Value
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-425.393005
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFAActive_Cnt_lgc	target_VehDyn_Init1_FaultBFAActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFAActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	4243378688

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	400.168243	400.168243 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	17.4615631	17.4615631 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	19.648386	19.648386 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	5.39439726	5.39439726 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	38590	38590 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	37023	37023 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	39.0381813	39.0381813 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	232.692337	232.692337 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.52265358	5.52265358 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	77.5132141	77.5132141 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38590	38590 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3572	3572 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	443.858398	443.858398 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	226.96962	226.96962 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.18688083	3.18688083 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	62.1222305	62.1222305 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	54120	54120 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	46193	46193 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4243378688	4243378688	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.81 (Repeat Count = 1)		
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000159999996	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	64.989418	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.063000001	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00520000001	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	144.154984	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	11.458559	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	55.1080475	
k_AutoCntrHiSpdTimer1_mS_u16	50710	
k_AutoCntrHiSpdTimer2_mS_u16	2236	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	56.9792366	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	540.500305	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	9.40114307	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	47.8860626	
k_AutoCntrHiSpdTimer4_mS_u16	41475	
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	95.4522934	
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.008999999961	
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0344000012	
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	287.461334	
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	7.12687922	
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	58.312088	
k_AutoCntrLoSpdTimer1_mS_u16	49661	
k_AutoCntrLoSpdTimer2_mS_u16	59445	

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VehDyn_Init1

Name	Input Value
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.063000001
k_SLPEnableBFCheck_Cnt_Igc	0
k_SLPHwAuthority_Uls_f32	0
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-641.690002
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	4164171008

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	540.500305	540.500305 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	47.8860626	47.8860626 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	9.40114307	9.40114307 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	56.9792366	56.9792366 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	50710	50710 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	41475	41475 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	144.154984	144.154984 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	55.1080475	55.1080475 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	11.458559	11.458559 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	64.989418	64.989418 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	50710	50710 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	2236	2236 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.53266907e-005	6.53000025e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	287.461334	287.461334 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	58.312088	58.312088 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	7.12687922	7.12687922 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	95.4522934	95.4522934 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	49661	49661 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	59445	59445 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4164171008	4164171008	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000432193279	0.000432189991 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	-641.690002	-641.690002	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1		✓

Test Step 2.82 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000180000003	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	87.8902435	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00980000012	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	80.0510254	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.94539928	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	124.186646	
k_AutoCntrHiSpdTimer1_mS_u16	42690	
k_AutoCntrHiSpdTimer2_mS_u16	2570	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	23.8170319	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	531.758972	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	6.92990065	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	245.5401	
k_AutoCntrHiSpdTimer4_mS_u16	34733	
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	99.4496155	
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0250000004	
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0458000004	
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	289.349548	

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VehDyn_Init1

Name	Input Value
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	14.9216394
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	158.512024
k_AutoCntrLoSpdTimer1_mS_u16	33241
k_AutoCntrLoSpdTimer2_mS_u16	55884
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999999
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	1
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-665.723022
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	437658624

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	531.758972	531.758972 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	245.5401	245.5401 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	6.92990065	6.92990065 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	23.8170319	23.8170319 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	42690	42690 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	34733	34733 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	80.0510254	80.0510254 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	124.186646	124.186646 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.94539928	8.94539928 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	87.8902435	87.8902435 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	42690	42690 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	2570	2570 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000123143196	0.000123143007 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	289.349548	289.349548 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	158.512024	158.512024 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	14.9216394	14.9216394 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	99.4496155	99.4496155 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	33241	33241 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	55884	55884 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	437658624	437658624	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.83 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.0001999999995	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	24.5077915	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0250000004	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.009899999995	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	416.42218	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.68037319	
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	168.185226	
k_AutoCntrHiSpdTimer1_mS_u16	30272	
k_AutoCntrHiSpdTimer2_mS_u16	2904	
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	51.7886963	
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	272.816681	
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	13.0401011	
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	209.062363	
k_AutoCntrHiSpdTimer4_mS_u16	3628	

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VehDyn_Init1

Name	Input Value
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	59.735672
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.063000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00499999989
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	499.624054
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	6.55805016
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	125.396591
k_AutoCntrLoSpdTimer1_mS_u16	36412
k_AutoCntrLoSpdTimer2_mS_u16	14998
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.0250000004
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.582000017
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-689.755981
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	3941357312

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	272.816681	272.816681 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	209.062363	209.062363 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	13.0401011	13.0401011 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	51.7886963	51.7886963 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	30272	30272 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	3628	3628 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	416.42218	416.42218 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	168.185226	168.185226 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.68037319	8.68037319 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	24.5077915	24.5077915 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	30272	30272 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	2904	2904 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000124394894	0.000124398997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	499.624054	499.624054 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	125.396591	125.396591 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.55805016	6.55805016 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	59.735672	59.735672 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	36412	36412 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	14998	14998 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3941357312	3941357312	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.582000017	0.582000017	✓
VehDyn_SLPHwPos_HwDeg_M_f32	-689.755981	-689.755981	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.84 (Repeat Count = 1)	
Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000220000002
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	91.3826141
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.063000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00749999983
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	683.818359
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	0.0764636993
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	34.4863586
k_AutoCntrHiSpdTimer1_mS_u16	23210
k_AutoCntrHiSpdTimer2_mS_u16	3238
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	75.1060562

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VehDyn_Init1

Name	Input Value		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	108.829964		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	7.80758333		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	169.04245		
k_AutoCntrHiSpdTimer4_mS_u16	7187		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	53.7309608		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0320999995		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00899999961		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	228.670547		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	16.7742443		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	174.289764		
k_AutoCntrLoSpdTimer1_mS_u16	11413		
k_AutoCntrLoSpdTimer2_mS_u16	48604		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.063000001		
k_SLPEnableBFCheck_Cnt_lgc	1		
k_SLPHwAuthority_Uls_f32	0.58859998		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-1600		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1		
tgt_GetSystemTime_mS_u32_CurrentTime	3304439296		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	108.829964	108.829964 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	169.04245	169.04245 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	7.80758333	7.80758333 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	75.1060562	75.1060562 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	23210	23210 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	7187	7187 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	683.818359	683.818359 ± 0.2	✔
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	34.4863586	34.4863586 ± 0.5	✔
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	0.0764636993	0.0764636993 ± 0.04	✔
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	91.3826141	91.3826141 ± 0.0625	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	23210	23210 ± 2	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3238	3238 ± 2	✔
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	9.42349434e-005	9.4199997e-005 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	228.670547	228.670547 ± 0.2	✔
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	174.289764	174.289764 ± 0.5	✔
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.7742443	16.7742443 ± 0.04	✔
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	53.7309608	53.7309608 ± 0.0625	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	11413	11413 ± 2	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	48604	48604 ± 2	✔
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3304439296	3304439296	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000403285027	0.000403298996 ± 1.25663627181805E-06	✔
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✔
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✔
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✔
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 2.85 (Repeat Count = 1)		✓
Name	Input Value	
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime	
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2	
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000239999994	
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	77.5132141	
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00200000009	
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.01499999997	
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	39.0381813	
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	5.52265358	

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VehDyn_Init1

Name	Input Value
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	232.692337
k_AutoCntrHiSpdTimer1_mS_u16	38590
k_AutoCntrHiSpdTimer2_mS_u16	3572
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	5.39439726
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	400.168243
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	19.648386
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	17.4615631
k_AutoCntrHiSpdTimer4_mS_u16	37023
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	62.1222305
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0850000009
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0250000004
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	443.858398
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	3.18688083
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	226.96962
k_AutoCntrLoSpdTimer1_mS_u16	54120
k_AutoCntrLoSpdTimer2_mS_u16	46193
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00200000009
k_SLPEnableBFCheck_Cnt_lgc	0
k_SLPHwAuthority_Uls_f32	0.595200002
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1600
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	0
tgt_GetSystemTime_mS_u32_CurrentTime	2167769344

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	400.168243	400.168243 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	17.4615631	17.4615631 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	19.648386	19.648386 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	5.39439726	5.39439726 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	38590	38590 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	37023	37023 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	39.0381813	39.0381813 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	232.692337	232.692337 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	5.52265358	5.52265358 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	77.5132141	77.5132141 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	38590	38590 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3572	3572 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000188469887	0.000188478007 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	443.858398	443.858398 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	226.96962	226.96962 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	3.18688083	3.18688083 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	62.1222305	62.1222305 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	54120	54120 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	46193	46193 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	2167769344	2167769344	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00106757879	0.00106757099 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	2.51531601e-005	2.51000001e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.595200002	0.595200002	✓
VehDyn_SLPHwPos_HwDeg_M_f32	1600	1600	✓

T	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000260000001
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	7.04372168

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VehDyn_Init1

Name	Input Value
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00499999989
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	55.3411407
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	6.96820259
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	102.746277
k_AutoCntrHiSpdTimer1_mS_u16	6114
k_AutoCntrHiSpdTimer2_mS_u16	3906
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	55.9956245
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	84.2065811
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	15.3837309
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	119.126099
k_AutoCntrHiSpdTimer4_mS_u16	32226
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	9.00450611
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00300000003
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.00700000022
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	145.500351
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	12.452816
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	94.8519287
k_AutoCntrLoSpdTimer1_mS_u16	19115
k_AutoCntrLoSpdTimer2_mS_u16	24462
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989
k_SLPEnableBFCheck_Cnt_lgc	1
k_SLPHwAuthority_Uls_f32	0.601800025
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	0
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_lgc	target_VehDyn_Init1_FaultBFActive_Cnt_lgc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_lgc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	3714197504

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	84.2065811	84.2065811 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	119.126099	119.126099 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	15.3837309	15.3837309 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	55.9956245	55.9956245 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	6114	6114 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	32226	32226 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.76701355e-005	3.76999997e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	8.79764557e-005	8.80000007e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	55.3411407	55.3411407 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	102.746277	102.746277 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	6.96820259	6.96820259 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	7.04372168	7.04372168 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	6114	6114 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	3906	3906 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	145.500351	145.500351 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	94.8519287	94.8519287 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	12.452816	12.452816 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	9.00450611	9.00450611 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	19115	19115 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	24462	24462 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	3714197504	3714197504	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	3.76701355e-005	3.76999997e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	8.79764557e-005	8.80000007e-005 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

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VehDyn_Init1

Test Step 2.87 (Repeat Count = 1)



Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000280000007
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	

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VehDyn_Init1

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Step 2.88 (Repeat Count = 1)

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000300000014		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	7.2738266		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.0458000004		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.063000001		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	460.901886		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	8.00629902		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	92.026535		
k_AutoCntrHiSpdTimer1_mS_u16	16931		
k_AutoCntrHiSpdTimer2_mS_u16	4574		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	51.3993683		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	119.134666		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	0		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	103.723984		
k_AutoCntrHiSpdTimer4_mS_u16	51145		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	65.2026672		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.00899999961		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0250000004		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	581.690918		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	6.79465103		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	236.401962		
k_AutoCntrLoSpdTimer1_mS_u16	46296		
k_AutoCntrLoSpdTimer2_mS_u16	9393		
k_AutoCntrPinTrqLPCCoeffKn_Hz_f32	0.0458000004		
k_SLPEnableBFCheck_Cnt_Igc	1		
k_SLPHwAuthority_Uls_f32	0.61500001		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-809.921021		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	1		
tgt_GetSystemTime_mS_u32_CurrentTime	71426560		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	119.134666	119.134666 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	103.723984	103.723984 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	0	0 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	51.3993683	51.3993683 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	16931	16931 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	51145	51145 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	460.901886	460.901886 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	92.026535	92.026535 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	8.00629902	8.00629902 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	7.2738266	7.2738266 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	16931	16931 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	4574	4574 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000791370869	0.000791368017 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	581.690918	581.690918 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	236.401962	236.401962 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	6.79465103	6.79465103 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	65.2026672	65.2026672 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	46296	46296 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	9393	9393 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	71426560	71426560	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000113070011	0.000113091002 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000314116478	0.000314109988 ± 1.25663627181805E-06	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.000575363636	0.000575373997 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓

Test Case 3: Path Test

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

CPU Cycles:

TS3.1 4053.00 Cycles
TS3.2 3974.00 Cycles

Description Vector Description:

TS3.1(((Rte_Pim_MotPosReset()->NVMMStoredLastPosValid_Cnt_Igc) == TRUE) && (((FaultBFActive_Cnt_T_Igc & k_SLPEnableBFCheck_Cnt_Igc) == FALSE)))=FALSE
TS3.2(((Rte_Pim_MotPosReset()->NVMMStoredLastPosValid_Cnt_Igc) == TRUE) && (((FaultBFActive_Cnt_T_Igc & k_SLPEnableBFCheck_Cnt_Igc) == FALSE)))=TRUE

Test Step 3.1 (Repeat Count = 1)

Name	Input Value
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00125584798
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	100
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.100000001
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.100000001
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	700
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	255
k_AutoCntrHiSpdTimer1_mS_u16	60000
k_AutoCntrHiSpdTimer2_mS_u16	60000
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	100
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	700
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	20
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	255
k_AutoCntrHiSpdTimer4_mS_u16	60000
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	100
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.100000001
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.100000001
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	700
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	20
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	255
k_AutoCntrLoSpdTimer1_mS_u16	60000
k_AutoCntrLoSpdTimer2_mS_u16	60000
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.100000001
k_SLPEnableBFCheck_Cnt_Igc	1
k_SLPHwAuthority_Uls_f32	1
target_Pim_MotPosReset.NVMMStoredLastPos_HwDeg_f32	1600
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	1
tgt_GetSystemTime_mS_u32_CurrentTime	4294967295

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	700	700 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	255	255 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	20	20 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	100	100 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	60000	60000 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	4294967295	4294967295	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	0.00125586987	0.00125584798 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0	0	✓
VehDyn_SLPHwPos_HwDeg_M_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

Test Step 3.2 (Repeat Count = 1) ✓

Name	Input Value		
GetSystemTime_mS_u32(CurrentTime)	tgt_GetSystemTime_mS_u32_CurrentTime		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
VehDyn_PinTrqSV_M_str.K_Uls_f32	9.99999975e-006		
k_AutoCntrHiSpdCntrWindow_HwDeg_f32	16.8675175		
k_AutoCntrHiSpdFilt1Kn_Hz_f32	0.00499999989		
k_AutoCntrHiSpdFilt2Kn_Hz_f32	0.00779999979		
k_AutoCntrHiSpdTimer1MtrVel_MtrRadpS_f32	511.249969		
k_AutoCntrHiSpdTimer1PinTrq_HwNm_f32	2.49991417		
k_AutoCntrHiSpdTimer1VehSpd_kph_f32	119.398392		
k_AutoCntrHiSpdTimer1_mS_u16	19956		
k_AutoCntrHiSpdTimer2_mS_u16	1111		
k_AutoCntrHiSpdTimer4CntrWindow_HwDeg_f32	47.1357269		
k_AutoCntrHiSpdTimer4MtrVel_MtrRadpS_f32	577.715271		
k_AutoCntrHiSpdTimer4PinTrq_HwNm_f32	18.6059322		
k_AutoCntrHiSpdTimer4VehSpd_kph_f32	69.9332428		
k_AutoCntrHiSpdTimer4_mS_u16	47307		
k_AutoCntrLoSpdCntrWindow_HwDeg_f32	97.2305069		
k_AutoCntrLoSpdFilt1Kn_Hz_f32	0.0350000001		
k_AutoCntrLoSpdFilt2Kn_Hz_f32	0.0649999976		
k_AutoCntrLoSpdTimer1MtrVel_MtrRadpS_f32	0		
k_AutoCntrLoSpdTimer1PinTrq_HwNm_f32	16.4742603		
k_AutoCntrLoSpdTimer1VehSpd_kph_f32	113.628799		
k_AutoCntrLoSpdTimer1_mS_u16	49475		
k_AutoCntrLoSpdTimer2_mS_u16	38708		
k_AutoCntrPinTrqLPFCoeffKn_Hz_f32	0.00499999989		
k_SLPEnableBFCheck_Cnt_Igc	0		
k_SLPHwAuthority_Uls_f32	0.00120000006		
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1		
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1425.14795		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Init1_FaultBFActive_Cnt_Igc	target_VehDyn_Init1_FaultBFActive_Cnt_Igc		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Init1_FaultBFActive_Cnt_Igc.value	0		
tgt_GetSystemTime_mS_u32_CurrentTime	1720406272		
Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.MtrVel_MtrRadpS_f32	577.715271	577.715271 ± 0.2	✔
VehDyn_AutoCntrDetSpd_M_str.VehSpd_kph_f32	69.9332428	69.9332428 ± 0.5	✔
VehDyn_AutoCntrDetSpd_M_str.FiltPinTrq_HwNm_f32	18.6059322	18.6059322 ± 0.04	✔
VehDyn_AutoCntrDetSpd_M_str.CntrWindow_HwDeg_f32	47.1357269	47.1357269 ± 0.0625	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1Thresh_mS_u16	19956	19956 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer2Thresh_mS_u16	47307	47307 ± 2	✔
VehDyn_AutoCntrDetSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✔

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VehDyn_Init1

Name	Actual Value	Expected Value	Result
VehDyn_AutoCntrDetSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrDetSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000816464424	0.000816481013 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.MtrVel_MtrRadpS_f32	511.249969	511.249969 ± 0.2	✓
VehDyn_AutoCntrHiSpd_M_str.VehSpd_kph_f32	119.398392	119.398392 ± 0.5	✓
VehDyn_AutoCntrHiSpd_M_str.FiltPinTrq_HwNm_f32	2.49991417	2.49991417 ± 0.04	✓
VehDyn_AutoCntrHiSpd_M_str.CntrWindow_HwDeg_f32	16.8675175	16.8675175 ± 0.0625	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1Thresh_mS_u16	19956	19956 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2Thresh_mS_u16	1111	1111 ± 2	✓
VehDyn_AutoCntrHiSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrHiSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrHiSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	9.7990036e-005	9.79999968e-005 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.MtrVel_MtrRadpS_f32	0	0 ± 0.2	✓
VehDyn_AutoCntrLoSpd_M_str.VehSpd_kph_f32	113.628799	113.628799 ± 0.5	✓
VehDyn_AutoCntrLoSpd_M_str.FiltPinTrq_HwNm_f32	16.4742603	16.4742603 ± 0.04	✓
VehDyn_AutoCntrLoSpd_M_str.CntrWindow_HwDeg_f32	97.2305069	97.2305069 ± 0.0625	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1Thresh_mS_u16	49475	49475 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2Thresh_mS_u16	38708	38708 ± 2	✓
VehDyn_AutoCntrLoSpd_M_str.Timer1_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrLoSpd_M_str.Timer2_mS_u32	1720406272	1720406272	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt1SV_HwDeg_str.K_Uls_f32	0.000439703465	0.000439725991 ± 1.25663627181805E-06	✓
VehDyn_AutoCntrLoSpd_M_str.RelHwPosFilt2SV_HwDeg_str.K_Uls_f32	0.000816464424	0.000816481013 ± 1.25663627181805E-06	✓
VehDyn_PinTrqSV_M_str.K_Uls_f32	6.28232956e-005	6.2799998e-005 ± 1.25663627181805E-06	✓
VehDyn_SLPHwAuth_Uls_M_f32	0.00120000006	0.00120000006	✓
VehDyn_SLPHwPos_HwDeg_M_f32	1425.14795	1425.14795	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
GetSystemTime_mS_u32	1	GetSystemTime_mS_u32	1	✓	

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VehDyn_Trns1



Project	VehDyn
Module	VehDyn
Test Object	VehDyn_Trns1

Instrumentation: Test Object Only

Statement (C0) 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\VehDyn
Configuration File	D:\Synergy_Work_Area\VehDyn\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)\VehDyn\src\Ap_VehDyn.c
Compiler Options	-D_DATA_ACCESS= -Dconst= -Dstatic= -Dexpf=exp -I\$(PROJECTROOT)\VehDyn\utp\contract\Ap_VehDyn -I\$(PROJECTROOT)\VehDyn\utp\contract -I\$(PROJECTROOT)\NtrLib\include -I\$(PROJECTROOT)\StdDef\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470\include

Comments/Description/Specification

Name	Text
Module 'VehDyn'	<p>*****UNIT TEST INFORMATION*****</p> <p>Name of Tester:Sunita Kore Code File(s) Under Test:Ap_VehDyn.c Code File(s) Version:3 Module Design Document:VehDyn_MDD.docx Module Design Document Version:4 Data Dictionary Version:5 Unit Test Plan Version:2 Optimization Level:Level 2 Compiler (CodeGen) Version:TMS470_4.9.5 Model Type:Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.30 Total FLASH Used (Bytes):2054 Total RAM Used (Bytes):188 Total CALS Used (Bytes):107 Special Test Requirements: Test Date:9/19/2014 Comments:"NOTE1: Inline function defined in ""GlobalMacro.h"" are not unit tested.</p> <p>NOTE2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference.</p> <p>NOTE3:Regarding DD Modification:- DD: Received Version: 4 Modified version: 5 Range of variables "VehDyn_MinOffset_HwDeg_M_f32" and "VehDyn_MaxOffset_HwDeg_M_f32" are updated in DD with highlighted portion.</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

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VehDyn_Tms1



Attributes	
Name	Value
Linker File	\$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 3.2
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\VehDyn\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

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VehDyn_Trns1



Test Case 1: Metrics Test

Specification	Performance Metrics: (With "None" Instrumentation and "WithPS" Environment)
	CPU Cycles: TS1.1 588.00 Cycles Shortest Execution Path TS1.2 590.00 Cycles Longest Execution Path
Description	Vector Description: TS1.1Shortest Execution Path=>(HandWheelAuth_Uls_T_f32 >= k_SLPLMinHwAuthToStoreHwPos_Uls_f32)=TRUE TS1.2Longest Execution Path=>(HandWheelAuth_Uls_T_f32 >= k_SLPLMinHwAuthToStoreHwPos_Uls_f32)=FALSE

Test Step 1.1 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPLMinHwAuthToStoreHwPos_Uls_f32	0		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	-1600		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1	1	✔
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-1600	-1600	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Step 1.2 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPLMinHwAuthToStoreHwPos_Uls_f32	0.291999996		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	778.25		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0	0	✔
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Case 2: Boundary Test

Specification

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

CPU Cycles:

TS2.1 599.00 Cycles
TS2.2 534.00 Cycles
TS2.3 534.00 Cycles
TS2.4 534.00 Cycles
TS2.5 534.00 Cycles
TS2.6 534.00 Cycles
TS2.7 534.00 Cycles
TS2.8 580.00 Cycles
TS2.9 534.00 Cycles
TS2.10 534.00 Cycles
TS2.11 534.00 Cycles
TS2.12 580.00 Cycles
TS2.13 534.00 Cycles

Description

Vector Description:

TS2.1All Min
TS2.2All Max
TS2.3HandwheelPosition_HwDeg_f32 = Min
TS2.4HandwheelPosition_HwDeg_f32 = Max
TS2.5HandwheelPosition_HwDeg_f32 = Zero
TS2.6HandwheelPosition_HwDeg_f32 = Pos
TS2.7HandwheelPosition_HwDeg_f32 = Neg
TS2.8HwAuth_Uls_f32 = Min
TS2.9HwAuth_Uls_f32 = Max
TS2.10HwAuth_Uls_f32 = Pos
TS2.11k_SLPMinHwAuthToStoreHwPos_Uls_f32 = Min
TS2.12k_SLPMinHwAuthToStoreHwPos_Uls_f32 = Max
TS2.13k_SLPMinHwAuthToStoreHwPos_Uls_f32 = Pos

Test Step 2.1 (Repeat Count = 1)

Name	Input Value			
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2			
k_SLPMinHwAuthToStoreHwPos_Uls_f32	0			
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2			
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2			
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset			
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	-1600			
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0			
Name	Actual Value	Expected Value	Result	
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1	1	✓	
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-1600	-1600	✓	

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Step 2.2 (Repeat Count = 1)

Name	Input Value			
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2			
k_SLPMinHwAuthToStoreHwPos_Uls_f32	1			
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2			
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2			
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset			
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	1600			
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	1			
Name	Actual Value	Expected Value	Result	
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1	1	✓	
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1600	1600	✓	

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Step 2.3 (Repeat Count = 1)

Name	Input Value			
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2			
k_SLPMinHwAuthToStoreHwPos_Uls_f32	0.112000003			
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2			

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Name	Input Value		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	-1600		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0.986999989		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1	1	✔
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-1600	-1600	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Step 2.4 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPMinHwAuthToStoreHwPos_Uls_f32	0.148000002		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	1600		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0.976800025		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1	1	✔
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1600	1600	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Step 2.5 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPMinHwAuthToStoreHwPos_Uls_f32	0.184		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	0		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0.966600001		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1	1	✓
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Step 2.6 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPMinHwAuthToStoreHwPos_Uls_f32	0.219999999		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	1458.12		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0.956399977		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1	1	✔
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	1458.12	1458.12	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

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Test Step 2.7 (Repeat Count = 1) ✓

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPLMinHwAuthToStoreHwPos_Uls_f32	0.256000012		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	-145.25		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0.946200013		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1	1	✓
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-145.25	-145.25	✓

T ✓				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Step 2.8 (Repeat Count = 1) ✓

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPLMinHwAuthToStoreHwPos_Uls_f32	0.291999996		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	778.25		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0	0	✓
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	0	0	✓

T ✓				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Step 2.9 (Repeat Count = 1) ✓

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPLMinHwAuthToStoreHwPos_Uls_f32	0.328000009		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	-887.200012		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	1		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1	1	✓
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-887.200012	-887.200012	✓

T ✓				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

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Test Step 2.10 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPMInHwAuthToStoreHwPos_Uls_f32	0.363999993		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	989.140015		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0.915600002		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1	1	✔
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	989.140015	989.140015	✔

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Step 2.11 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPMInHwAuthToStoreHwPos_Uls_f32	0		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	-1014.15399		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0.905399978		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1	1	✔
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-1014.15399	-1014.15399	✔

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Step 2.12 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPMInHwAuthToStoreHwPos_Uls_f32	1		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	-245.100006		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0.895200014		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	0	0	✔
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	0	0	✔

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓

Test Step 2.13 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPMInHwAuthToStoreHwPos_Uls_f32	0.472000003		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	893.23999		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0.88499999		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_Igc	1	1	✔

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Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	893.23999	893.23999	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓	

Test Case 3: Path Test

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

CPU Cycles:

TS3.1 599.00 Cycles
TS3.2 580.00 Cycles

Description Vector Description:

TS3.1(HandWheelAuth_Uls_T_f32 >= k_SLPLMinHwAuthToStoreHwPos_Uls_f32)=TRUE
TS3.2(HandWheelAuth_Uls_T_f32 >= k_SLPLMinHwAuthToStoreHwPos_Uls_f32)=FALSE

Test Step 3.1 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPLMinHwAuthToStoreHwPos_Uls_f32	0		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	-1600		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	1	1	✔
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	-1600	-1600	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓	

Test Step 3.2 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_VehDyn	target_Rte_Inst_Ap_VehDyn_2		
k_SLPLMinHwAuthToStoreHwPos_Uls_f32	0.291999996		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HandwheelPosition_HwDeg_f32	target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2		
target_Rte_Inst_Ap_VehDyn_2.VehDyn_Trns1_HwAuth_Uls_f32	target_VehDyn_Trns1_HwAuth_Uls_f32_2		
target_Rte_Inst_Ap_VehDyn_2.Pim_MotPosReset	target_Pim_MotPosReset		
target_VehDyn_Trns1_HandwheelPosition_HwDeg_f32_2.value	778.25		
target_VehDyn_Trns1_HwAuth_Uls_f32_2.value	0		
Name	Actual Value	Expected Value	Result
target_Pim_MotPosReset.NVMStoredLastPosValid_Cnt_lgc	0	0	✓
target_Pim_MotPosReset.NVMStoredLastPos_HwDeg_f32	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	Rte_Call_Ap_VehDyn_NVM_VehDynReset_Srv_WriteBlock	1	✓	