Report Generated by Test Manager

Title: **Branch: 28-hexarotor-UTs-optimWIP**
Author: **Previous Commit Hash: d7c1ee4dfb8fa1 6e96b3839df32da19cfdb60ef1**
Date: **27-Oct-2025 17:39:19**

Test Environment

Platform: PCWIN64
MATLAB: (R2024a)

Summary

Name	Outcome	Duration (Seconds)
Results: 2025-Oct-27 17:33:07	16 ✓	369.084
F16	9 ✓	358.418
Vehicle Tests	9 ✓	358.417
actuators	✓	3.485
Iteration1	✓	3.486
aero	✓	2.296
Iteration1	✓	2.297
ground contact	✓	3.864
inertial dynamics	✓	3.229
Iteration1	✓	3.229
vehicle	✓	24.974
Iteration1	✓	24.974
engine	✓	64.197
addFM	✓	1.669
Iteration1	✓	1.669
gravity	✓	1.695
FullSIL	✓	249.687
sensors	4 ✓	4.92
Sensor Tests	4 ✓	4.92
ins	✓	1.153
Iteration1	✓	1.154
adc	✓	1.026
Iteration1	✓	1.027
gps	✓	0.969
Iteration1	✓	0.968

sensors		1.546
Iteration1		1.547
environment	3	3.908
Environment Tests	3	3.908
Air		0.954
Iteration1		0.953
Earth		2.121
Iteration1		2.121
LocalTerrain		0.689
Iteration1		0.689

Results: 2025-Oct-27 17:33:07

Result Type:	Result Set
Parent:	None
Start Time:	27-Oct-2025 17:33:09
End Time:	27-Oct-2025 17:39:18
Outcome:	Total: 16, Passed: 16

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F16

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2025-Oct-27 17:33:07
Start Time:	27-Oct-2025 17:33:09
End Time:	27-Oct-2025 17:39:07
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:	27-Oct-2025 17:33:09
End Time:	27-Oct-2025 17:39:07
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:	27-Oct-2025 17:33:09
End Time:	27-Oct-2025 17:33:12
Outcome:	Passed

Test Case Information

Name:	actuators
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	actuators
Start Time:	27-Oct-2025 17:33:09
End Time:	27-Oct-2025 17:33:12
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.PropulsionBus.angVel_radps, 0))

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

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

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

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

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

Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.PropulsionBus.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.PropulsionBus.angVel_radps, 0))

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

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

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

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

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

Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.PropulsionBus.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:	1035197211 3367557082 1635020878 828644898

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:	27-Oct-2025 17:33:13
End Time:	27-Oct-2025 17:33:15
Outcome:	Passed

Test Case Information

Name:	aero
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	aero
Start Time:	27-Oct-2025 17:33:13
End Time:	27-Oct-2025 17:33:15
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:	1204314850 3911341573 15874598 4021657899

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:	27-Oct-2025 17:33:16
End Time:	27-Oct-2025 17:33:19
Outcome:	Passed

Test Case Information

Name:	ground contact
Type:	Baseline Test

Verify Result

Name
Test Sequence1/.../verifyInitialization:verify(isVehicleAirborne == 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(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(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(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(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:	2163949293 4244657479 1823144053 1716716951

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

Back to Report Summary

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:	27-Oct-2025 17:33:20
End Time:	27-Oct-2025 17:33:23
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: 27-Oct-2025 17:33:20
End Time: 27-Oct-2025 17:33:23
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.

Back to Report Summary

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:	27-Oct-2025 17:33:24
End Time:	27-Oct-2025 17:33:49
Outcome:	Passed

Test Case Information

Name:	vehicle

Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: vehicle
Start Time: 27-Oct-2025 17:33:24
End Time: 27-Oct-2025 17:33:49
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:	2309280954 3496055891 1565117001 3225065572

Simulation Logs:
The input bus to block 'actuators/Bus Creator1' does not match the bus specified by the bus object 'ActuatorBus' on the block dialog : Signal 'EngineBus' does not match the name 'ActuatorBus.PropulsionBus' of the corresponding bus element in the bus object. To disable this diagnostic, set the Configuration Parameters > Diagnostics > Connectivity > 'Element name mismatch' option to 'None'.

The input bus to block 'actuators/actuatorBus' does not match the bus specified by the bus object 'ActuatorBus' on the block dialog : Signal 'EngineBus' does not match the name 'ActuatorBus.PropulsionBus' of the corresponding bus element in the bus object. To disable this diagnostic, set the Configuration Parameters > Diagnostics > Connectivity > 'Element name mismatch' option to 'None'.

The input bus to block 'F16/Bus Creator' does not match the bus specified by the bus object 'VehicleBus' on the block dialog : Signal 'AirData' does not match the name 'VehicleBus.AirDataBus' of the corresponding bus element in the bus object. To disable this diagnostic, set the Configuration Parameters > Diagnostics > Connectivity > 'Element name mismatch' option to 'None'.

The input bus to block 'F16/VehicleBus' does not match the bus specified by the bus object 'VehicleBus' on the block dialog : Signal 'AirData' does not match the name 'VehicleBus.AirDataBus' of the corresponding bus element in the bus object. To disable this diagnostic, set the Configuration Parameters > Diagnostics > Connectivity > 'Element name mismatch' option to 'None'.

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Test Logs:

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

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engine

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	27-Oct-2025 17:33:50
End Time:	27-Oct-2025 17:34:54
Outcome:	Passed

Test Case Information

Name:	engine
Type:	Baseline Test

Verify Result

Name
Test Sequence/.../verifyControllerDisarm:verify(isClose(propulsionBus.engineForcesMoments.forcesInBody_N(1),0))
Test Sequence/.../verifyThorttle:verify(isClose(thrust_lbf, propulsionBus.engineForcesMoments.forcesInBody_N(1), 'atol', 1))
Test Sequence/.../verifyMaxThrust:verify(propulsionBus.engineForcesMoments.forcesInBody_N(1) < 130000)
Test Sequence/.../verifyMaxThrust:verify(isClose(thrust_lbf, propulsionBus.engineForcesMoments.forcesInBody_N(1), 'atol', 1))
Test Sequence/.../verifyWithAirspeed:verify(isClose(thrust_lbf, propulsionBus.engineForcesMoments.forcesInBody_N(1), 'atol', 1))
Test Sequence/.../verifyIncreaseAirspeed:verify(isClose(thrust_lbf, propulsionBus.engineForcesMoments.forcesInBody_N(1), 'atol', 1))
Test Sequence/.../verifyIncreaseAltitude:verify(isClose(thrust_lbf, propulsionBus.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:	1919719264 197051287 2377558008 1774720500

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

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addFM

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	27-Oct-2025 17:34:54
End Time:	27-Oct-2025 17:34:56
Outcome:	Passed

Test Case Information

Name:	addFM

Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: addFM
Start Time: 27-Oct-2025 17:34:54
End Time: 27-Oct-2025 17:34:56
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.

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gravity

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	27-Oct-2025 17:34:56
End Time:	27-Oct-2025 17:34:57
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.

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FullSIL

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	27-Oct-2025 17:34:58
End Time:	27-Oct-2025 17:39:07
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
Test Sequence Block:	VehiclePlantTestHarness/Test Sequence
Test Sequence Scenario:	Scenario
Start Time:	0
Stop Time:	280.00400000000002
Checksum:	2884801745 948818018 2325438740 3489502557

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'.

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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-Oct-27 17:33:07
Start Time:	27-Oct-2025 17:39:08
End Time:	27-Oct-2025 17:39:13
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:	27-Oct-2025 17:39:08
End Time:	27-Oct-2025 17:39:13
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:	27-Oct-2025 17:39:08
End Time:	27-Oct-2025 17:39:09
Outcome:	Passed

Test Case Information

Name: ins
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: ins
Start Time: 27-Oct-2025 17:39:08
End Time: 27-Oct-2025 17:39:09
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: 27-Oct-2025 17:39:09
End Time: 27-Oct-2025 17:39:10
Outcome: Passed

Test Case Information

Name: adc
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: adc
Start Time: 27-Oct-2025 17:39:09
End Time: 27-Oct-2025 17:39:10
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'.

Back to Report Summary

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:	27-Oct-2025 17:39:10
End Time:	27-Oct-2025 17:39:11
Outcome:	Passed

Test Case Information

Name:	gps
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	gps
Start Time:	27-Oct-2025 17:39:10
End Time:	27-Oct-2025 17:39:11
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:	27-Oct-2025 17:39:11
End Time:	27-Oct-2025 17:39:13
Outcome:	Passed

Test Case Information

Name:	sensors
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	sensors
Start Time:	27-Oct-2025 17:39:11
End Time:	27-Oct-2025 17:39:13

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:	2006378160 3346823240 510940478 602535750

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.

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environment

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2025-Oct-27 17:33:07
Start Time:	27-Oct-2025 17:39:13
End Time:	27-Oct-2025 17:39:17
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:	27-Oct-2025 17:39:13

End Time: 27-Oct-2025 17:39:17
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: 27-Oct-2025 17:39:13
End Time: 27-Oct-2025 17:39:14
Outcome: Passed

Test Case Information

Name: Air
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: Air
Start Time: 27-Oct-2025 17:39:13
End Time: 27-Oct-2025 17:39:14
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:	27-Oct-2025 17:39:14
End Time:	27-Oct-2025 17:39:16
Outcome:	Passed

Test Case Information

Name:	Earth
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	Earth
Start Time:	27-Oct-2025 17:39:14
End Time:	27-Oct-2025 17:39:16
Outcome:	Passed

Test Case Information

Name:	Iteration1
Type:	Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value

TestSequenceScenario	Scenario_1

Verify Result

Name
Test 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:	27-Oct-2025 17:39:16
End Time:	27-Oct-2025 17:39:17
Outcome:	Passed

Test Case Information

Name:	LocalTerrain
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	LocalTerrain
Start Time:	27-Oct-2025 17:39:16
End Time:	27-Oct-2025 17:39:17
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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