Report Generated by Test Manager

Title: **Branch: 1-hexarotorModelAddition**
Author: **Previous Commit Hash: 78160a19360e7763db602dd690dd524f1cd25b5a**
Date: **06-May-2025 13:49:37**

Test Environment

Platform: PCWIN64
MATLAB: (R2024a)

Summary

Name	Outcome	Duration (Seconds)
Results: 2025-May-06 13:49:16	12 ✓	20.002
hexarotor	5 ✓	8.086
Vehicle Tests	5 ✓	8.087
hexAero	✓	2.552
hexAddFM	✓	1.238
hexGroundContact	✓	1.109
hexMotorModel	✓	1.433
hexAeroCoefficientsModel	✓	0.982
sensors	4 ✓	5.712
Sensor Tests	4 ✓	5.712
ins	✓	1.293
Iteration1	✓	1.293
adc	✓	1.157
Iteration1	✓	1.158
gps	✓	1.224
Iteration1	✓	1.224
sensors	✓	1.549
Iteration1	✓	1.549
environment	3 ✓	4.09
Environment Tests	3 ✓	4.091
Air	✓	1.015
Iteration1	✓	1.015
Earth	✓	2.191
Iteration1	✓	2.191
LocalTerrain	✓	0.717

Iteration1	✓	0.716

Results: 2025-May-06 13:49:16

Result Type:	Result Set
Parent:	None
Start Time:	06-May-2025 13:49:17
End Time:	06-May-2025 13:49:37
Outcome:	Total: 12, Passed: 12

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hexarotor

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2025-May-06 13:49:16
Start Time:	06-May-2025 13:49:17
End Time:	06-May-2025 13:49:25
Outcome:	Total: 5, Passed: 5

Test Suite Information

Name:	hexarotor

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Vehicle Tests

Test Result Information

Result Type:	Test Suite Result
Parent:	hexarotor
Start Time:	06-May-2025 13:49:17
End Time:	06-May-2025 13:49:25
Outcome:	Total: 5, Passed: 5

Test Suite Information

Name:	Vehicle Tests

Back to Report Summary

hexAero

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	06-May-2025 13:49:17
End Time:	06-May-2025 13:49:19
Outcome:	Passed

Test Case Information

Name:	hexAero
Type:	Baseline Test

Verify Result

Name
Test Sequence1/.../CheckDnPitchNoYaw:verify(aeroForcesMomentsBus.forcesInBody_N(1) < 0)
Test Sequence1/.../CheckDnPitchNoYaw:verify(isClose(aeroForcesMomentsBus.forcesInBody_N(2), 0))
Test Sequence1/.../CheckDnPitchNoYaw:verify(aeroForcesMomentsBus.forcesInBody_N(3) > 0)
Test Sequence1/.../CheckDnPitchNoYaw:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(1), 0))
Test Sequence1/.../CheckDnPitchNoYaw:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(2), 0))
Test Sequence1/.../CheckDnPitchNoYaw:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(3), 0))
Test Sequence1/.../CheckDnPitchNoYaw:verify(isClose(airDataBus.airspeedInBody_mps(1), 10))
Test Sequence1/.../CheckDnPitchNoYaw:verify(isClose(airDataBus.airspeedInBody_mps(2), 0))
Test Sequence1/.../CheckDnPitchNoYaw:verify(isClose(airDataBus.airspeedInBody_mps(3), -1))
Test Sequence1/.../CheckDnPitchNoYaw:verify(isClose(airDataBus.alpha_rad, -0.1, 'rtol',0.01))
Test Sequence1/.../CheckDnPitchNoYaw:verify(isClose(airDataBus.beta_rad, 0, 'rtol',0.01))
Test Sequence1/.../CheckUpPitchNoYaw:verify(aeroForcesMomentsBus.forcesInBody_N(1) < 0)
Test Sequence1/.../CheckUpPitchNoYaw:verify(isClose(aeroForcesMomentsBus.forcesInBody_N(2), 0))
Test Sequence1/.../CheckUpPitchNoYaw:verify(aeroForcesMomentsBus.forcesInBody_N(3) < 0)
Test Sequence1/.../CheckUpPitchNoYaw:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(1), 0))
Test Sequence1/.../CheckUpPitchNoYaw:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(2), 0))
Test Sequence1/.../CheckUpPitchNoYaw:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(3), 0))
Test Sequence1/.../CheckUpPitchNoYaw:verify(isClose(airDataBus.airspeedInBody_mps(1), 10))
Test Sequence1/.../CheckUpPitchNoYaw:verify(isClose(airDataBus.airspeedInBody_mps(2), 0))
Test Sequence1/.../CheckUpPitchNoYaw:verify(isClose(airDataBus.airspeedInBody_mps(3), 1))
Test Sequence1/.../CheckUpPitchNoYaw:verify(isClose(airDataBus.alpha_rad, 0.1, 'rtol',0.01))

- Test Sequence1/.../CheckUpPitchNoYaw:verify(isClose(airDataBus.beta_rad, 0, 'rtol',0.01))
- Test Sequence1/.../CheckDnPitchNoseLeft:verify(aeroForcesMomentsBus.forcesInBody_N(1) < 0)
- Test Sequence1/.../CheckDnPitchNoseLeft:verify(aeroForcesMomentsBus.forcesInBody_N(2) < 0)
- Test Sequence1/.../CheckDnPitchNoseLeft:verify(aeroForcesMomentsBus.forcesInBody_N(3) > 0)
- Test Sequence1/.../CheckDnPitchNoseLeft:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(1), 0))
- Test Sequence1/.../CheckDnPitchNoseLeft:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(2), 0))
- Test Sequence1/.../CheckDnPitchNoseLeft:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(3), 0))
- Test Sequence1/.../CheckDnPitchNoseLeft:verify(isClose(airDataBus.airspeedInBody_mps(1), 10))
- Test Sequence1/.../CheckDnPitchNoseLeft:verify(isClose(airDataBus.airspeedInBody_mps(2), 1))
- Test Sequence1/.../CheckDnPitchNoseLeft:verify(isClose(airDataBus.airspeedInBody_mps(3), -1))
- Test Sequence1/.../CheckDnPitchNoseLeft:verify(isClose(airDataBus.alpha_rad, -0.1, 'rtol',0.01))
- Test Sequence1/.../CheckDnPitchNoseLeft:verify(isClose(airDataBus.beta_rad, 0.1, 'rtol',0.01))
- Test Sequence1/.../CheckDnPitchNoseRight:verify(aeroForcesMomentsBus.forcesInBody_N(1) < 0)
- Test Sequence1/.../CheckDnPitchNoseRight:verify(aeroForcesMomentsBus.forcesInBody_N(2) > 0)
- Test Sequence1/.../CheckDnPitchNoseRight:verify(aeroForcesMomentsBus.forcesInBody_N(3) > 0)
- Test Sequence1/.../CheckDnPitchNoseRight:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(1), 0))
- Test Sequence1/.../CheckDnPitchNoseRight:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(2), 0))
- Test Sequence1/.../CheckDnPitchNoseRight:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(3), 0))
- Test Sequence1/.../CheckDnPitchNoseRight:verify(isClose(airDataBus.airspeedInBody_mps(1), 10))
- Test Sequence1/.../CheckDnPitchNoseRight:verify(isClose(airDataBus.airspeedInBody_mps(2), -1))
- Test Sequence1/.../CheckDnPitchNoseRight:verify(isClose(airDataBus.airspeedInBody_mps(3), -1))
- Test Sequence1/.../CheckDnPitchNoseRight:verify(isClose(airDataBus.alpha_rad, -0.1, 'rtol',0.01))
- Test Sequence1/.../CheckDnPitchNoseRight:verify(isClose(airDataBus.beta_rad, -0.1, 'rtol',0.01))
- Test Sequence1/.../CheckUpPitchNoseRightWind:verify(aeroForcesMomentsBus.forcesInBody_N(1) < 0)
- Test Sequence1/.../CheckUpPitchNoseRightWind:verify(aeroForcesMomentsBus.forcesInBody_N(2) > 0)
- Test Sequence1/.../CheckUpPitchNoseRightWind:verify(aeroForcesMomentsBus.forcesInBody_N(3) < 0)
- Test Sequence1/.../CheckUpPitchNoseRightWind:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(1), 0))
- Test Sequence1/.../CheckUpPitchNoseRightWind:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(2), 0))
- Test Sequence1/.../CheckUpPitchNoseRightWind:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(3), 0))
- Test Sequence1/.../CheckUpPitchNoseRightWind:verify(isClose(airDataBus.airspeedInBody_mps(1), 10, 'rtol',0.1))
- Test Sequence1/.../CheckUpPitchNoseRightWind:verify(isClose(airDataBus.airspeedInBody_mps(2), -1, 'rtol',0.1))
- Test Sequence1/.../CheckUpPitchNoseRightWind:verify(isClose(airDataBus.airspeedInBody_mps(3), 1, 'rtol',0.1))
- Test Sequence1/.../CheckUpPitchNoseRightWind:verify(isClose(airDataBus.alpha_rad, 0.1, 'rtol',0.1))
- Test Sequence1/.../CheckUpPitchNoseRightWind:verify(isClose(airDataBus.beta_rad, -0.1, 'rtol',0.1))

Simulation

System Under Test Information

Model:	hexAero
Harness:	hexAeroTestHarness
Harness Owner:	hexAero
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Start Time:	0
Stop Time:	5.024
Checksum:	2508330184 3522135311 2581022549 2850232783

Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

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hexAddFM

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	06-May-2025 13:49:20
End Time:	06-May-2025 13:49:21
Outcome:	Passed

Test Case Information

Name:	hexAddFM
Type:	Baseline Test

Verify Result

Name
Test Sequence1/.../Test1:verify(all(isClose(aircraftForcesMomentsBus.forcesInBody_N, aeroForcesMomentsBus.forcesInBody_N + engineForcesMomentsBus.forcesInBody_N + groundForcesMomentsBus.forcesInBody_N + weightForcesMomentsBus.forcesInBody_N)))
Test Sequence1/.../Test1:verify(all(isClose(aircraftForcesMomentsBus.momentsInBody_Nm, engineForcesMomentsBus.momentsInBody_Nm + aeroForcesMomentsBus.momentsInBody_Nm + weightForcesMomentsBus.momentsInBody_Nm + groundForcesMomentsBus.momentsInBody_Nm)))
Test Sequence1/.../Test2:verify(all(isClose(aircraftForcesMomentsBus.forcesInBody_N, aeroForcesMomentsBus.forcesInBody_N + engineForcesMomentsBus.forcesInBody_N + groundForcesMomentsBus.forcesInBody_N + weightForcesMomentsBus.forcesInBody_N)))
Test Sequence1/.../Test2:verify(all(isClose(aircraftForcesMomentsBus.momentsInBody_Nm, aeroForcesMomentsBus.momentsInBody_Nm + engineForcesMomentsBus.momentsInBody_Nm + weightForcesMomentsBus.momentsInBody_Nm + groundForcesMomentsBus.momentsInBody_Nm)))

Simulation

System Under Test Information

Model:	hexAddFm
Harness:	hexAddFmTestHarness
Harness Owner:	hexAddFm
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	hexAddFmTestHarness/Test Sequence1
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	3.012
Checksum:	1105659589 4136729376 4074788328 2150945003

Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

Back to Report Summary

hexGroundContact

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	06-May-2025 13:49:21
End Time:	06-May-2025 13:49:22
Outcome:	Passed

Test Case Information

Name:	hexGroundContact
Type:	Baseline Test

Simulation

System Under Test Information

Model:	hexGroundContact
Harness:	hexGroundContactTestHarness
Harness Owner:	hexGroundContact
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	hexGroundContactTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	0.0040000000000000001
Checksum:	1947350973 3930521946 2397348193 14377200

Simulation Logs:
No data is logged for the model 'hexGroundContactTestHarness'.

Back to Report Summary

Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

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hexMotorModel

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	06-May-2025 13:49:22
End Time:	06-May-2025 13:49:24
Outcome:	Passed

Test Case Information

Name:	hexMotorModel
Type:	Baseline Test

Verify Result

Name
Test Sequence/.../verifyNoSpin:verify(isClose(sum(propulsionBus.rotorAngVel_radps),0))
Test Sequence/.../verifyNoSpin:verify(isClose(sum(propulsionBus.engineForcesMoments.forcesInBody_N),0))
Test Sequence/.../verifyNoSpin:verify(isClose(sum(propulsionBus.engineForcesMoments.momentsInBody_Nm),0))
Test Sequence/.../verifyControllerArm:verify(isClose(sum(propulsionBus.rotorAngVel_radps)/6, 3473 * rpm2radps))
Test Sequence/.../verifyControllerArm:verify(propulsionBus.engineForcesMoments.forcesInBody_N(3) < 0)
Test Sequence/.../verifyControllerArm:verify(isClose(sum(propulsionBus.engineForcesMoments.momentsInBody_Nm(3)), 0))
Test Sequence/.../verifyOutputNoChange:verify(isClose(propulsionBus.engineForcesMoments.forcesInBody_N(1),maxForce(1)))
Test Sequence/.../verifyOutputNoChange:verify(isClose(propulsionBus.engineForcesMoments.forcesInBody_N(2),maxForce(2)))

Test Sequence/.../verifyOutputNoChange:verify(isClose(propulsionBus.engineForcesMoments.forcesInBody_N(3),maxForce(3)))

Test Sequence/.../verifyOutputNoChange:verify(isClose(maxAngVel_radps,propulsionBus.rotorAngVel_radps(1)))

Test Sequence/.../verifyMotor1OnlyRunning:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(1) < 0)

Test Sequence/.../verifyMotor1OnlyRunning:verify(isClose(propulsionBus.engineForcesMoments.momentsInBody_Nm(2), 0))

Test Sequence/.../verifyMotor1OnlyRunning:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(3) < 0)

Test Sequence/.../verifyMotor1OnlyRunning:verify(isClose(propulsionBus.engineForcesMoments.forcesInBody_N(3),maxForce(3) / 6))

Test Sequence/.../verifyMotor2OnlyRunning:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(1) > 0)

Test Sequence/.../verifyMotor2OnlyRunning:verify(isClose(propulsionBus.engineForcesMoments.momentsInBody_Nm(2), 0))

Test Sequence/.../verifyMotor2OnlyRunning:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(3) > 0)

Test Sequence/.../verifyMotor2OnlyRunning:verify(isClose(propulsionBus.engineForcesMoments.forcesInBody_N(3),maxForce(3) / 6))

Test Sequence/.../verifyMotor3:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(1) > 0)

Test Sequence/.../verifyMotor3:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(2) > 0)

Test Sequence/.../verifyMotor3:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(3) < 0)

Test Sequence/.../verifyMotor3:verify(isClose(propulsionBus.engineForcesMoments.forcesInBody_N(3),maxForce(3) / 6))

Test Sequence/.../verifyMotor4:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(1) < 0)

Test Sequence/.../verifyMotor4:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(2) < 0)

Test Sequence/.../verifyMotor4:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(3) > 0)

Test Sequence/.../verifyMotor4:verify(isClose(propulsionBus.engineForcesMoments.forcesInBody_N(3),maxForce(3) / 6))

Test Sequence/.../verifyMotor5:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(1) < 0)

Test Sequence/.../verifyMotor5:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(2) > 0)

Test Sequence/.../verifyMotor5:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(3) < 0)

Test Sequence/.../verifyMotor5:verify(isClose(propulsionBus.engineForcesMoments.forcesInBody_N(3),maxForce(3) / 6))

Test Sequence/.../verifyMotor6:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(1) > 0)

Test Sequence/.../verifyMotor6:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(2) < 0)

Test Sequence/.../verifyMotor6:verify(propulsionBus.engineForcesMoments.momentsInBody_Nm(3) > 0)

Test Sequence/.../verifyMotor6:verify(isClose(propulsionBus.engineForcesMoments.forcesInBody_N(3),maxForce(3) / 6))

Test Sequence/.../verifyOutputZero:verify(isClose(sum(propulsionBus.rotorAngVel_radps),0))

Test Sequence/.../verifyOutputZero:verify(isClose(sum(propulsionBus.engineForcesMoments.forcesInBody_N),0))

Test Sequence/.../verifyOutputZero:verify(isClose(sum(propulsionBus.engineForcesMoments.momentsInBody_Nm),0))

Simulation

System Under Test Information

Model:	hexMotorModel
Harness:	hexMotorModelTestHarness
Harness Owner:	hexMotorModel
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	hexMotorModelTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	10.044
Checksum:	462101642 3654188142 2552653443 1389725198

Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

Back to Report Summary

hexAeroCoefficientsModel

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	06-May-2025 13:49:24
End Time:	06-May-2025 13:49:25
Outcome:	Passed

Test Case Information

Name:	hexAeroCoefficientsModel
Type:	Baseline Test

Verify Result

Name

- Test Sequence/.../checkNoseDn:verify(CF(1) < 0)
- Test Sequence/.../checkNoseDn:verify(isClose(CF(2), 0))
- Test Sequence/.../checkNoseDn:verify(CF(3) > 0)
- Test Sequence/.../checkNoseDn:verify(isClose(CM(1), 0))
- Test Sequence/.../checkNoseDn:verify(isClose(CM(2), 0))
- Test Sequence/.../checkNoseDn:verify(isClose(CM(3), 0))
- Test Sequence/.../checkNoseUp:verify(CF(1) < 0)
- Test Sequence/.../checkNoseUp:verify(isClose(CF(2), 0))
- Test Sequence/.../checkNoseUp:verify(CF(3) < 0)
- Test Sequence/.../checkNoseUp:verify(isClose(CM(1), 0))
- Test Sequence/.../checkNoseUp:verify(isClose(CM(2), 0))
- Test Sequence/.../checkNoseUp:verify(isClose(CM(3), 0))
- Test Sequence/.../checkNoseDnLeft:verify(CF(1) < 0)
- Test Sequence/.../checkNoseDnLeft:verify(CF(2) < 0)
- Test Sequence/.../checkNoseDnLeft:verify(CF(3) > 0)
- Test Sequence/.../checkNoseDnLeft:verify(isClose(CM(1), 0))
- Test Sequence/.../checkNoseDnLeft:verify(isClose(CM(2), 0))
- Test Sequence/.../checkNoseDnLeft:verify(isClose(CM(3), 0))
- Test Sequence/.../checkNoseDnRight:verify(CF(1) < 0)
- Test Sequence/.../checkNoseDnRight:verify(CF(2) > 0)
- Test Sequence/.../checkNoseDnRight:verify(CF(3) > 0)
- Test Sequence/.../checkNoseDnRight:verify(isClose(CM(1), 0))
- Test Sequence/.../checkNoseDnRight:verify(isClose(CM(2), 0))
- Test Sequence/.../checkNoseDnRight:verify(isClose(CM(3), 0))

Simulation

System Under Test Information

Model:	hexAeroCoefficientsModel
Harness:	hexAeroCoefficientsModelTestHarness
Harness Owner:	hexAeroCoefficientsModel
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration

Test Sequence Block:	hexAeroCoefficientsModelTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	4.0200000000000005
Checksum:	695379032 3674786713 3823592554 390687074

Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

Back to Report Summary

sensors

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2025-May-06 13:49:16
Start Time:	06-May-2025 13:49:25
End Time:	06-May-2025 13:49:31
Outcome:	Total: 4, Passed: 4

Test Suite Information

Name:	sensors

Back to Report Summary

Sensor Tests

Test Result Information

Result Type:	Test Suite Result
Parent:	sensors
Start Time:	06-May-2025 13:49:25

End Time: 06-May-2025 13:49:31
Outcome: Total: 4, Passed: 4

Test Suite Information

Name: Sensor Tests

Back to Report Summary

ins

Test Result Information

Result Type: Test Case Result
Parent: Sensor Tests
Start Time: 06-May-2025 13:49:25
End Time: 06-May-2025 13:49:27
Outcome: Passed

Test Case Information

Name: ins
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: ins
Start Time: 06-May-2025 13:49:25
End Time: 06-May-2025 13:49:27
Outcome: Passed

Test Case Information

Name: Iteration1
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

Name
Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.GyroSensorBus.x_radps, 0, 'atol', 0.01))
Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.GyroSensorBus.y_radps, 0, 'atol', 0.01))
Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.GyroSensorBus.z_radps, 0, 'atol', 0.01))
Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.AccelSensorBus.x_mps2, 0, 'atol', 0.01))
Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.AccelSensorBus.y_mps2, 0, 'atol', 0.01))
Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.AccelSensorBus.z_mps2, 0, 'atol', 0.01))
Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.GyroSensorBus.x_radps, 0.1, 'atol', 0.01))
Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.GyroSensorBus.y_radps, 0.2, 'atol', 0.01))
Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.GyroSensorBus.z_radps, 0.3, 'atol', 0.01))
Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.MagSensorBus.x_Gauss, 0, 'atol', 0.01))
Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.MagSensorBus.y_Gauss, 0, 'atol', 0.01))
Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.MagSensorBus.z_Gauss, 0, 'atol', 0.01))
Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.AccelSensorBus.x_mps2, 1, 'atol', 0.01))
Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.AccelSensorBus.y_mps2, 2, 'atol', 0.01))
Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.AccelSensorBus.z_mps2, 3, 'atol', 0.01))

Simulation

System Under Test Information

Model:	ins
Harness:	insTestHarness
Harness Owner:	ins
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	insTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1

Start Time:	0
Stop Time:	10.008000000000001
Checksum:	3180580520 4092729406 197588729 847202452

Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

Back to Report Summary

adc

Test Result Information

Result Type:	Test Case Result
Parent:	Sensor Tests
Start Time:	06-May-2025 13:49:27
End Time:	06-May-2025 13:49:28
Outcome:	Passed

Test Case Information

Name:	adc
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	adc
Start Time:	06-May-2025 13:49:27
End Time:	06-May-2025 13:49:28
Outcome:	Passed

Test Case Information

Name: Iteration1
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

Name
Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.BaroSensorBus.altitude_m, 0, 'atol', 20))
Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.BaroSensorBus.pressure_pa, 101325, 'atol', 100))
Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.BaroSensorBus.temperature_degC, 15, 'atol', 2))
Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa, 0, 'atol', 100))
Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.DiffPressureSensorBus.temperature_degC, 15, 'atol', 2))
Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.BaroSensorBus.altitude_m, 3048, 'atol', 20))
Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.BaroSensorBus.pressure_pa, 69681.66, 'atol', 100))
Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.BaroSensorBus.temperature_degC, -4.8, 'atol', 2))
Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa, 0, 'atol', 100))
Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.temperature_degC, -4.8, 'atol', 2))
Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.BaroSensorBus.altitude_m, 6096, 'atol', 20))
Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.BaroSensorBus.pressure_pa, 46563.26, 'atol', 100))
Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.BaroSensorBus.temperature_degC, -24.624, 'atol', 2))
Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa, 0, 'atol', 100))
Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.temperature_degC, -24.624, 'atol', 2))
Test Sequence/.../checkDiffPress:verify(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa > 0)

Simulation

System Under Test Information

Model: adc
Harness: adcTestHarness
Harness Owner: adc

Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	adcTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	0.032000000000000001
Checksum:	2809421967 1308668717 4053094731 2792199182

Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

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gps

Test Result Information

Result Type:	Test Case Result
Parent:	Sensor Tests
Start Time:	06-May-2025 13:49:28
End Time:	06-May-2025 13:49:29
Outcome:	Passed

Test Case Information

Name:	gps
Type:	Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: gps
Start Time: 06-May-2025 13:49:28
End Time: 06-May-2025 13:49:29
Outcome: Passed

Test Case Information

Name: Iteration1
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

Name
Test Sequence/.../checkGpsStatic:verify(isClose(GPSSensorBus.lat_deg, referenceLatitude_deg))
Test Sequence/.../checkGpsStatic:verify(isClose(GPSSensorBus.lon_deg, referenceLongitude_deg))
Test Sequence/.../checkGpsStatic:verify(isClose(GPSSensorBus.alt_m, terrainHeightNED_m, 'atol', 0.5))
Test Sequence/.../checkGpsStatic:verify(isClose(GPSSensorBus.vel_mps, 0, 'atol', 0.5))
Test Sequence/.../checkGpsStatic:verify(isClose(GPSSensorBus.vel_n_mps, 0, 'atol', 0.5))
Test Sequence/.../checkGpsStatic:verify(isClose(GPSSensorBus.vel_e_mps, 0, 'atol', 0.5))
Test Sequence/.../checkGpsStatic:verify(isClose(GPSSensorBus.vel_d_mps, 0, 'atol', 0.5))
Test Sequence/.../checkHighDynamic:verify(isClose(GPSSensorBus.lat_deg, referenceLatitude_deg))
Test Sequence/.../checkHighDynamic:verify(isClose(GPSSensorBus.lon_deg, referenceLongitude_deg))
Test Sequence/.../checkHighDynamic:verify(isClose(GPSSensorBus.alt_m, 3048 + terrainHeightNED_m))
Test Sequence/.../checkHighDynamic:verify(isClose(GPSSensorBus.vel_mps, norm([10 20 30]), 'rtol', 0.8))
Test Sequence/.../checkHighDynamic:verify(isClose(GPSSensorBus.vel_n_mps, 10, 'rtol', 0.1))
Test Sequence/.../checkHighDynamic:verify(isClose(GPSSensorBus.vel_e_mps, 20, 'rtol', 0.1))
Test Sequence/.../checkHighDynamic:verify(isClose(GPSSensorBus.vel_d_mps, 30, 'rtol', 0.1))

Simulation

System Under Test Information

Model:	gps
Harness:	gpsTestHarness
Harness Owner:	gps
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	gpsTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	0.016
Checksum:	1261040433 1750074340 274485945 283260561

Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

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sensors

Test Result Information

Result Type:	Test Case Result
Parent:	Sensor Tests
Start Time:	06-May-2025 13:49:29
End Time:	06-May-2025 13:49:31
Outcome:	Passed

Test Case Information

Name:	sensors

Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: sensors
Start Time: 06-May-2025 13:49:29
End Time: 06-May-2025 13:49:31
Outcome: Passed

Test Case Information

Name: Iteration1
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Simulation

System Under Test Information

Model: sensors
Harness: sensorsTestHarness
Harness Owner: sensors
Release: Current
Simulation Mode: normal
Override SIL or PIL Mode: 0
Configuration Set: standardSILConfiguration
Test Sequence Block: sensorsTestHarness/Test Sequence
Test Sequence Scenario: Scenario_1
Start Time: 0
Stop Time: 0.20000000000000001
Checksum: 3685639760 4247597233 3511659855 3311356939

Simulation Logs:
No data is logged for the model 'sensorsTestHarness'.

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Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

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environment

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2025-May-06 13:49:16
Start Time:	06-May-2025 13:49:31
End Time:	06-May-2025 13:49:35
Outcome:	Total: 3, Passed: 3

Test Suite Information

Name:	environment

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Environment Tests

Test Result Information

Result Type:	Test Suite Result

Parent:	environment
Start Time:	06-May-2025 13:49:31
End Time:	06-May-2025 13:49:35
Outcome:	Total: 3, Passed: 3

Test Suite Information

Name:	Environment Tests

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Air

Test Result Information

Result Type:	Test Case Result
Parent:	Environment Tests
Start Time:	06-May-2025 13:49:31
End Time:	06-May-2025 13:49:32
Outcome:	Passed

Test Case Information

Name:	Air
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	Air
Start Time:	06-May-2025 13:49:31
End Time:	06-May-2025 13:49:32
Outcome:	Passed

Test Case Information

Name:	Iteration1

Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

Name
Test Sequence/.../Test1:verify(isClose(AirEnvironmentBus.windSpeedInNED_mps(1), 4))
Test Sequence/.../Test1:verify(isClose(AirEnvironmentBus.windSpeedInNED_mps(2), 3))
Test Sequence/.../Test1:verify(isClose(AirEnvironmentBus.windSpeedInNED_mps(3), 2))
Test Sequence/.../Test1:verify(isClose(AirEnvironmentBus.airTemperature_K, 288.15))
Test Sequence/.../Test1:verify(isClose(AirEnvironmentBus.airPressure_Pa, 1.01325e5))
Test Sequence/.../Test1:verify(isClose(AirEnvironmentBus.airDensity_kgpm3, 1.225))
Test Sequence/.../Test1:verify(isClose(AirEnvironmentBus.speedOfSound_mps, 340.29412435))

Simulation

System Under Test Information

Model:	Air
Harness:	AirTestHarness
Harness Owner:	Air
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	AirTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	3.004
Checksum:	2333579960 118194984 3293710571 2811700376

Test Logs:

No baseline criteria evaluation performed as no baseline data is available for this test.

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Earth

Test Result Information

Result Type:	Test Case Result
Parent:	Environment Tests
Start Time:	06-May-2025 13:49:32
End Time:	06-May-2025 13:49:35
Outcome:	Passed

Test Case Information

Name:	Earth
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	Earth
Start Time:	06-May-2025 13:49:32
End Time:	06-May-2025 13:49:35
Outcome:	Passed

Test Case Information

Name:	Iteration1
Type:	Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

Name
Test Sequence1/.../verifyAircraftZChange:verify(gravLow_mps2 > EarthEnvironmentBus.gravityScalar_mps2)

Simulation

System Under Test Information

Model:	Earth
Harness:	EarthTestHarness
Harness Owner:	Earth
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	EarthTestHarness/Test Sequence1
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	7
Checksum:	1175429799 1798864983 927034458 1191542450

Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

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LocalTerrain

Test Result Information

Result Type:	Test Case Result
Parent:	Environment Tests
Start Time:	06-May-2025 13:49:35
End Time:	06-May-2025 13:49:35
Outcome:	Passed

Test Case Information

Name:	LocalTerrain
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	LocalTerrain
Start Time:	06-May-2025 13:49:35
End Time:	06-May-2025 13:49:35
Outcome:	Passed

Test Case Information

Name:	Iteration1
Type:	Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Simulation

System Under Test Information

Model:	LocalTerrain
Harness:	LocalTerrainTestHarness
Harness Owner:	LocalTerrain
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	LocalTerrainTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	0.0040000000000000001
Checksum:	3805200661 3804672667 1828039431 394193071

Simulation Logs:
No data is logged for the model 'LocalTerrainTestHarness'.

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Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

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