Report Generated by Test Manager

Title: **Branch: 14-updateReadme-optimWIP**
Author: **Previous Commit Hash: 878eafd7cb7d5d624897f7f967728746563dbb82**
Date: **05-Nov-2025 17:59:55**

Test Environment

Platform: PCWIN64
MATLAB: (R2024a)

Summary

Name	Outcome	Duration (Seconds)
Results: 2025-Nov-05 17:59:34	12 ✓	20.004
hexarotor	5 ✓	8.025
Vehicle Tests	5 ✓	8.025
hexAero	✓	2.346
hexAddFM	✓	1.118
hexGroundContact	✓	1.223
hexMotorModel	✓	1.687
hexAeroCoefficientsModel	✓	0.97
sensors	4 ✓	5.663
Sensor Tests	4 ✓	5.664
ins	✓	1.326
Iteration1	✓	1.326
adc	✓	1.16
Iteration1	✓	1.159
gps	✓	1.089
Iteration1	✓	1.089
sensors	✓	1.681
Iteration1	✓	1.681
environment	3 ✓	4.801
Environment Tests	3 ✓	4.801
Air	✓	1.392
Iteration1	✓	1.392
Earth	✓	2.352
Iteration1	✓	2.352
LocalTerrain	✓	0.666

Iteration1	✅	0.667

Results: 2025-Nov-05 17:59:34

Result Type:	Result Set
Parent:	None
Start Time:	05-Nov-2025 17:59:35
End Time:	05-Nov-2025 17:59:55
Outcome:	Total: 12, Passed: 12

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hexarotor

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2025-Nov-05 17:59:34
Start Time:	05-Nov-2025 17:59:35
End Time:	05-Nov-2025 17:59:43
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:	05-Nov-2025 17:59:35
End Time:	05-Nov-2025 17:59:43
Outcome:	Total: 5, Passed: 5

Test Suite Information

Name: Vehicle Tests

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hexAero

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	05-Nov-2025 17:59:35
End Time:	05-Nov-2025 17:59:37
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
Test Sequence Block:	hexAeroTestHarness/Test Sequence1
Test Sequence Scenario:	Scenario_1
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:	05-Nov-2025 17:59:37
End Time:	05-Nov-2025 17:59:39
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:	2.012
Checksum:	3439874096 3821409884 3279179398 2110088444

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

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hexGroundContact

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	05-Nov-2025 17:59:39
End Time:	05-Nov-2025 17:59:40
Outcome:	Passed

Test Case Information

Name:	hexGroundContact
Type:	Baseline Test

Verify Result

Name
Test Sequence/.../verifyNotMoving:verify(isClose(bodyStatesBus.aircraftPosInNED_m(1),0))
Test Sequence/.../verifyNotMoving:verify(isClose(bodyStatesBus.aircraftPosInNED_m(2),0))
Test Sequence/.../verifyNotMoving:verify(isClose(bodyStatesBus.aircraftPosInNED_m(3),0))
Test Sequence/.../verifyNotMoving:verify(isClose(groundForcesMomentsBus.forcesInBody_N(3), -dryMass_kg * 9.81))
Test Sequence/.../verifyNotMoving:verify(~isVehicleAirborne)
Test Sequence/.../verifyVehicleNotGoingThroughGround:verify(prevActuatorGroundForceZ_N > groundForcesMomentsBus.forcesInBody_N(3))
Test Sequence/.../verifyVehicleIsAirborne:verify(isVehicleAirborne)
Test Sequence/.../verifyVehicleIsAirborne:verify(isClose(groundForcesMomentsBus.forcesInBody_N(1),0))
Test Sequence/.../verifyVehicleIsAirborne:verify(isClose(groundForcesMomentsBus.forcesInBody_N(2),0))
Test Sequence/.../verifyVehicleIsAirborne:verify(isClose(groundForcesMomentsBus.forcesInBody_N(3),0))

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:	3.012
Checksum:	858854144 2895665522 296504693 991567400

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

Back to Report Summary

hexMotorModel

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	05-Nov-2025 17:59:40
End Time:	05-Nov-2025 17:59:42
Outcome:	Passed

Test Case Information

Name:	hexMotorModel
Type:	Baseline Test

Verify Result

Name

Test Sequence1/.../verifyNoSpin:verify(isClose(sum(propulsionBus.rotorAngVel_radps),0))

Test Sequence1/.../verifyNoSpin:verify(isClose(sum(propulsionBus.EngineForcesMomentsBus.forcesInBody_N),0))

Test Sequence1/.../verifyNoSpin:verify(isClose(sum(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm),0))

Test Sequence1/.../verifyControllerArm:verify(isClose(sum(propulsionBus.rotorAngVel_radps)/6, 3473 * rpm2radps))

Test Sequence1/.../verifyControllerArm:verify(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(3) < 0)

Test Sequence1/.../verifyControllerArm:verify(isClose(sum(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(3)), 0))

Test Sequence1/.../verifyOutputNoChange:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(1),maxForce(1
)))

Test Sequence1/.../verifyOutputNoChange:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(2),maxForce(2
)))

Test Sequence1/.../verifyOutputNoChange:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(3),maxForce(3
)))

Test Sequence1/.../verifyOutputNoChange:verify(isClose(maxAngVel_radps,propulsionBus.rotorAngVel_radps(1)))

Test Sequence1/.../verifyMotor1OnlyRunning:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(1) < 0)

Test Sequence1/.../verifyMotor1OnlyRunning:verify(isClose(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(2), 0)
)

Test Sequence1/.../verifyMotor1OnlyRunning:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(3) < 0)

Test Sequence1/.../verifyMotor1OnlyRunning:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(3),maxForc
e(3) / 6))

Test Sequence1/.../verifyMotor2OnlyRunning:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(1) > 0)

Test Sequence1/.../verifyMotor2OnlyRunning:verify(isClose(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(2), 0)
)

Test Sequence1/.../verifyMotor2OnlyRunning:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(3) > 0)

Test Sequence1/.../verifyMotor2OnlyRunning:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(3),maxForc
e(3) / 6))

Test Sequence1/.../verifyMotor3:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(1) > 0)

Test Sequence1/.../verifyMotor3:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(2) > 0)

Test Sequence1/.../verifyMotor3:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(3) < 0)

Test Sequence1/.../verifyMotor3:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(3),maxForce(3) / 6))

Test Sequence1/.../verifyMotor4:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(1) < 0)

Test Sequence1/.../verifyMotor4:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(2) < 0)

Test Sequence1/.../verifyMotor4:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(3) > 0)

Test Sequence1/.../verifyMotor4:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(3),maxForce(3) / 6))

Test Sequence1/.../verifyMotor5:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(1) < 0)

Test Sequence1/.../verifyMotor5:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(2) > 0)

Test Sequence1/.../verifyMotor5:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(3) > 0)

Test Sequence1/.../verifyMotor5:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(3),maxForce(3) / 6))

- Test Sequence1/.../verifyMotor6:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(1) > 0)
- Test Sequence1/.../verifyMotor6:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(2) < 0)
- Test Sequence1/.../verifyMotor6:verify(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(3) < 0)
- Test Sequence1/.../verifyMotor6:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(3),maxForce(3) / 6))
- Test Sequence1/.../verifyOutputZero:verify(isClose(sum(propulsionBus.rotorAngVel_radps),0))
- Test Sequence1/.../verifyOutputZero:verify(isClose(sum(propulsionBus.EngineForcesMomentsBus.forcesInBody_N),0))
- Test Sequence1/.../verifyOutputZero:verify(isClose(sum(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm),0))
- Test Sequence1/.../verifyFailure:verify(isClose(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(1), 0))
- Test Sequence1/.../verifyFailure:verify(isClose(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(2), 0))
- Test Sequence1/.../verifyFailure:verify(isClose(propulsionBus.EngineForcesMomentsBus.momentsInBody_Nm(3), 0))
- Test Sequence1/.../verifyFailure:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(1), 0))
- Test Sequence1/.../verifyFailure:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(2), 0))
- Test Sequence1/.../verifyFailure:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(3), 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 Sequence1
Test Sequence Scenario:	Hexarotor
Start Time:	0
Stop Time:	11.048
Checksum:	3579365320 1526566155 1549829431 482137587

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

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hexAeroCoefficientsModel

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	05-Nov-2025 17:59:42
End Time:	05-Nov-2025 17:59:43
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.

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sensors

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2025-Nov-05 17:59:34
Start Time:	05-Nov-2025 17:59:43
End Time:	05-Nov-2025 17:59:49
Outcome:	Total: 4, Passed: 4

Test Suite Information

Name:	sensors

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Sensor Tests

Test Result Information

Result Type:	Test Suite Result
Parent:	sensors
Start Time:	05-Nov-2025 17:59:43
End Time:	05-Nov-2025 17:59:49
Outcome:	Total: 4, Passed: 4

Test Suite Information

Name:	Sensor Tests

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ins

Test Result Information

Result Type:	Test Case Result
Parent:	Sensor Tests
Start Time:	05-Nov-2025 17:59:43
End Time:	05-Nov-2025 17:59:45
Outcome:	Passed

Test Case Information

Name: ins
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: ins
Start Time: 05-Nov-2025 17:59:43
End Time: 05-Nov-2025 17:59:45
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:	677169283 1337975363 3752592478 3123190075

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

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adc

Test Result Information

Result Type:	Test Case Result
Parent:	Sensor Tests
Start Time:	05-Nov-2025 17:59:45

End Time: 05-Nov-2025 17:59:46
Outcome: Passed

Test Case Information

Name: adc
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: adc
Start Time: 05-Nov-2025 17:59:45
End Time: 05-Nov-2025 17:59:46
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

Simulation Logs:
Warning issued while simulating Model block 'adcTestHarness/adc'.

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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:	05-Nov-2025 17:59:46
End Time:	05-Nov-2025 17:59:47
Outcome:	Passed

Test Case Information

Name:	gps
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	gps
Start Time:	05-Nov-2025 17:59:46
End Time:	05-Nov-2025 17:59:47
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:	1297848071 2767701485 3129243928 1222317831

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:	05-Nov-2025 17:59:47
End Time:	05-Nov-2025 17:59:49
Outcome:	Passed

Test Case Information

Name:	sensors
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	sensors
Start Time:	05-Nov-2025 17:59:47
End Time:	05-Nov-2025 17:59:49
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:	0.0040000000000000001
Checksum:	4169571192 4003188594 2042780750 734533801

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

'SensorsBus' is defined, but is never used in the Test Sequence block. Delete this object.

Warning issued while simulating Model block 'sensorsTestHarness/sensors'.

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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-Nov-05 17:59:34
Start Time:	05-Nov-2025 17:59:49
End Time:	05-Nov-2025 17:59:54
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:	05-Nov-2025 17:59:49
End Time:	05-Nov-2025 17:59:54
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: 05-Nov-2025 17:59:49
End Time: 05-Nov-2025 17:59:51
Outcome: Passed

Test Case Information

Name: Air
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: Air
Start Time: 05-Nov-2025 17:59:49
End Time: 05-Nov-2025 17:59:51
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:	05-Nov-2025 17:59:51
End Time:	05-Nov-2025 17:59:53
Outcome:	Passed

Test Case Information

Name:	Earth
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	Earth
Start Time:	05-Nov-2025 17:59:51
End Time:	05-Nov-2025 17:59:53
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:	05-Nov-2025 17:59:53

End Time: 05-Nov-2025 17:59:54
Outcome: Passed

Test Case Information

Name: LocalTerrain
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: LocalTerrain
Start Time: 05-Nov-2025 17:59:53
End Time: 05-Nov-2025 17:59:54
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:	1661112760 514905542 80377983 1575265004

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

'TerrainEnvironmentBus' is defined, but is never used in the Test Sequence block. Delete this object.

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

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