Report Generated by Test Manager

Title: **Branch: 29-testVehicleSIL-optimWIP**
Author: **Previous Commit Hash: f3d9e6e26391d8 add22db338e5232cc2cee41fd0**
Date: **18-Oct-2025 17:10:30**

Test Environment

Platform: PCWIN64
MATLAB: (R2024a)

Summary

Name	Outcome	Duration (Seconds)
Results: 2025-Oct-18 17:07:54	16 ✓	154.217
F16	9 ✓	143.858
Vehicle Tests	9 ✓	143.858
actuators	✓	7.134
Iteration1	✓	7.133
aero	✓	2.056
Iteration1	✓	2.056
ground contact	✓	1.301
inertial dynamics	✓	1.479
Iteration1	✓	1.479
vehicle	✓	7.996
Iteration1	✓	7.996
engine	✓	15.753
addFM	✓	0.87
Iteration1	✓	0.87
gravity	✓	0.805
FullSIL	✓	104.8
sensors	4 ✓	4.692
Sensor Tests	4 ✓	4.691
ins	✓	1.116
Iteration1	✓	1.115
adc	✓	0.969
Iteration1	✓	0.968
gps	✓	0.925
Iteration1	✓	0.924

sensors		1.459
Iteration1		1.46
environment	3	3.819
Environment Tests	3	3.819
Air		0.922
Iteration1		0.922
Earth		2.069
Iteration1		2.068
LocalTerrain		0.682
Iteration1		0.682

Results: 2025-Oct-18 17:07:54

Result Type:	Result Set
Parent:	None
Start Time:	18-Oct-2025 17:07:55
End Time:	18-Oct-2025 17:10:29
Outcome:	Total: 16, Passed: 16

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F16

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2025-Oct-18 17:07:54
Start Time:	18-Oct-2025 17:07:55
End Time:	18-Oct-2025 17:10:19
Outcome:	Total: 9, Passed: 9

Test Suite Information

Name:	F16

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Vehicle Tests

Test Result Information

Result Type:	Test Suite Result
Parent:	F16
Start Time:	18-Oct-2025 17:07:55
End Time:	18-Oct-2025 17:10:19
Outcome:	Total: 9, Passed: 9

Test Suite Information

Name:	Vehicle Tests

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actuators

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	18-Oct-2025 17:07:55
End Time:	18-Oct-2025 17:08:02
Outcome:	Passed

Test Case Information

Name:	actuators
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	actuators
Start Time:	18-Oct-2025 17:07:55
End Time:	18-Oct-2025 17:08:02
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/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.angVel_radps, 0))

Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(1), 0))

Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(2), 0))

Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(3), 0))

Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(1), 0))

Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(2), 0))

Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(3), 0))

Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad,0))

Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad,0))

Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder_rad,0))

Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.angVel_radps, 0))

Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(1), 0))

Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(2), 0))

Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(3), 0))

Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(1), 0))

Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(2), 0))

Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(3), 0))

Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad,0))

Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad,0))

Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder_rad,0))

Test Sequence/.../verifyAileronRate:verify(aileronCmdRate <= aileronDeflRateLimit_degps)

Test Sequence/.../verifyAileronLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad, deg2rad(maxAilDefl_deg)))

Test Sequence/.../verifyNegAileronRate:verify(abs(aileronCmdRate) <= aileronDeflRateLimit_degps)

Test Sequence/.../verifyNegAileronLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad, -deg2rad(maxAilDefl_deg)))

Test Sequence/.../verifyElevatorRate:verify(elevatorCmdRate <= elevatorDeflRateLimit_degps)

Test Sequence/.../verifyElevatorLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad, deg2rad(maxElevatorDefl_deg)))

Test Sequence/.../verifyNegElevatorRate:verify(abs(elevatorCmdRate) <= elevatorDeflRateLimit_degps)

Test Sequence/.../verifyNegElevatorLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad, -deg2rad(maxElevatorDefl_deg)))

Test Sequence/.../verifyRudderRate:verify(rudderCmdRate <= rudderDeflRateLimit_degps)

Test Sequence/.../verifyRudderMax:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder_rad, deg2rad(maxRudderDefl_deg)))

Test Sequence/.../verifyNegRudderRate:verify(abs(rudderCmdRate) <= rudderDeflRateLimit_degps)

Test Sequence/.../verifyNegRudderMax:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder_rad, -deg2rad(maxRudderDefl_deg)))

Simulation

System Under Test Information

Model:	actuators
Harness:	actuatorsTestHarness
Harness Owner:	actuators
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	actuatorsTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	19.024000000000001
Checksum:	1217362366 3671309518 923207239 1239864682

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

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aero

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests

Start Time: 18-Oct-2025 17:08:02
End Time: 18-Oct-2025 17:08:04
Outcome: Passed

Test Case Information

Name: aero
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: aero
Start Time: 18-Oct-2025 17:08:02
End Time: 18-Oct-2025 17:08:04
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/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.forcesInBody_N(1),0))
Test Sequence1/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.forcesInBody_N(2),0))
Test Sequence1/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.forcesInBody_N(3),0))
Test Sequence1/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(1),0))
Test Sequence1/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(2),0))

- Test Sequence1/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(3),0))
- Test Sequence1/.../verifyZeroOutputs:verify(isClose(airDataBus.airspeedInBody_mps(1),0))
- Test Sequence1/.../verifyZeroOutputs:verify(isClose(airDataBus.airspeedInBody_mps(2),0))
- Test Sequence1/.../verifyZeroOutputs:verify(isClose(airDataBus.airspeedInBody_mps(3),0))
- Test Sequence1/.../verifyZeroOutputs:verify(isClose(airDataBus.alpha_rad,0))
- Test Sequence1/.../verifyZeroOutputs:verify(isClose(airDataBus.beta_rad,0))
- Test Sequence1/.../verifyAirspeed:verify(aeroForcesMomentsBus.forcesInBody_N(1) < 0)
- Test Sequence1/.../verifyAirspeed:verify(isClose(aeroForcesMomentsBus.forcesInBody_N(2),0))
- Test Sequence1/.../verifyAirspeed:verify(aeroForcesMomentsBus.forcesInBody_N(3) < -20500 * lbf2N)
- Test Sequence1/.../verifyAirspeed:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(1),0))
- Test Sequence1/.../verifyAirspeed:verify(aeroForcesMomentsBus.momentsInBody_Nm(2) < 0)
- Test Sequence1/.../verifyAirspeed:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(3),0))
- Test Sequence1/.../verifyAirspeed:verify(isClose(airDataBus.airspeedInBody_mps(2),0))
- Test Sequence1/.../verifyAirspeed:verify(isClose(airDataBus.airspeedInBody_mps(3),0))
- Test Sequence1/.../verifyAirspeed:verify(isClose(airDataBus.alpha_rad,0))
- Test Sequence1/.../verifyAirspeed:verify(isClose(airDataBus.beta_rad,0))
- Test Sequence1/.../verifyElevatorDeflection:verify(isClose(aeroForcesMomentsBus.forcesInBody_N(2),0))
- Test Sequence1/.../verifyElevatorDeflection:verify(aeroForcesMomentsBus.forcesInBody_N(3) > cruiseZForce)
- Test Sequence1/.../verifyElevatorDeflection:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(1),0))
- Test Sequence1/.../verifyElevatorDeflection:verify(aeroForcesMomentsBus.momentsInBody_Nm(2) > cruiseYMoment)
- Test Sequence1/.../verifyElevatorDeflection:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(3),0))
- Test Sequence1/.../verifyElevatorDeflection:verify(isClose(airDataBus.airspeedInBody_mps(2),0))
- Test Sequence1/.../verifyElevatorDeflection:verify(isClose(airDataBus.airspeedInBody_mps(3),0))
- Test Sequence1/.../verifyElevatorDeflection:verify(isClose(airDataBus.alpha_rad,0))
- Test Sequence1/.../verifyElevatorDeflection:verify(isClose(airDataBus.beta_rad,0))
- Test Sequence1/.../verifyRudder:verify(aeroForcesMomentsBus.forcesInBody_N(2) > 0)
- Test Sequence1/.../verifyRudder:verify(aeroForcesMomentsBus.forcesInBody_N(3) < 0)
- Test Sequence1/.../verifyRudder:verify(aeroForcesMomentsBus.momentsInBody_Nm(1) > 0)
- Test Sequence1/.../verifyRudder:verify(aeroForcesMomentsBus.momentsInBody_Nm(2) < 0)
- Test Sequence1/.../verifyRudder:verify(aeroForcesMomentsBus.momentsInBody_Nm(3) < 0)
- Test Sequence1/.../verifyRudder:verify(isClose(airDataBus.airspeedInBody_mps(2),0))
- Test Sequence1/.../verifyRudder:verify(isClose(airDataBus.airspeedInBody_mps(3),0))
- Test Sequence1/.../verifyRudder:verify(isClose(airDataBus.alpha_rad,0))
- Test Sequence1/.../verifyRudder:verify(isClose(airDataBus.beta_rad,0))
- Test Sequence1/.../verifyAileron:verify(aeroForcesMomentsBus.momentsInBody_Nm(1) < 0)
- Test Sequence1/.../verifyAileron:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(2),cruiseYMoment))
- Test Sequence1/.../verifyAileron:verify(aeroForcesMomentsBus.momentsInBody_Nm(3) < 0)

Test Sequence1/.../verifyAileron:verify(isClose(airDataBus.alpha_rad,0))

Test Sequence1/.../verifyAileron:verify(isClose(airDataBus.beta_rad,0))

Simulation

System Under Test Information

Model:	aero
Harness:	aeroTestHarness
Harness Owner:	aero
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	aeroTestHarness/Test Sequence1
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	22
Checksum:	2854743191 1458617529 2284628752 3323507110

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

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ground contact

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	18-Oct-2025 17:08:05
End Time:	18-Oct-2025 17:08:06
Outcome:	Passed

Test Case Information

Name: ground contact
Type: Baseline Test

Verify Result

Name
Test Sequence1/.../verifyInitialization:verify(isVehicleAirborne == 0)
Test Sequence1/.../verifyInitialization:verify(groundCollision == 0)
Test Sequence1/.../verifyInitialization:verify(isClose(groundForcesMomentsBus.forcesInBody_N(1),0))
Test Sequence1/.../verifyInitialization:verify(isClose(groundForcesMomentsBus.forcesInBody_N(2),0))
Test Sequence1/.../verifyInitialization:verify(isClose(groundForcesMomentsBus.forcesInBody_N(3),0))
Test Sequence1/.../verifyInitialization:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(1), 0))
Test Sequence1/.../verifyInitialization:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(2), 0))
Test Sequence1/.../verifyInitialization:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(3), 0))
Test Sequence1/.../verifyStationary:verify(isVehicleAirborne == 0)
Test Sequence1/.../verifyStationary:verify(groundCollision == 0)
Test Sequence1/.../verifyStationary:verify(isClose(groundForcesMomentsBus.forcesInBody_N(1), 0))
Test Sequence1/.../verifyStationary:verify(isClose(groundForcesMomentsBus.forcesInBody_N(2), 0))
Test Sequence1/.../verifyStationary:verify(isClose(groundForcesMomentsBus.forcesInBody_N(3), -9298.6 * 9.81))
Test Sequence1/.../verifyStationary:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(1), 0))
Test Sequence1/.../verifyStationary:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(2), 0))
Test Sequence1/.../verifyStationary:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(3), 0))
Test Sequence1/.../verifyFastTaxi:verify(isVehicleAirborne == 0)
Test Sequence1/.../verifyFastTaxi:verify(groundCollision == 0)
Test Sequence1/.../verifyFastTaxi:verify(isClose(groundForcesMomentsBus.forcesInBody_N(1), 0))
Test Sequence1/.../verifyFastTaxi:verify(isClose(groundForcesMomentsBus.forcesInBody_N(2), 0))
Test Sequence1/.../verifyFastTaxi:verify(isClose(groundForcesMomentsBus.forcesInBody_N(3), -9298.6 * 9.81 + 20000))
Test Sequence1/.../verifyFastTaxi:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(1),0))
Test Sequence1/.../verifyFastTaxi:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(2),0))
Test Sequence1/.../verifyFastTaxi:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(3),0))
Test Sequence1/.../verifyFastTaxi:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(1), 0))
Test Sequence1/.../verifyFastTaxi:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(2), 0))
Test Sequence1/.../verifyFastTaxi:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(3), 0))
Test Sequence1/.../verifyRotate:verify(isVehicleAirborne == 0)
Test Sequence1/.../verifyRotate:verify(groundCollision == 0)
Test Sequence1/.../verifyRotate:verify(isClose(groundForcesMomentsBus.forcesInBody_N(1), 0))

Test Sequence1/.../verifyRotate:verify(isClose(groundForcesMomentsBus.forcesInBody_N(2), 0))	
Test Sequence1/.../verifyRotate:verify(isClose(groundForcesMomentsBus.forcesInBody_N(3), -9298.6 * 9.81 + 20000))	
Test Sequence1/.../verifyRotate:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(1),0))	
Test Sequence1/.../verifyRotate:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(2),0))	
Test Sequence1/.../verifyRotate:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(3),0))	
Test Sequence1/.../verifyRotate:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(1), 0))	
Test Sequence1/.../verifyRotate:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(2), 0))	
Test Sequence1/.../verifyRotate:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(3), 0))	
Test Sequence1/.../verifyTakeoff:verify(isVehicleAirborne == 1)	
Test Sequence1/.../verifyTakeoff:verify(groundCollision == 0)	
Test Sequence1/.../verifyTakeoff:verify(isClose(groundForcesMomentsBus.forcesInBody_N(1), 0))	
Test Sequence1/.../verifyTakeoff:verify(isClose(groundForcesMomentsBus.forcesInBody_N(2), 0))	
Test Sequence1/.../verifyTakeoff:verify(isClose(groundForcesMomentsBus.forcesInBody_N(3), 0))	
Test Sequence1/.../verifyTakeoff:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(1),0))	
Test Sequence1/.../verifyTakeoff:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(2),0))	
Test Sequence1/.../verifyTakeoff:verify(isClose(groundForcesMomentsBus.momentsInBody_Nm(3),0))	
Test Sequence1/.../verifyTakeoff:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(1), 0))	
Test Sequence1/.../verifyTakeoff:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(2), 0))	
Test Sequence1/.../verifyTakeoff:verify(isClose(weightForcesMomentsBus.momentsInBody_Nm(3), 0))	

Simulation

System Under Test Information

Model:	groundContact
Harness:	groundContactTestHarness
Harness Owner:	groundContact
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	groundContactTestHarness/Test Sequence1
Test Sequence Scenario:	Scenario_2
Start Time:	0
Stop Time:	2.028
Checksum:	1244405978 4079976263 897553408 2782662889

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

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inertial dynamics

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	18-Oct-2025 17:08:06
End Time:	18-Oct-2025 17:08:08
Outcome:	Passed

Test Case Information

Name:	inertial dynamics
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	inertial dynamics
Start Time:	18-Oct-2025 17:08:06
End Time:	18-Oct-2025 17:08:08
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/.../Test1:verify(isClose(bodyStatesBus.aircraftPosInNED_m(1), 0.5*interval_time^2*aircraftForcesInNED_N(1)/aircraftMass + aircraftInitialPosInNED_m(1)))
Test Sequence1/.../Test1:verify(isClose(bodyStatesBus.aircraftVelInBody_mps(1), interval_time*aircraftForcesMomentsBus_forcesInBody_N(1)/aircraftMass + aircraftInitialVelInBody_mps(1)))
Test Sequence1/.../Test1:verify(isClose(bodyStatesBus.aircraftAccelInBody_mps2(1),aircraftForcesMomentsBus_forcesInBody_N(1)/aircraftMass))

Simulation

System Under Test Information

Model:	inertialDynamics
Harness:	inertialDynamicsTestHarness
Harness Owner:	inertialDynamics
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	inertialDynamicsTestHarness/Test Sequence1
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	1.008
Checksum:	2740628208 4264647383 940722363 2610557463

Simulation Logs:

'aircraftInitialEuler_rad' 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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vehicle

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	18-Oct-2025 17:08:08
End Time:	18-Oct-2025 17:08:16
Outcome:	Passed

Test Case Information

Name:	vehicle
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result

Parent: vehicle
Start Time: 18-Oct-2025 17:08:08
End Time: 18-Oct-2025 17:08:16
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/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(1), 0))
Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(2), 0))
Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(3), 0))
Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(1),0))
Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(2),0))
Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(3),0))
Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(1), 0))
Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(2), 0))
Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(3), 0))
Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(1),0))
Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(2),0))
Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(3),0))
Test Sequence/.../verifyThrottle:verify(vehicleBus.AircraftForcesMoments.forcesInBody_N(1) > 0)
Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(2), 0))
Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(3), 0))
Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(1),0))
Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(2),0))
Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(3),0))
Test Sequence/.../verifyPitchIntoGround:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(2), 0))

- Test Sequence/.../verifyPitchIntoGround:verify(isClose(vehicleBus.BodyStates.aircraftEulerAngles_rad(2) , 0))
- Test Sequence/.../verifyPitchIntoGround:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(3), 0))
- Test Sequence/.../verifyPitchIntoGround:verify(vehicleBus.AircraftForcesMoments.forcesInBody_N(1) > 0)
- Test Sequence/.../verifyPitchIntoGround:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(2), 0))
- Test Sequence/.../verifydeflectElevator:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(2), 0, 'absTol', 0.01))
- Test Sequence/.../verifydeflectElevator:verify(isClose(vehicleBus.BodyStates.aircraftEulerAngles_rad(2), 0, 'absTol', 0.01))
- Test Sequence/.../verifydeflectElevator:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(3), 0, 'absTol', 0.01))
- Test Sequence/.../verifydeflectElevator:verify(vehicleBus.AircraftForcesMoments.forcesInBody_N(1) > 0)
- Test Sequence/.../verifydeflectElevator:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(2), 0))
- Test Sequence/.../verifyRotate:verify(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(2) > 0)
- Test Sequence/.../verifyRotate:verify(vehicleBus.BodyStates.aircraftEulerAngles_rad(2) > 0)
- Test Sequence/.../verifyRotate:verify(vehicleBus.AircraftForcesMoments.forcesInBody_N(3) < 0)
- Test Sequence/.../verifyRotate:verify(vehicleBus.AircraftForcesMoments.forcesInBody_N(1) > 0)
- Test Sequence/.../verifyRotate:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(2), 0))
- Test Sequence/.../verifyFlying:verify(vehicleBus.BodyStates.aircraftPosInNED_m(3) < 0)
- Test Sequence/.../verifyFlying:verify(vehicleBus.BodyStates.aircraftEulerAngles_rad(2) > 0)
- Test Sequence/.../verifyFlying:verify(vehicleBus.AircraftForcesMoments.forcesInBody_N(1) > 0)
- Test Sequence/.../verifyFlying:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(2), 0))

Simulation

System Under Test Information

Model:	F16
Harness:	F16TestHarness
Harness Owner:	F16
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	F16TestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	86.019999999999996
Checksum:	2184461690 750684721 2704972700 135817865

Test Logs:

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

Back to Report Summary

engine

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	18-Oct-2025 17:08:16
End Time:	18-Oct-2025 17:08:32
Outcome:	Passed

Test Case Information

Name:	engine
Type:	Baseline Test

Verify Result

Name
Test Sequence/.../verifyControllerDisarm:verify(isClose(engineBus.engineForcesMoments.forcesInBody_N(1),0))
Test Sequence/.../verifyThorttle:verify(isClose(thrust_lbf, engineBus.engineForcesMoments.forcesInBody_N(1), 'atol', 1))
Test Sequence/.../verifyMaxThrust:verify(engineBus.engineForcesMoments.forcesInBody_N(1) < 130000)
Test Sequence/.../verifyMaxThrust:verify(isClose(thrust_lbf, engineBus.engineForcesMoments.forcesInBody_N(1), 'atol', 1))
Test Sequence/.../verifyWithAirspeed:verify(isClose(thrust_lbf, engineBus.engineForcesMoments.forcesInBody_N(1), 'atol', 1))
Test Sequence/.../verifyIncreaseAirspeed:verify(isClose(thrust_lbf, engineBus.engineForcesMoments.forcesInBody_N(1), 'atol', 1))
Test Sequence/.../verifyIncreaseAltitude:verify(isClose(thrust_lbf, engineBus.engineForcesMoments.forcesInBody_N(1), 'atol', 1))

Simulation

System Under Test Information

Model:	engineModelF16

Harness:	engineModelF16TestHarness
Harness Owner:	engineModelF16
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	engineModelF16TestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	38.003999999999998
Checksum:	3632656878 226596412 27427538 2773569956

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

Back to Report Summary

addFM

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	18-Oct-2025 17:08:32
End Time:	18-Oct-2025 17:08:33
Outcome:	Passed

Test Case Information

Name:	addFM
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	addFM
Start Time:	18-Oct-2025 17:08:32
End Time:	18-Oct-2025 17:08:33
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/.../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)))
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)))
Test Sequence1/.../verifyPitchIntoGround:verify(all(isClose(aircraftForcesMomentsBus.forcesInBody_N, aeroForcesMomentsBus.forcesInBody_N + engineForcesMomentsBus.forcesInBody_N + groundForcesMomentsBus.forcesInBody_N + weightForcesMomentsBus.forcesInBody_N)))
Test Sequence1/.../verifyPitchIntoGround:verify(isClose(aircraftForcesMomentsBus.momentsInBody_Nm(1), 0))
Test Sequence1/.../verifyPitchIntoGround:verify(isClose(aircraftForcesMomentsBus.momentsInBody_Nm(2), engineForcesMomentsBus.momentsInBody_Nm(2) + aeroForcesMomentsBus.momentsInBody_Nm(2) + weightForcesMomentsBus.momentsInBody_Nm(2)))

Test Sequence1/.../verifyPitchIntoGround:verify(isClose(aircraftForcesMomentsBus.momentsInBody_Nm(3), engineForcesMomentsBus.momentsInBody_Nm(3) + aeroForcesMomentsBus.momentsInBody_Nm(3) + weightForcesMomentsBus.momentsInBody_Nm(3)))

Simulation

System Under Test Information

Model:	addFM
Harness:	addFMTestHarness
Harness Owner:	addFM
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	addFMTestHarness/Test Sequence1
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	3.016
Checksum:	2405791290 3021241631 2400769033 306058281

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

Back to Report Summary

gravity

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	18-Oct-2025 17:08:33
End Time:	18-Oct-2025 17:08:34

Outcome: Passed

Test Case Information

Name: gravity
Type: Baseline Test

Verify Result

Name
Test Sequence1/.../Test1:verify(isClose(weightForcesMoments.forcesInBody_N(1), 0))
Test Sequence1/.../Test1:verify(isClose(weightForcesMoments.forcesInBody_N(2), 0))
Test Sequence1/.../Test1:verify(isClose(weightForcesMoments.forcesInBody_N(3), weight_N))
Test Sequence1/.../Test1:verify(isClose(sum(weightForcesMoments.momentsInBody_Nm(1:3)), 0))
Test Sequence1/.../Test2:verify(isClose(weightForcesMoments.forcesInBody_N(1), -weight_N * sin(pitch_rad)))
Test Sequence1/.../Test2:verify(isClose(weightForcesMoments.forcesInBody_N(2), 0))
Test Sequence1/.../Test2:verify(isClose(weightForcesMoments.forcesInBody_N(3), weight_N * cos(pitch_rad)))
Test Sequence1/.../Test2:verify(isClose(sum(weightForcesMoments.momentsInBody_Nm(1:3)), 0))
Test Sequence1/.../Test3:verify(isClose(weightForcesMoments.forcesInBody_N(1), -weight_N * sin(pitch_rad)))
Test Sequence1/.../Test3:verify(isClose(weightForcesMoments.forcesInBody_N(2), weight_N * sin(roll_rad) * cos(pitch_rad)))
Test Sequence1/.../Test3:verify(isClose(weightForcesMoments.forcesInBody_N(3), weight_N * cos(roll_rad) * cos(pitch_rad)))
Test Sequence1/.../Test3:verify(isClose(sum(weightForcesMoments.momentsInBody_Nm(1:3)), 0))

Simulation

System Under Test Information

Model:	gravity
Harness:	gravityTestHarness
Harness Owner:	gravity
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	gravityTestHarness/Test Sequence1
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	0.028000000000000001
Checksum:	371801570 4075467097 1945074898 1201465379

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

Back to Report Summary

FullSIL

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	18-Oct-2025 17:08:34
End Time:	18-Oct-2025 17:10:19
Outcome:	Passed

Test Case Information

Name:	FullSIL
Type:	Baseline Test

Simulation

System Under Test Information

Model:	VehiclePlant
Harness:	VehiclePlantTestHarness
Harness Owner:	VehiclePlant
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Start Time:	0
Stop Time:	280.00400000000002
Checksum:	1417193510 12782118 1430295359 339169230

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

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

Warning issued while simulating Model block 'VehiclePlantTestHarness/VehiclePlant'.

Back to Report Summary

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-Oct-18 17:07:54
Start Time:	18-Oct-2025 17:10:19
End Time:	18-Oct-2025 17:10:24
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: 18-Oct-2025 17:10:19
End Time: 18-Oct-2025 17:10:24
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: 18-Oct-2025 17:10:19
End Time: 18-Oct-2025 17:10:20
Outcome: Passed

Test Case Information

Name: ins
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result

Parent: ins
Start Time: 18-Oct-2025 17:10:19
End Time: 18-Oct-2025 17:10:20
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.

Back to Report Summary

adc

Test Result Information

Result Type:	Test Case Result
Parent:	Sensor Tests
Start Time:	18-Oct-2025 17:10:20
End Time:	18-Oct-2025 17:10:21
Outcome:	Passed

Test Case Information

Name:	adc

Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: adc
Start Time: 18-Oct-2025 17:10:20
End Time: 18-Oct-2025 17:10:21
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:	1104384803 2190219993 1982550312 115166805

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

Back to Report Summary

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

Back to Report Summary

gps

Test Result Information

Result Type:	Test Case Result
Parent:	Sensor Tests
Start Time:	18-Oct-2025 17:10:21
End Time:	18-Oct-2025 17:10:22
Outcome:	Passed

Test Case Information

Name:	gps
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	gps
Start Time:	18-Oct-2025 17:10:21
End Time:	18-Oct-2025 17:10:22
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.

Back to Report Summary

sensors

Test Result Information

Result Type:	Test Case Result
Parent:	Sensor Tests
Start Time:	18-Oct-2025 17:10:22
End Time:	18-Oct-2025 17:10:24
Outcome:	Passed

Test Case Information

Name:	sensors
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	sensors
Start Time:	18-Oct-2025 17:10:22
End Time:	18-Oct-2025 17:10:24
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:	2546553817 1139126873 1496895507 1797210819

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'.

Back to Report Summary

Test Logs:

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

Back to Report Summary

environment

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2025-Oct-18 17:07:54
Start Time:	18-Oct-2025 17:10:24
End Time:	18-Oct-2025 17:10:28
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:	18-Oct-2025 17:10:24
End Time:	18-Oct-2025 17:10:28
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:	18-Oct-2025 17:10:24
End Time:	18-Oct-2025 17:10:25
Outcome:	Passed

Test Case Information

Name:	Air
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	Air
Start Time:	18-Oct-2025 17:10:24
End Time:	18-Oct-2025 17:10:25
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:	18-Oct-2025 17:10:25
End Time:	18-Oct-2025 17:10:27
Outcome:	Passed

Test Case Information

Name:	Earth
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	Earth
Start Time:	18-Oct-2025 17:10:25
End Time:	18-Oct-2025 17:10:27
Outcome:	Passed

Test Case Information

Name:	Iteration1
Type:	Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

Name
Test 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.

Back to Report Summary

LocalTerrain

Test Result Information

Result Type:	Test Case Result
Parent:	Environment Tests
Start Time:	18-Oct-2025 17:10:27
End Time:	18-Oct-2025 17:10:28
Outcome:	Passed

Test Case Information

Name: LocalTerrain
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: LocalTerrain
Start Time: 18-Oct-2025 17:10:27
End Time: 18-Oct-2025 17:10:28
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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