

# Report Generated by Test Manager





















**Title:** Branch: 29-fix-testVehicleSIL-again  
**Author:** Previous Commit Hash: e8eed2a609c23e  
d367523df81a6d7df84635fd93  
**Date:** 19-Oct-2025 12:42:09

## Test Environment

Platform: PCWIN64  
MATLAB: (R2024a)

## Summary

Name	Outcome	Duration (Seconds)
<a href="#">Results: 2025-Oct-19 12:39:00</a>	16 ✓	187.01
 <a href="#">F16</a>	9 ✓	173.581
 <a href="#">Vehicle Tests</a>	9 ✓	173.581
 <a href="#">actuators</a>	✓	8.551
 <a href="#">Iteration1</a>	✓	8.552
 <a href="#">aero</a>	✓	2.6
 <a href="#">Iteration1</a>	✓	2.599
 <a href="#">ground contact</a>	✓	1.653
 <a href="#">inertial dynamics</a>	✓	1.742
 <a href="#">Iteration1</a>	✓	1.742
 <a href="#">vehicle</a>	✓	9.16
 <a href="#">Iteration1</a>	✓	9.159
 <a href="#">engine</a>	✓	19.564
 <a href="#">addFM</a>	✓	1.044
 <a href="#">Iteration1</a>	✓	1.044
 <a href="#">gravity</a>	✓	0.986
 <a href="#">FullSIL</a>	✓	126.541
 <a href="#">sensors</a>	4 ✓	5.715
 <a href="#">Sensor Tests</a>	4 ✓	5.715
 <a href="#">ins</a>	✓	1.342
 <a href="#">Iteration1</a>	✓	1.342
 <a href="#">adc</a>	✓	1.179
 <a href="#">Iteration1</a>	✓	1.179
 <a href="#">gps</a>	✓	1.122
 <a href="#">Iteration1</a>	✓	1.121

 <a href="#">sensors</a>		1.808
 <a href="#">Iteration1</a>		1.807
 <a href="#">environment</a>	3 	4.884
 <a href="#">Environment Tests</a>	3 	4.883
 <a href="#">Air</a>		1.13
 <a href="#">Iteration1</a>		1.129
 <a href="#">Earth</a>		2.685
 <a href="#">Iteration1</a>		2.686
 <a href="#">LocalTerrain</a>		0.878
 <a href="#">Iteration1</a>		0.878

## Results: 2025-Oct-19 12:39:00

Result Type: Result Set  
Parent: None  
Start Time: 19-Oct-2025 12:39:02  
End Time: 19-Oct-2025 12:42:09  
Outcome: Total: 16, Passed: 16

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## F16

### Test Result Information

Result Type: Test File Result  
Parent: [Results: 2025-Oct-19 12:39:00](#)  
Start Time: 19-Oct-2025 12:39:02  
End Time: 19-Oct-2025 12:41:55  
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: 19-Oct-2025 12:39:02  
End Time: 19-Oct-2025 12:41:55  
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: 19-Oct-2025 12:39:02  
End Time: 19-Oct-2025 12:39:10  
Outcome: Passed

Test Case Information

Name: actuators  
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result  
Parent: [actuators](#)  
Start Time: 19-Oct-2025 12:39:02  
End Time: 19-Oct-2025 12:39:10  
Outcome: Passed

Test Case Information

Name: Iteration1  
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

Name
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✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.angVel_radps, 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(1), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(2), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(3), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(1), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(2), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(3), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad,0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad,0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder_rad,0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.angVel_radps, 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(1), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(2), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.forcesInBody_N(3), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(1), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(2), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.EngineBus.engineForcesMoments.momentsInBody_Nm(3), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad,0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad,0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder_rad,0))
✓	Test Sequence/.../verifyAileronRate:verify(aileronCmdRate <= aileronDeflRateLimit_degps)
✓	Test Sequence/.../verifyAileronLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad, deg2rad(maxAilDefl_deg)))
✓	Test Sequence/.../verifyNegAileronRate:verify(abs(aileronCmdRate) <= aileronDeflRateLimit_degps)
✓	Test Sequence/.../verifyNegAileronLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad, -deg2rad(maxAilDefl_deg)))
✓	Test Sequence/.../verifyElevatorRate:verify(elevatorCmdRate <= elevatorDeflRateLimit_degps)
✓	Test Sequence/.../verifyElevatorLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad, deg2rad(maxElevatorDefl_deg)))
✓	Test Sequence/.../verifyNegElevatorRate:verify(abs(elevatorCmdRate) <= elevatorDeflRateLimit_degps)
✓	Test Sequence/.../verifyNegElevatorLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad, -deg2rad(maxElevatorDefl_deg)))
✓	Test Sequence/.../verifyRudderRate:verify(rudderCmdRate <= rudderDeflRateLimit_degps)

- ✓ Test Sequence/.../verifyRudderMax:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder\_rad, deg2rad(maxRudderDefl\_deg)))
- ✓ Test Sequence/.../verifyNegRudderRate:verify(abs(rudderCmdRate) <= rudderDeflRateLimit\_degps)
- ✓ Test Sequence/.../verifyNegRudderMax:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder\_rad, -deg2rad(maxRudderDefl\_deg)))

## Simulation

### System Under Test Information

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

### Test Logs:

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

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## aero

### Test Result Information

Result Type: Test Case Result  
 Parent: [Vehicle Tests](#)

Start Time: 19-Oct-2025 12:39:11  
End Time: 19-Oct-2025 12:39:13  
Outcome: Passed

### Test Case Information

Name: aero  
Type: Baseline Test

## Iteration1

### Test Result Information

Result Type: Test Iteration Result  
Parent: [aero](#)  
Start Time: 19-Oct-2025 12:39:11  
End Time: 19-Oct-2025 12:39:13  
Outcome: Passed

### Test Case Information

Name: Iteration1  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

### Verify Result

Name
✓ Test Sequence1/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.forcesInBody_N(1),0))
✓ Test Sequence1/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.forcesInBody_N(2),0))
✓ Test Sequence1/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.forcesInBody_N(3),0))
✓ Test Sequence1/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(1),0))
✓ Test Sequence1/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(2),0))



- ✔ Test Sequence1/.../verifyZeroOutputs:verify(isClose(aeroForcesMomentsBus.momentsInBody\_Nm(3),0))
- ✔ Test Sequence1/.../verifyZeroOutputs:verify(isClose(airDataBus.airspeedInBody\_mps(1),0))
- ✔ Test Sequence1/.../verifyZeroOutputs:verify(isClose(airDataBus.airspeedInBody\_mps(2),0))
- ✔ Test Sequence1/.../verifyZeroOutputs:verify(isClose(airDataBus.airspeedInBody\_mps(3),0))
- ✔ Test Sequence1/.../verifyZeroOutputs:verify(isClose(airDataBus.alpha\_rad,0))
- ✔ Test Sequence1/.../verifyZeroOutputs:verify(isClose(airDataBus.beta\_rad,0))
- ✔ Test Sequence1/.../verifyAirspeed:verify(aeroForcesMomentsBus.forcesInBody\_N(1) < 0)
- ✔ Test Sequence1/.../verifyAirspeed:verify(isClose(aeroForcesMomentsBus.forcesInBody\_N(2),0))
- ✔ Test Sequence1/.../verifyAirspeed:verify(aeroForcesMomentsBus.forcesInBody\_N(3) < -20500 \* lbf2N)
- ✔ Test Sequence1/.../verifyAirspeed:verify(isClose(aeroForcesMomentsBus.momentsInBody\_Nm(1),0))
- ✔ Test Sequence1/.../verifyAirspeed:verify(aeroForcesMomentsBus.momentsInBody\_Nm(2) < 0)
- ✔ Test Sequence1/.../verifyAirspeed:verify(isClose(aeroForcesMomentsBus.momentsInBody\_Nm(3),0))
- ✔ Test Sequence1/.../verifyAirspeed:verify(isClose(airDataBus.airspeedInBody\_mps(2),0))
- ✔ Test Sequence1/.../verifyAirspeed:verify(isClose(airDataBus.airspeedInBody\_mps(3),0))
- ✔ Test Sequence1/.../verifyAirspeed:verify(isClose(airDataBus.alpha\_rad,0))
- ✔ Test Sequence1/.../verifyAirspeed:verify(isClose(airDataBus.beta\_rad,0))
- ✔ Test Sequence1/.../verifyElevatorDeflection:verify(isClose(aeroForcesMomentsBus.forcesInBody\_N(2),0))
- ✔ Test Sequence1/.../verifyElevatorDeflection:verify(aeroForcesMomentsBus.forcesInBody\_N(3) > cruiseZForce)
- ✔ Test Sequence1/.../verifyElevatorDeflection:verify(isClose(aeroForcesMomentsBus.momentsInBody\_Nm(1),0))
- ✔ Test Sequence1/.../verifyElevatorDeflection:verify(aeroForcesMomentsBus.momentsInBody\_Nm(2) > cruiseYMoment)
- ✔ Test Sequence1/.../verifyElevatorDeflection:verify(isClose(aeroForcesMomentsBus.momentsInBody\_Nm(3),0))
- ✔ Test Sequence1/.../verifyElevatorDeflection:verify(isClose(airDataBus.airspeedInBody\_mps(2),0))
- ✔ Test Sequence1/.../verifyElevatorDeflection:verify(isClose(airDataBus.airspeedInBody\_mps(3),0))
- ✔ Test Sequence1/.../verifyElevatorDeflection:verify(isClose(airDataBus.alpha\_rad,0))
- ✔ Test Sequence1/.../verifyElevatorDeflection:verify(isClose(airDataBus.beta\_rad,0))
- ✔ Test Sequence1/.../verifyRudder:verify(aeroForcesMomentsBus.forcesInBody\_N(2) > 0)
- ✔ Test Sequence1/.../verifyRudder:verify(aeroForcesMomentsBus.forcesInBody\_N(3) < 0)
- ✔ Test Sequence1/.../verifyRudder:verify(aeroForcesMomentsBus.momentsInBody\_Nm(1) > 0)
- ✔ Test Sequence1/.../verifyRudder:verify(aeroForcesMomentsBus.momentsInBody\_Nm(2) < 0)
- ✔ Test Sequence1/.../verifyRudder:verify(aeroForcesMomentsBus.momentsInBody\_Nm(3) < 0)
- ✔ Test Sequence1/.../verifyRudder:verify(isClose(airDataBus.airspeedInBody\_mps(2),0))
- ✔ Test Sequence1/.../verifyRudder:verify(isClose(airDataBus.airspeedInBody\_mps(3),0))
- ✔ Test Sequence1/.../verifyRudder:verify(isClose(airDataBus.alpha\_rad,0))
- ✔ Test Sequence1/.../verifyRudder:verify(isClose(airDataBus.beta\_rad,0))
- ✔ Test Sequence1/.../verifyAileron:verify(aeroForcesMomentsBus.momentsInBody\_Nm(1) < 0)
- ✔ Test Sequence1/.../verifyAileron:verify(isClose(aeroForcesMomentsBus.momentsInBody\_Nm(2),cruiseYMoment))
- ✔ Test Sequence1/.../verifyAileron:verify(aeroForcesMomentsBus.momentsInBody\_Nm(3) < 0)

- ✓ Test Sequence1/.../verifyAileron:verify(isClose(airDataBus.alpha\_rad,0))
- ✓ Test Sequence1/.../verifyAileron:verify(isClose(airDataBus.beta\_rad,0))

## Simulation

### System Under Test Information

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

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

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## ground contact

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Vehicle Tests</a>
Start Time:	19-Oct-2025 12:39:13
End Time:	19-Oct-2025 12:39:15
Outcome:	Passed

## Test Case Information

Name: ground contact  
Type: Baseline Test

## Verify Result

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

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

## Simulation

### System Under Test Information

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

Test Logs:

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

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## **inertial dynamics**

### **Test Result Information**

Result Type:	Test Case Result
Parent:	<a href="#">Vehicle Tests</a>
Start Time:	19-Oct-2025 12:39:15
End Time:	19-Oct-2025 12:39:17
Outcome:	Passed

### **Test Case Information**

Name:	inertial dynamics
Type:	Baseline Test

## **Iteration1**

### **Test Result Information**

Result Type:	Test Iteration Result
Parent:	<a href="#">inertial dynamics</a>
Start Time:	19-Oct-2025 12:39:15
End Time:	19-Oct-2025 12:39:17
Outcome:	Passed

### **Test Case Information**

Name:	Iteration1
Type:	Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

Name
<div>✔ Test Sequence1/.../Test1:verify(isClose(bodyStatesBus.aircraftPosInNED_m(1), 0.5*interval_time^2*aircraftForcesInNED_N(1)/aircraftMass + aircraftInitialPosInNED_m(1)))</div>
<div>✔ Test Sequence1/.../Test1:verify(isClose(bodyStatesBus.aircraftVelInBody_mps(1), interval_time*aircraftForcesMomentsBus_forcesInBody_N(1)/aircraftMass + aircraftInitialVelInBody_mps(1)))</div>
<div>✔ Test Sequence1/.../Test1:verify(isClose(bodyStatesBus.aircraftAccelInBody_mps2(1),aircraftForcesMomentsBus_forcesInBody_N(1)/aircraftMass))</div>

Simulation

System Under Test Information

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

Simulation Logs:

'[aircraftInitialEuler rad](#)' is defined, but is never used in the Test Sequence block. [Delete this object.](#)

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Test Logs:

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

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## vehicle

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Vehicle Tests</a>
Start Time:	19-Oct-2025 12:39:17
End Time:	19-Oct-2025 12:39:26
Outcome:	Passed

### Test Case Information

Name:	vehicle
Type:	Baseline Test

## Iteration1

### Test Result Information

Result Type:	Test Iteration Result
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Parent: [vehicle](#)  
Start Time: 19-Oct-2025 12:39:17  
End Time: 19-Oct-2025 12:39:26  
Outcome: **Passed**

## Test Case Information

Name: Iteration1  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

## Verify Result

Name
✓ Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(1), 0 ))
✓ Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(2), 0 ))
✓ Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(3), 0 ))
✓ Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(1),0))
✓ Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(2),0))
✓ Test Sequence/.../verifyZeroInputs:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(3),0))
✓ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(1), 0 ))
✓ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(2), 0 ))
✓ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(3), 0 ))
✓ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(1),0))
✓ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(2),0))
✓ Test Sequence/.../verifyZeroInputsAgain:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(3),0))
✓ Test Sequence/.../verifyThrottle:verify(vehicleBus.AircraftForcesMoments.forcesInBody_N(1) > 0)
✓ Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(2), 0 ))
✓ Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMoments.forcesInBody_N(3), 0 ))
✓ Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(1),0))
✓ Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(2),0))
✓ Test Sequence/.../verifyThrottle:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(3),0))
✓ Test Sequence/.../verifyPitchIntoGround:verify(isClose(vehicleBus.AircraftForcesMoments.momentsInBody_Nm(2), 0))



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

## Simulation

### System Under Test Information

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

Test Logs:

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

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engine

Test Result Information

Result Type: Test Case Result  
Parent: [Vehicle Tests](#)  
Start Time: 19-Oct-2025 12:39:27  
End Time: 19-Oct-2025 12:39:46  
Outcome: Passed

Test Case Information

Name: engine  
Type: Baseline Test

Verify Result

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

Simulation

System Under Test Information

Model: engineModelF16

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

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

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## addFM

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Vehicle Tests</a>
Start Time:	19-Oct-2025 12:39:46
End Time:	19-Oct-2025 12:39:47
Outcome:	Passed

### Test Case Information

Name:	addFM
Type:	Baseline Test

## Iteration1

Test Result Information

Result Type: Test Iteration Result  
Parent: [addFM](#)  
Start Time: 19-Oct-2025 12:39:46  
End Time: 19-Oct-2025 12:39:47  
Outcome: Passed

Test Case Information

Name: Iteration1  
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

Name
<div>✔ Test Sequence1/.../Test1:verify(all(isClose(aircraftForcesMomentsBus.forcesInBody_N, aeroForcesMomentsBus.forcesInBody_N + engineForcesMomentsBus.forcesInBody_N + groundForcesMomentsBus.forcesInBody_N + weightForcesMomentsBus.forcesInBody_N)))</div>
<div>✔ Test Sequence1/.../Test1:verify(all(isClose(aircraftForcesMomentsBus.momentsInBody_Nm, engineForcesMomentsBus.momentsInBody_Nm + aeroForcesMomentsBus.momentsInBody_Nm + weightForcesMomentsBus.momentsInBody_Nm)))</div>
<div>✔ Test Sequence1/.../Test2:verify(all(isClose(aircraftForcesMomentsBus.forcesInBody_N, aeroForcesMomentsBus.forcesInBody_N + engineForcesMomentsBus.forcesInBody_N + groundForcesMomentsBus.forcesInBody_N + weightForcesMomentsBus.forcesInBody_N)))</div>
<div>✔ Test Sequence1/.../Test2:verify(all(isClose(aircraftForcesMomentsBus.momentsInBody_Nm, aeroForcesMomentsBus.momentsInBody_Nm + engineForcesMomentsBus.momentsInBody_Nm + weightForcesMomentsBus.momentsInBody_Nm)))</div>
<div>✔ Test Sequence1/.../verifyPitchIntoGround:verify(all(isClose(aircraftForcesMomentsBus.forcesInBody_N, aeroForcesMomentsBus.forcesInBody_N + engineForcesMomentsBus.forcesInBody_N + groundForcesMomentsBus.forcesInBody_N + weightForcesMomentsBus.forcesInBody_N)))</div>
<div>✔ Test Sequence1/.../verifyPitchIntoGround:verify(isClose(aircraftForcesMomentsBus.momentsInBody_Nm(1), 0))</div>
<div>✔ Test Sequence1/.../verifyPitchIntoGround:verify(isClose(aircraftForcesMomentsBus.momentsInBody_Nm(2), engineForcesMomentsBus.momentsInBody_Nm(2) + aeroForcesMomentsBus.momentsInBody_Nm(2) + weightForcesMomentsBus.momentsInBody_Nm(2)))</div>

✓ 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:	<a href="#">Vehicle Tests</a>
Start Time:	19-Oct-2025 12:39:47
End Time:	19-Oct-2025 12:39:48

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:	<a href="#">Vehicle Tests</a>
Start Time:	19-Oct-2025 12:39:49
End Time:	19-Oct-2025 12:41:55
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:	Error_Generator_3
Start Time:	0
Stop Time:	280.00400000000002

Checksum: 1417193510 12782118 1430295359 339169230

Simulation Logs:

'[SensorsBus](#)' is defined, but is never used in the Test Sequence block. [Delete this object.](#)

'[VehicleBus](#)' is defined, but is never used in the Test Sequence block. [Delete this object.](#)

Warning issued while simulating Model block '[VehiclePlantTestHarness/VehiclePlant](#)'.

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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:	<a href="#">Results: 2025-Oct-19 12:39:00</a>
Start Time:	19-Oct-2025 12:41:56
End Time:	19-Oct-2025 12:42:01
Outcome:	Total: 4, <b>Passed: 4</b>



### Test Suite Information

Name: sensors

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## Sensor Tests

### Test Result Information

Result Type: Test Suite Result  
Parent: [sensors](#)  
Start Time: 19-Oct-2025 12:41:56  
End Time: 19-Oct-2025 12:42:01  
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: 19-Oct-2025 12:41:56  
End Time: 19-Oct-2025 12:41:57  
Outcome: **Passed**

### Test Case Information

Name: ins  
Type: Baseline Test

## Iteration1

Test Result Information

Result Type: Test Iteration Result  
Parent: [ins](#)  
Start Time: 19-Oct-2025 12:41:56  
End Time: 19-Oct-2025 12:41:57  
Outcome: Passed

Test Case Information

Name: Iteration1  
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenariorio	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:	<a href="#">Sensor Tests</a>
Start Time:	19-Oct-2025 12:41:57
End Time:	19-Oct-2025 12:41:58
Outcome:	Passed

### Test Case Information

Name: adc  
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result  
Parent: [adc](#)  
Start Time: 19-Oct-2025 12:41:57  
End Time: 19-Oct-2025 12:41:58  
Outcome: Passed

Test Case Information

Name: Iteration1  
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

Name
✔ Test 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.BaroSensorsBus.pressure_pa, 46563.26, 'atol', 100))
✓	Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.BaroSensorsBus.temperature_degC, -24.624, 'atol', 2))
✓	Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa, 0, 'atol', 100))
✓	Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.temperature_degC, -24.624, 'atol', 2))
✓	Test Sequence/.../checkDiffPress:verify(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa > 0)

## Simulation

### System Under Test Information

Model:	adc
Harness:	adcTestHarness
Harness Owner:	adc
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	adcTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	0.032000000000000001
Checksum:	1104384803 2190219993 1982550312 115166805

### Simulation Logs:

Warning issued while simulating Model block '[adcTestHarness/adc](#)'.

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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: 19-Oct-2025 12:41:58  
End Time: 19-Oct-2025 12:41:59  
Outcome: **Passed**

### Test Case Information

Name: gps  
Type: Baseline Test

## Iteration1

### Test Result Information

Result Type: Test Iteration Result  
Parent: [gps](#)  
Start Time: 19-Oct-2025 12:41:58  
End Time: 19-Oct-2025 12:41:59  
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:	<a href="#">Sensor Tests</a>
Start Time:	19-Oct-2025 12:41:59
End Time:	19-Oct-2025 12:42:01
Outcome:	<b>Passed</b>

### **Test Case Information**

Name:	sensors
Type:	Baseline Test

## **Iteration1**

### **Test Result Information**

Result Type:	Test Iteration Result
Parent:	<a href="#">sensors</a>
Start Time:	19-Oct-2025 12:41:59
End Time:	19-Oct-2025 12:42:01
Outcome:	<b>Passed</b>

### **Test Case Information**

Name:	Iteration1
Type:	Baseline Test

### **Iteration Settings**



### Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

## Simulation

### System Under Test Information

Model: sensors  
Harness: sensorsTestHarness  
Harness Owner: sensors  
Release: Current  
Simulation Mode: normal  
Override SIL or PIL Mode: 0  
Configuration Set: standardSILConfiguration  
Test Sequence Block: sensorsTestHarness/Test Sequence  
Test Sequence Scenario: Scenario\_1  
Start Time: 0  
Stop Time: 0.20000000000000001  
Checksum: 2546553817 1139126873 1496895507 1797210819

### Simulation Logs:

No data is logged for the model 'sensorsTestHarness'.

['SensorsBus'](#) is defined, but is never used in the Test Sequence block. [Delete this object.](#)

Warning issued while simulating Model block '[sensorsTestHarness/sensors](#)'.

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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:	<a href="#">Results: 2025-Oct-19 12:39:00</a>
Start Time:	19-Oct-2025 12:42:01
End Time:	19-Oct-2025 12:42:06
Outcome:	Total: 3, <b>Passed: 3</b>

### Test Suite Information

Name: environment

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## Environment Tests

### Test Result Information

Result Type:	Test Suite Result
Parent:	<a href="#">environment</a>
Start Time:	19-Oct-2025 12:42:01
End Time:	19-Oct-2025 12:42:06
Outcome:	Total: 3, <b>Passed: 3</b>

### Test Suite Information

Name: Environment Tests

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## Air

### Test Result Information

Result Type: Test Case Result  
Parent: [Environment Tests](#)  
Start Time: 19-Oct-2025 12:42:01  
End Time: 19-Oct-2025 12:42:03  
Outcome: **Passed**

### Test Case Information

Name: Air  
Type: Baseline Test

## Iteration1

### Test Result Information

Result Type: Test Iteration Result  
Parent: [Air](#)  
Start Time: 19-Oct-2025 12:42:01  
End Time: 19-Oct-2025 12:42:03  
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/.../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: 19-Oct-2025 12:42:03  
End Time: 19-Oct-2025 12:42:05  
Outcome: **Passed**

### Test Case Information

Name: Earth  
Type: Baseline Test

## Iteration1

### Test Result Information

Result Type: Test Iteration Result  
Parent: [Earth](#)  
Start Time: 19-Oct-2025 12:42:03  
End Time: 19-Oct-2025 12:42:05  
Outcome: **Passed**

### Test Case Information


Name: Iteration1  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

### Verify Result

Name	
	Test 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:	<a href="#">Environment Tests</a>
Start Time:	19-Oct-2025 12:42:05
End Time:	19-Oct-2025 12:42:06
Outcome:	Passed

### Test Case Information

Name: LocalTerrain  
Type: Baseline Test

## Iteration1

### Test Result Information

Result Type: Test Iteration Result  
Parent: [LocalTerrain](#)  
Start Time: 19-Oct-2025 12:42:05  
End Time: 19-Oct-2025 12:42:06  
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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