Report Generated by Test Manager

Title:	**Branch: 14-updateReadme-optimWIP**
Author:	**Previous Commit Hash: 878eafd7cb7d5d 624897f7f967728746563dbb82**
Date:	**05-Nov-2025 18:30:10**

Test Environment

Platform:	PCWIN64
MATLAB:	(R2024a)

Summary

Name	Outcome	Duration (Seconds)
Results: 2025-Nov-05 18:27:51	16 ✅	137.368
☐ F16	9 ✅	127.123
☐ Vehicle Tests	9 ✅	127.123
📄 actuators	✅	3.317
⊡ Iteration1	✅	3.318
📄 aero	✅	2.112
⊡ Iteration1	✅	2.112
📄 ground contact	✅	1.404
📄 inertial dynamics	✅	1.484
⊡ Iteration1	✅	1.485
📄 vehicle	✅	8.206
⊡ Iteration1	✅	8.205
📄 engine	✅	15.72
📄 addFM	✅	0.982
⊡ Iteration1	✅	0.982
📄 gravity	✅	0.942
📄 FullSIL	✅	91.346
☐ sensors	4 ✅	4.642
☐ Sensor Tests	4 ✅	4.642
📄 ins	✅	1.086
⊡ Iteration1	✅	1.085
📄 adc	✅	0.966
⊡ Iteration1	✅	0.965
📄 gps	✅	0.915
⊡ Iteration1	✅	0.916

📄 sensors		✅	1.461
📄 Iteration1		✅	1.46
📑 environment	3	✅	3.817
📁 Environment Tests	3	✅	3.816
📄 Air		✅	0.927
📄 Iteration1		✅	0.927
📄 Earth		✅	2.085
📄 Iteration1		✅	2.085
📄 LocalTerrain		✅	0.673
📄 Iteration1		✅	0.673

Results: 2025-Nov-05 18:27:51

Result Type: Result Set
Parent: None
Start Time: 05-Nov-2025 18:27:52
End Time: 05-Nov-2025 18:30:09
Outcome: Total: 16, Passed: 16

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F16

Test Result Information

Result Type: Test File Result
Parent: [Results: 2025-Nov-05 18:27:51](#)
Start Time: 05-Nov-2025 18:27:52
End Time: 05-Nov-2025 18:29:59
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: 05-Nov-2025 18:27:52
End Time: 05-Nov-2025 18:29:59
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: 05-Nov-2025 18:27:52
End Time: 05-Nov-2025 18:27:55
Outcome: Passed

Test Case Information

Name: actuators
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: [actuators](#)
Start Time: 05-Nov-2025 18:27:52
End Time: 05-Nov-2025 18:27:55
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.EngineForcesMomentsBus.forcesInBody_N(1), 0))

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

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

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

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

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

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

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

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

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

✅ Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.PropulsionBus.EngineForcesMomentsBus.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:	1741436608 3976034652 4093123 2493665982

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: 05-Nov-2025 18:27:56
End Time: 05-Nov-2025 18:27:58
Outcome: Passed

Test Case Information

Name: aero
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: [aero](#)
Start Time: 05-Nov-2025 18:27:56
End Time: 05-Nov-2025 18:27:58
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:	837409549 3176385514 1944523610 646612538

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

ground contact

Test Result Information

Result Type:	Test Case Result
Parent:	[Vehicle Tests](#)
Start Time:	05-Nov-2025 18:27:58
End Time:	05-Nov-2025 18:27:59
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:	2530652746 1651292593 2962673844 4144249354

Simulation Logs:
'prevIsVehicleAirborne' 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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inertial dynamics

Test Result Information

Result Type:	Test Case Result
Parent:	Vehicle Tests
Start Time:	05-Nov-2025 18:28:00
End Time:	05-Nov-2025 18:28:01
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:	05-Nov-2025 18:28:00
End Time:	05-Nov-2025 18:28:01
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:	3715353494 1601079150 1606983082 509717701

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:	05-Nov-2025 18:28:01
End Time:	05-Nov-2025 18:28:10
Outcome:	Passed

Test Case Information

Name:	vehicle
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	vehicle
Start Time:	05-Nov-2025 18:28:01
End Time:	05-Nov-2025 18:28:10
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/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(1), 0))
✅ Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(2), 0))
✅ Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(3), 0))
✅ Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(1),0))
✅ Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(2),0))
✅ Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(3),0))
✅ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(1), 0))
✅ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(2), 0))

✅ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(3), 0))

✅ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(1),0))

✅ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(2),0))

✅ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(3),0))

✅ Test Sequence/.../verifyThrottle:verify(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(1) > 0)

✅ Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(2), 0))

✅ Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(3), 0))

✅ Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(1),0))

✅ Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(2),0))

✅ Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(3),0))

✅ Test Sequence/.../verifyPitchIntoGround:verify(isClose(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(2), 0))

✅ Test Sequence/.../verifyPitchIntoGround:verify(isClose(vehicleBus.BodyStatesBus.aircraftEulerAngles_rad(2) , 0))

✅ Test Sequence/.../verifyPitchIntoGround:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(3), 0))

✅ Test Sequence/.../verifyPitchIntoGround:verify(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(1) > 0)

✅ Test Sequence/.../verifyPitchIntoGround:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(2), 0))

✅ Test Sequence/.../verifydeflectElevator:verify(isClose(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(2), 0, 'absTol', 0.01))

✅ Test Sequence/.../verifydeflectElevator:verify(isClose(vehicleBus.BodyStatesBus.aircraftEulerAngles_rad(2), 0, 'absTol', 0.01))

✅ Test Sequence/.../verifydeflectElevator:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(3), 0, 'absTol', 0.01))

✅ Test Sequence/.../verifydeflectElevator:verify(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(1) > 0)

✅ Test Sequence/.../verifydeflectElevator:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(2), 0))

✅ Test Sequence/.../verifyRotate:verify(vehicleBus.AircraftForcesMomentsBus.momentsInBody_Nm(2) > 0)

✅ Test Sequence/.../verifyRotate:verify(vehicleBus.BodyStatesBus.aircraftEulerAngles_rad(2) > 0)

✅ Test Sequence/.../verifyRotate:verify(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(3) < 0)

✅ Test Sequence/.../verifyRotate:verify(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(1) > 0)

✅ Test Sequence/.../verifyRotate:verify(isClose(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(2), 0))

✅ Test Sequence/.../verifyFlying:verify(vehicleBus.BodyStatesBus.aircraftPosInNED_m(3) < 0)

✅ Test Sequence/.../verifyFlying:verify(vehicleBus.BodyStatesBus.aircraftEulerAngles_rad(2) > 0)

✅ Test Sequence/.../verifyFlying:verify(vehicleBus.AircraftForcesMomentsBus.forcesInBody_N(1) > 0)

✅ Test Sequence/.../verifyFlying:verify(isClose(vehicleBus.AircraftForcesMomentsBus.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:	3703207182 4039062082 1165275200 4208378686

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:	05-Nov-2025 18:28:10
End Time:	05-Nov-2025 18:28:26
Outcome:	Passed

Test Case Information

Name:	engine
Type:	Baseline Test

Verify Result

Name
✅ Test Sequence/.../verifyControllerDisarm:verify(isClose(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(1),0))

✅ Test Sequence/.../verifyThorttle:verify(isClose(thrust_lbf, propulsionBus.EngineForcesMomentsBus.forcesInBody_N(1), 'atol', 1))

✅ Test Sequence/.../verifyMaxThrust:verify(propulsionBus.EngineForcesMomentsBus.forcesInBody_N(1) < 130000)

✅ Test Sequence/.../verifyMaxThrust:verify(isClose(thrust_lbf, propulsionBus.EngineForcesMomentsBus.forcesInBody_N(1), 'atol', 1))

✅ Test Sequence/.../verifyWithAirspeed:verify(isClose(thrust_lbf, propulsionBus.EngineForcesMomentsBus.forcesInBody_N(1), 'atol', 1))

✅ Test Sequence/.../verifyIncreaseAirspeed:verify(isClose(thrust_lbf, propulsionBus.EngineForcesMomentsBus.forcesInBody_N(1), 'atol', 1))

✅ Test Sequence/.../verifyIncreaseAltitude:verify(isClose(thrust_lbf, propulsionBus.EngineForcesMomentsBus.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:	2297328474 3214860947 264342721 851494110

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:	05-Nov-2025 18:28:26
End Time:	05-Nov-2025 18:28:27
Outcome:	Passed

Test Case Information

Name:	addFM
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	[addFM](#)
Start Time:	05-Nov-2025 18:28:26
End Time:	05-Nov-2025 18:28:27
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/.../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:	2001973561 3889482857 3364453874 2458995739

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:	05-Nov-2025 18:28:27
End Time:	05-Nov-2025 18:28:28
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:	113927060 1801744929 21668290 1491206286

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:	05-Nov-2025 18:28:28
End Time:	05-Nov-2025 18:29:59
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: 4251960112 2188308552 2700445156 824619752

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-Nov-05 18:27:51](#)
Start Time:	05-Nov-2025 18:29:59
End Time:	05-Nov-2025 18:30:04
Outcome:	Total: 4, Passed: 4

Test Suite Information

Name:	sensors

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Sensor Tests

Test Result Information

Result Type:	Test Suite Result
Parent:	[sensors](#)
Start Time:	05-Nov-2025 18:29:59
End Time:	05-Nov-2025 18:30:04
Outcome:	Total: 4, Passed: 4

Test Suite Information

Name:	Sensor Tests

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ins

Test Result Information

Result Type:	Test Case Result
Parent:	[Sensor Tests](#)
Start Time:	05-Nov-2025 18:29:59
End Time:	05-Nov-2025 18:30:00
Outcome:	Passed

Test Case Information

Name:	ins
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	[ins](#)
Start Time:	05-Nov-2025 18:29:59
End Time:	05-Nov-2025 18:30:00
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.

adc

Test Result Information

Result Type:	Test Case Result
Parent:	[Sensor Tests](#)
Start Time:	05-Nov-2025 18:30:01
End Time:	05-Nov-2025 18:30:02
Outcome:	Passed

Test Case Information

Name:	adc
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	[adc](#)
Start Time:	05-Nov-2025 18:30:01
End Time:	05-Nov-2025 18:30:02
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/.../checkSensors:verify(isClose(ADCSensorBus.BaroSensorBus.altitude_m, 0, 'atol', 20))
✅ Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.BaroSensorBus.pressure_pa, 101325, 'atol', 100))
✅ Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.BaroSensorBus.temperature_degC, 15, 'atol', 2))
✅ Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa, 0, 'atol', 100))
✅ Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.DiffPressureSensorBus.temperature_degC, 15, 'atol', 2))
✅ Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.BaroSensorBus.altitude_m, 3048, 'atol', 20))
✅ Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.BaroSensorBus.pressure_pa, 69681.66, 'atol', 100))
✅ Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.BaroSensorBus.temperature_degC, -4.8, 'atol', 2))
✅ Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa, 0, 'atol', 100))
✅ Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.temperature_degC, -4.8, 'atol', 2))
✅ Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.BaroSensorBus.altitude_m, 6096, 'atol', 20))
✅ Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.BaroSensorBus.pressure_pa, 46563.26, 'atol', 100))
✅ Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.BaroSensorBus.temperature_degC, -24.624, 'atol', 2))
✅ Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa, 0, 'atol', 100))
✅ Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.temperature_degC, -24.624, 'atol', 2))
✅ Test Sequence/.../checkDiffPress:verify(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa > 0)

Simulation

System Under Test Information

Model:	adc
Harness:	adcTestHarness
Harness Owner:	adc
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	adcTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0

| Stop Time: | 0.032000000000000001 |
| Checksum: | 2809421967 1308668717 4053094731 2792199182 |

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

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

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gps

Test Result Information

Result Type:	Test Case Result
Parent:	[Sensor Tests](#)
Start Time:	05-Nov-2025 18:30:02
End Time:	05-Nov-2025 18:30:03
Outcome:	Passed

Test Case Information

| Name: | gps |
| Type: | Baseline Test |

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: gps
Start Time: 05-Nov-2025 18:30:02
End Time: 05-Nov-2025 18:30:03
Outcome: Passed

Test Case Information

Name: Iteration1
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

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

Simulation

System Under Test Information

Model:	gps
Harness:	gpsTestHarness
Harness Owner:	gps
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	gpsTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	0.016
Checksum:	1297848071 2767701485 3129243928 1222317831

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

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sensors

Test Result Information

Result Type:	Test Case Result
Parent:	[Sensor Tests](#)
Start Time:	05-Nov-2025 18:30:03
End Time:	05-Nov-2025 18:30:04
Outcome:	Passed

Test Case Information

Name:	sensors

Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: sensors
Start Time: 05-Nov-2025 18:30:03
End Time: 05-Nov-2025 18:30:04
Outcome: Passed

Test Case Information

Name: Iteration1
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Simulation

System Under Test Information

Model: sensors
Harness: sensorsTestHarness
Harness Owner: sensors
Release: Current
Simulation Mode: normal
Override SIL or PIL Mode: 0
Configuration Set: standardSILConfiguration
Test Sequence Block: sensorsTestHarness/Test Sequence
Test Sequence Scenario: Scenario_1
Start Time: 0
Stop Time: 0.0040000000000000001
Checksum: 4169571192 4003188594 2042780750 734533801

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

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

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

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

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environment

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2025-Nov-05 18:27:51
Start Time:	05-Nov-2025 18:30:04
End Time:	05-Nov-2025 18:30:08
Outcome:	Total: 3, Passed: 3

Test Suite Information

Name:	environment

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Environment Tests

Test Result Information

Result Type:	Test Suite Result
Parent:	[environment](#)
Start Time:	05-Nov-2025 18:30:04
End Time:	05-Nov-2025 18:30:08
Outcome:	Total: 3, Passed: 3

Test Suite Information

Name:	Environment Tests

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Air

Test Result Information

Result Type:	Test Case Result
Parent:	[Environment Tests](#)
Start Time:	05-Nov-2025 18:30:04
End Time:	05-Nov-2025 18:30:05
Outcome:	Passed

Test Case Information

Name:	Air
Type:	Baseline Test

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	[Air](#)
Start Time:	05-Nov-2025 18:30:04

End Time: 05-Nov-2025 18:30:05
Outcome: Passed

Test Case Information

Name: Iteration1
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

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

Simulation

System Under Test Information

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

Start Time:	0
Stop Time:	3.004
Checksum:	2333579960 118194984 3293710571 2811700376

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

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Earth

Test Result Information

Result Type:	Test Case Result
Parent:	[Environment Tests](#)
Start Time:	05-Nov-2025 18:30:05
End Time:	05-Nov-2025 18:30:07
Outcome:	Passed

Test Case Information

| Name: | Earth |
| Type: | Baseline Test |

Iteration1

Test Result Information

Result Type:	Test Iteration Result
Parent:	[Earth](#)
Start Time:	05-Nov-2025 18:30:05
End Time:	05-Nov-2025 18:30:07
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.

LocalTerrain

Test Result Information

Result Type: Test Case Result
Parent: [Environment Tests](#)
Start Time: 05-Nov-2025 18:30:07
End Time: 05-Nov-2025 18:30:08
Outcome: Passed

Test Case Information

Name: LocalTerrain
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: [LocalTerrain](#)
Start Time: 05-Nov-2025 18:30:07
End Time: 05-Nov-2025 18:30:08
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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