


# Report Generated by Test Manager





















**Title:** Branch: 28-hexarotor-UTs-optimWIP  
**Author:** Previous Commit Hash: 4c9e050a9e4fd2  
297bc758cb25733d91e20464e6  
**Date:** 19-Oct-2025 14:14:40

## Test Environment

Platform: PCWIN64  
MATLAB: (R2024a)

## Summary

Name	Outcome	Duration (Seconds)
<a href="#">Results: 2025-Oct-19 14:12:17</a>	16 ✓	140.848
 <a href="#">F16</a>	9 ✓	130.101
 <a href="#">Vehicle Tests</a>	9 ✓	130.101
 <a href="#">actuators</a>	✓	3.269
 <a href="#">Iteration1</a>	✓	3.269
 <a href="#">aero</a>	✓	2.106
 <a href="#">Iteration1</a>	✓	2.106
 <a href="#">ground contact</a>	✓	1.303
 <a href="#">inertial dynamics</a>	✓	1.478
 <a href="#">Iteration1</a>	✓	1.478
 <a href="#">vehicle</a>	✓	8.086
 <a href="#">Iteration1</a>	✓	8.087
 <a href="#">engine</a>	✓	16.351
 <a href="#">addFM</a>	✓	0.882
 <a href="#">Iteration1</a>	✓	0.881
 <a href="#">gravity</a>	✓	0.823
 <a href="#">FullSIL</a>	✓	94.07
 <a href="#">sensors</a>	4 ✓	4.794
 <a href="#">Sensor Tests</a>	4 ✓	4.794
 <a href="#">ins</a>	✓	1.12
 <a href="#">Iteration1</a>	✓	1.12
 <a href="#">adc</a>	✓	0.99
 <a href="#">Iteration1</a>	✓	0.99
 <a href="#">gps</a>	✓	0.957
 <a href="#">Iteration1</a>	✓	0.958

 <a href="#">sensors</a>		1.492
 <a href="#">Iteration1</a>		1.492
 <a href="#">environment</a>	3 	3.919
 <a href="#">Environment Tests</a>	3 	3.92
 <a href="#">Air</a>		0.953
 <a href="#">Iteration1</a>		0.953
 <a href="#">Earth</a>		2.103
 <a href="#">Iteration1</a>		2.104
 <a href="#">LocalTerrain</a>		0.711
 <a href="#">Iteration1</a>		0.71

## Results: 2025-Oct-19 14:12:17

Result Type: Result Set  
Parent: None  
Start Time: 19-Oct-2025 14:12:18  
End Time: 19-Oct-2025 14:14:39  
Outcome: Total: 16, Passed: 16

[Back to Report Summary](#)

## F16

### Test Result Information

Result Type: Test File Result  
Parent: [Results: 2025-Oct-19 14:12:17](#)  
Start Time: 19-Oct-2025 14:12:18  
End Time: 19-Oct-2025 14:14:28  
Outcome: Total: 9, Passed: 9

### Test Suite Information

Name: F16

[Back to Report Summary](#)

## Vehicle Tests

### Test Result Information

Result Type: Test Suite Result  
Parent: [F16](#)  
Start Time: 19-Oct-2025 14:12:18  
End Time: 19-Oct-2025 14:14:28  
Outcome: Total: 9, Passed: 9

### Test Suite Information

Name: Vehicle Tests

[Back to Report Summary](#)

actuators

Test Result Information

Result Type: Test Case Result  
Parent: [Vehicle Tests](#)  
Start Time: 19-Oct-2025 14:12:18  
End Time: 19-Oct-2025 14:12:21  
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 14:12:18  
End Time: 19-Oct-2025 14:12:21  
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.PropulsionBus.angVel_radps, 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.forcesInBody_N(1), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.forcesInBody_N(2), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.forcesInBody_N(3), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.momentsInBody_Nm(1), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.momentsInBody_Nm(2), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.momentsInBody_Nm(3), 0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad,0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad,0))
✓	Test Sequence/.../verifyControllerDisarmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder_rad,0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.PropulsionBus.angVel_radps, 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.forcesInBody_N(1), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.forcesInBody_N(2), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.forcesInBody_N(3), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.momentsInBody_Nm(1), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.momentsInBody_Nm(2), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.PropulsionBus.engineForcesMoments.momentsInBody_Nm(3), 0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad,0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad,0))
✓	Test Sequence/.../verifyControllerArmed:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder_rad,0))
✓	Test Sequence/.../verifyAileronRate:verify(aileronCmdRate <= aileronDeflRateLimit_degps)
✓	Test Sequence/.../verifyAileronLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad, deg2rad(maxAilDefl_deg)))
✓	Test Sequence/.../verifyNegAileronRate:verify(abs(aileronCmdRate) <= aileronDeflRateLimit_degps)
✓	Test Sequence/.../verifyNegAileronLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posAileron_rad, -deg2rad(maxAilDefl_deg)))
✓	Test Sequence/.../verifyElevatorRate:verify(elevatorCmdRate <= elevatorDeflRateLimit_degps)
✓	Test Sequence/.../verifyElevatorLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad, deg2rad(maxElevatorDefl_deg)))

✓	Test Sequence/.../verifyNegElevatorRate:verify(abs(elevatorCmdRate ) <= elevatorDeflRateLimit_degps)
✓	Test Sequence/.../verifyNegElevatorLimit:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posElevator_rad, -deg2rad(maxElevatorDefl_deg)))
✓	Test Sequence/.../verifyRudderRate:verify(rudderCmdRate <= rudderDeflRateLimit_degps)
✓	Test Sequence/.../verifyRudderMax:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder_rad, deg2rad(maxRudderDefl_deg)))
✓	Test Sequence/.../verifyNegRudderRate:verify(abs(rudderCmdRate) <= rudderDeflRateLimit_degps)
✓	Test Sequence/.../verifyNegRudderMax:verify(isClose(actuatorBus.ServosBus.ServosF16Bus.posRudder_rad, -deg2rad(maxRudderDefl_deg)))

## Simulation

### System Under Test Information

Model:	actuators
Harness:	actuatorsTestHarness
Harness Owner:	actuators
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	actuatorsTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	19.024000000000001
Checksum:	1035197211 3367557082 1635020878 828644898

### Test Logs:

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

[Back to Report Summary](#)

**aero**

### Test Result Information

Result Type: Test Case Result  
Parent: [Vehicle Tests](#)  
Start Time: 19-Oct-2025 14:12:22  
End Time: 19-Oct-2025 14:12:24  
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 14:12:22  
End Time: 19-Oct-2025 14:12:24  
Outcome: **Passed**

### Test Case Information

Name: Iteration1  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

### Verify Result

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



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

✓	Test Sequence1/.../verifyRudder:verify(isClose(airDataBus.beta_rad,0))
✓	Test Sequence1/.../verifyAileron:verify(aeroForcesMomentsBus.momentsInBody_Nm(1) < 0)
✓	Test Sequence1/.../verifyAileron:verify(isClose(aeroForcesMomentsBus.momentsInBody_Nm(2),cruiseYMoment))
✓	Test Sequence1/.../verifyAileron:verify(aeroForcesMomentsBus.momentsInBody_Nm(3) < 0)
✓	Test Sequence1/.../verifyAileron:verify(isClose(airDataBus.alpha_rad,0))
✓	Test Sequence1/.../verifyAileron:verify(isClose(airDataBus.beta_rad,0))

## Simulation

### System Under Test Information

Model:	aero
Harness:	aeroTestHarness
Harness Owner:	aero
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	aeroTestHarness/Test Sequence1
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	22
Checksum:	1204314850 3911341573 15874598 4021657899

### Test Logs:

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

[Back to Report Summary](#)

## ground contact

### Test Result Information

Result Type: Test Case Result  
Parent: [Vehicle Tests](#)  
Start Time: 19-Oct-2025 14:12:24  
End Time: 19-Oct-2025 14:12:25  
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.

[Back to Report Summary](#)

## inertial dynamics

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Vehicle Tests</a>
Start Time:	19-Oct-2025 14:12:26
End Time:	19-Oct-2025 14:12:27
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 14:12:26
End Time:	19-Oct-2025 14:12:27
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(isClose(bodyStatesBus.aircraftPosInNED_m(1), 0.5*interval_time^2*aircraftForcesInNED_N(1)/aircraftMass + aircraftInitialPosInNED_m(1)))
✓ Test Sequence1/.../Test1:verify(isClose(bodyStatesBus.aircraftVelInBody_mps(1), interval_time*aircraftForcesMomentsBus_forcesInBody_N(1)/aircraftMass + aircraftInitialVelInBody_mps(1)))
✓ Test Sequence1/.../Test1:verify(isClose(bodyStatesBus.aircraftAccelInBody_mps2(1),aircraftForcesMomentsBus_forcesInBody_N(1)/aircraftMass))

## Simulation

### System Under Test Information

Model: inertialDynamics  
Harness: inertialDynamicsTestHarness  
Harness Owner: inertialDynamics  
Release: Current  
Simulation Mode: normal  
Override SIL or PIL Mode: 0  
Configuration Set: standardSILConfiguration  
Test Sequence Block: inertialDynamicsTestHarness/Test Sequence1  
Test Sequence Scenario: Scenario\_1  
Start Time: 0  
Stop Time: 1.008  
Checksum: 2740628208 4264647383 940722363 2610557463

Simulation Logs:

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

[Back to Report Summary](#)

Test Logs:

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

[Back to Report Summary](#)

## vehicle

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Vehicle Tests</a>
Start Time:	19-Oct-2025 14:12:27
End Time:	19-Oct-2025 14:12:36
Outcome:	Passed

### Test Case Information

Name:	vehicle
Type:	Baseline Test

## Iteration1

Test Result Information

Result Type: Test Iteration Result  
Parent: [vehicle](#)  
Start Time: 19-Oct-2025 14:12:27  
End Time: 19-Oct-2025 14:12:36  
Outcome: Passed

Test Case Information

Name: Iteration1  
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScena rio	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:	3572155589 2390394185 2796403885 1853855084

#### Simulation Logs:

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

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

Remapping selected signal 'EngineBus.engineForcesMoments' to 'PropulsionBus.engineForcesMoments' in '[F16/Bus Selector4](#)' to match the bus hierarchy. Save your file to make this change permanent.

Remapping selected signal 'EngineBus.fuelRate\_kgps' to 'PropulsionBus.fuelRate\_kgps' in '[F16/Bus Selector5](#)' to match the bus hierarchy. Save your file to make this change permanent.

Remapping selected signal 'EngineBus.engineForcesMoments' to 'PropulsionBus.engineForcesMoments' in '[F16/Bus Selector2](#)' to match the bus hierarchy. Save your file to make this change permanent.

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

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

[Back to Report Summary](#)

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

[Back to Report Summary](#)

engine







Test Result Information

Result Type: Test Case Result  
Parent: [Vehicle Tests](#)  
Start Time: 19-Oct-2025 14:12:36  
End Time: 19-Oct-2025 14:12:52  
Outcome: Passed

Test Case Information

Name: engine  
Type: Baseline Test

Verify Result

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

✓ Test Sequence/.../verifyIncreaseAltitude:verify(isClose(thrust\_lbf, propulsionBus.engineForcesMoments.forcesInBody\_N(1), 'atol', 1))

## Simulation

### System Under Test Information

Model:	engineModelF16
Harness:	engineModelF16TestHarness
Harness Owner:	engineModelF16
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	engineModelF16TestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	38.003999999999998
Checksum:	1919719264 197051287 2377558008 1774720500

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

[Back to Report Summary](#)

## addFM

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Vehicle Tests</a>
Start Time:	19-Oct-2025 14:12:52
End Time:	19-Oct-2025 14:12:53
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 14:12:52  
End Time: 19-Oct-2025 14:12:53  
Outcome: **Passed**

### Test Case Information




Name: Iteration1  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

### Verify Result

Name
 Test Sequence1/.../Test1:verify(all(isClose(aircraftForcesMomentsBus.forcesInBody_N, aeroForcesMomentsBus.forcesInBody_N + engineForcesMomentsBus.forcesInBody_N + groundForcesMomentsBus.forcesInBody_N + weightForcesMomentsBus.forcesInBody_N)))
 Test Sequence1/.../Test1:verify(all(isClose(aircraftForcesMomentsBus.momentsInBody_Nm, engineForcesMomentsBus.momentsInBody_Nm + aeroForcesMomentsBus.momentsInBody_Nm + weightForcesMomentsBus.momentsInBody_Nm)))
 Test Sequence1/.../Test2:verify(all(isClose(aircraftForcesMomentsBus.forcesInBody_N, aeroForcesMomentsBus.forcesInBody_N + engineForcesMomentsBus.forcesInBody_N + groundForcesMomentsBus.forcesInBody_N + weightForcesMomentsBus.forcesInBody_N)))

```

✔ Test Sequence1/.../Test2:verify(all(isClose(aircraftForcesMomentsBus.momentsInBody_Nm, aeroForcesMomentsBus.momentsInBody_Nm + engineForcesMomentsBus.momentsInBody_Nm + weightForcesMomentsBus.momentsInBody_Nm)))
✔ Test Sequence1/.../verifyPitchIntoGround:verify(all(isClose(aircraftForcesMomentsBus.forcesInBody_N, aeroForcesMomentsBus.forcesInBody_N + engineForcesMomentsBus.forcesInBody_N + groundForcesMomentsBus.forcesInBody_N + weightForcesMomentsBus.forcesInBody_N)))
✔ Test Sequence1/.../verifyPitchIntoGround:verify(isClose(aircraftForcesMomentsBus.momentsInBody_Nm(1), 0))
✔ Test Sequence1/.../verifyPitchIntoGround:verify(isClose(aircraftForcesMomentsBus.momentsInBody_Nm(2), engineForcesMomentsBus.momentsInBody_Nm(2) + aeroForcesMomentsBus.momentsInBody_Nm(2) + weightForcesMomentsBus.momentsInBody_Nm(2)))
✔ Test Sequence1/.../verifyPitchIntoGround:verify(isClose(aircraftForcesMomentsBus.momentsInBody_Nm(3), engineForcesMomentsBus.momentsInBody_Nm(3) + aeroForcesMomentsBus.momentsInBody_Nm(3) + weightForcesMomentsBus.momentsInBody_Nm(3)))

```

## Simulation

### System Under Test Information

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

### Test Logs:

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

[Back to Report Summary](#)

gravity

Test Result Information

Result Type: Test Case Result  
Parent: [Vehicle Tests](#)  
Start Time: 19-Oct-2025 14:12:53  
End Time: 19-Oct-2025 14:12:54  
Outcome: Passed

Test Case Information

Name: gravity  
Type: Baseline Test

Verify Result

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

Simulation

System Under Test Information

Model: gravity  
Harness: gravityTestHarness  
Harness Owner: gravity

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

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

[Back to Report Summary](#)

## FullSIL

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Vehicle Tests</a>
Start Time:	19-Oct-2025 14:12:54
End Time:	19-Oct-2025 14:14:28
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:	3741715814 389861614 4232404438 650717578

#### Simulation Logs:

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

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

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

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

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

[Back to Report Summary](#)

Test Logs:

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

[Back to Report Summary](#)

## **sensors**

### **Test Result Information**

Result Type:	Test File Result
Parent:	<a href="#">Results: 2025-Oct-19 14:12:17</a>
Start Time:	19-Oct-2025 14:14:29
End Time:	19-Oct-2025 14:14:33
Outcome:	Total: 4, <b>Passed: 4</b>

### **Test Suite Information**

Name: sensors

[Back to Report Summary](#)

## **Sensor Tests**

### **Test Result Information**

Result Type:	Test Suite Result
Parent:	<a href="#">sensors</a>
Start Time:	19-Oct-2025 14:14:29
End Time:	19-Oct-2025 14:14:33
Outcome:	Total: 4, <b>Passed: 4</b>

### **Test Suite Information**

Name: Sensor Tests

[Back to Report Summary](#)

**ins**

### Test Result Information

Result Type: Test Case Result  
Parent: [Sensor Tests](#)  
Start Time: 19-Oct-2025 14:14:29  
End Time: 19-Oct-2025 14:14:30  
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 14:14:29  
End Time: 19-Oct-2025 14:14:30  
Outcome: **Passed**

### Test Case Information

Name: Iteration1  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

## Verify Result

Name
✓ Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.GyroSensorBus.x_radps, 0, 'atol', 0.01))
✓ Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.GyroSensorBus.y_radps, 0, 'atol', 0.01))
✓ Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.GyroSensorBus.z_radps, 0, 'atol', 0.01))
✓ Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.AccelSensorBus.x_mps2, 0, 'atol', 0.01))
✓ Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.AccelSensorBus.y_mps2, 0, 'atol', 0.01))
✓ Test Sequence/.../checkInsStatic:verify(isClose(INSSensorBus.AccelSensorBus.z_mps2, 0, 'atol', 0.01))
✓ Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.GyroSensorBus.x_radps, 0.1, 'atol', 0.01))
✓ Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.GyroSensorBus.y_radps, 0.2, 'atol', 0.01))
✓ Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.GyroSensorBus.z_radps, 0.3, 'atol', 0.01))
✓ Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.MagSensorBus.x_Gauss, 0, 'atol', 0.01))
✓ Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.MagSensorBus.y_Gauss, 0, 'atol', 0.01))
✓ Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.MagSensorBus.z_Gauss, 0, 'atol', 0.01))
✓ Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.AccelSensorBus.x_mps2, 1, 'atol', 0.01))
✓ Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.AccelSensorBus.y_mps2, 2, 'atol', 0.01))
✓ Test Sequence/.../checkInsDynamic:verify(isClose(INSSensorBus.AccelSensorBus.z_mps2, 3, 'atol', 0.01))

## Simulation

### System Under Test Information

Model:	ins
Harness:	insTestHarness
Harness Owner:	ins
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration
Test Sequence Block:	insTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	10.008000000000001
Checksum:	677169283 1337975363 3752592478 3123190075

Test Logs:

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

[Back to Report Summary](#)

## adc

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Sensor Tests</a>
Start Time:	19-Oct-2025 14:14:30
End Time:	19-Oct-2025 14:14:31
Outcome:	Passed

### Test Case Information

Name:	adc
Type:	Baseline Test

## Iteration1

### Test Result Information

Result Type:	Test Iteration Result
Parent:	<a href="#">adc</a>
Start Time:	19-Oct-2025 14:14:30
End Time:	19-Oct-2025 14:14:31
Outcome:	Passed

### Test Case Information

Name:	Iteration1
Type:	Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

Verify Result

Name
✓ Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.BaroSensorBus.altitude_m, 0, 'atol', 20))
✓ Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.BaroSensorBus.pressure_pa, 101325, 'atol', 100))
✓ Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.BaroSensorBus.temperature_degC, 15, 'atol', 2))
✓ Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa, 0, 'atol', 100))
✓ Test Sequence/.../checkSensors:verify(isClose(ADCSensorBus.DiffPressureSensorBus.temperature_degC, 15, 'atol', 2))
✓ Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.BaroSensorBus.altitude_m, 3048, 'atol', 20))
✓ Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.BaroSensorBus.pressure_pa, 69681.66, 'atol', 100))
✓ Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.BaroSensorBus.temperature_degC, -4.8, 'atol', 2))
✓ Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa, 0, 'atol', 100))
✓ Test Sequence/.../checkSensors10kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.temperature_degC, -4.8, 'atol', 2))
✓ Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.BaroSensorBus.altitude_m, 6096, 'atol', 20))
✓ Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.BaroSensorBus.pressure_pa, 46563.26, 'atol', 100))
✓ Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.BaroSensorBus.temperature_degC, -24.624, 'atol', 2))
✓ Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa, 0, 'atol', 100))
✓ Test Sequence/.../checkSensors20kft:verify(isClose(ADCSensorBus.DiffPressureSensorBus.temperature_degC, -24.624, 'atol', 2))
✓ Test Sequence/.../checkDiffPress:verify(ADCSensorBus.DiffPressureSensorBus.differential_pressure_pa > 0)

Simulation

System Under Test Information

Model:	adc
Harness:	adcTestHarness
Harness Owner:	adc
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	standardSILConfiguration

Test Sequence Block:	adcTestHarness/Test Sequence
Test Sequence Scenario:	Scenario_1
Start Time:	0
Stop Time:	0.032000000000000001
Checksum:	2809421967 1308668717 4053094731 2792199182

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

[Back to Report Summary](#)

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

[Back to Report Summary](#)

## gps

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Sensor Tests</a>
Start Time:	19-Oct-2025 14:14:31
End Time:	19-Oct-2025 14:14:32
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 14:14:31  
End Time: 19-Oct-2025 14:14:32  
Outcome: Passed

## Test Case Information

Name: Iteration1  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
TestSequenceScena rio	Scenario_1

## Verify Result

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



## Simulation

### System Under Test Information

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

### Test Logs:

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

[Back to Report Summary](#)

## sensors

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Sensor Tests</a>
Start Time:	19-Oct-2025 14:14:32
End Time:	19-Oct-2025 14:14:33
Outcome:	Passed

### Test Case Information

Name: sensors  
Type: Baseline Test

## Iteration1

### Test Result Information

Result Type: Test Iteration Result  
Parent: [sensors](#)  
Start Time: 19-Oct-2025 14:14:32  
End Time: 19-Oct-2025 14:14:33  
Outcome: Passed

### Test Case Information

Name: Iteration1  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

## Simulation

### System Under Test Information

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

Stop Time: 0.20000000000000001  
Checksum: 3166609996 3451383475 1534701048 1753185450

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

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

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

[Back to Report Summary](#)

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

[Back to Report Summary](#)

## environment

### Test Result Information

Result Type:	Test File Result
Parent:	<a href="#">Results: 2025-Oct-19 14:12:17</a>
Start Time:	19-Oct-2025 14:14:34
End Time:	19-Oct-2025 14:14:38
Outcome:	Total: 3, <b>Passed: 3</b>

### Test Suite Information

Name: environment

[Back to Report Summary](#)

## Environment Tests

### Test Result Information

Result Type: Test Suite Result  
Parent: [environment](#)  
Start Time: 19-Oct-2025 14:14:34  
End Time: 19-Oct-2025 14:14:38  
Outcome: Total: 3, **Passed: 3**

### Test Suite Information

Name: Environment Tests

[Back to Report Summary](#)

## Air

### Test Result Information

Result Type: Test Case Result  
Parent: [Environment Tests](#)  
Start Time: 19-Oct-2025 14:14:34  
End Time: 19-Oct-2025 14:14:35  
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 14:14:34  
End Time: 19-Oct-2025 14:14:35  
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.

[Back to Report Summary](#)

## Earth

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Environment Tests</a>
Start Time:	19-Oct-2025 14:14:35
End Time:	19-Oct-2025 14:14:37
Outcome:	Passed

### Test Case Information

Name:	Earth
Type:	Baseline Test

## Iteration1

### Test Result Information

Result Type:	Test Iteration Result
Parent:	<a href="#">Earth</a>
Start Time:	19-Oct-2025 14:14:35
End Time:	19-Oct-2025 14:14:37

Outcome: **Passed**

### Test Case Information


Name: Iteration1  
Type: Baseline Test

#### Iteration Settings

##### Test Overrides

Parameter Name	Value
TestSequenceScenario	Scenario_1

### Verify Result

Name	
	Test Sequence1/.../verifyAircraftZChange:verify(gravLow_mps2 > EarthEnvironmentBus.gravityScalar_mps2)

### Simulation

#### System Under Test Information

Model: Earth  
Harness: EarthTestHarness  
Harness Owner: Earth  
Release: Current  
Simulation Mode: normal  
Override SIL or PIL Mode: 0  
Configuration Set: standardSILConfiguration  
Test Sequence Block: EarthTestHarness/Test Sequence1  
Test Sequence Scenario: Scenario\_1  
Start Time: 0  
Stop Time: 7  
Checksum: 1175429799 1798864983 927034458 1191542450

Test Logs:

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

[Back to Report Summary](#)

## LocalTerrain

### Test Result Information

Result Type:	Test Case Result
Parent:	<a href="#">Environment Tests</a>
Start Time:	19-Oct-2025 14:14:37
End Time:	19-Oct-2025 14:14:38
Outcome:	Passed

### Test Case Information

Name:	LocalTerrain
Type:	Baseline Test

## Iteration1

### Test Result Information

Result Type:	Test Iteration Result
Parent:	<a href="#">LocalTerrain</a>
Start Time:	19-Oct-2025 14:14:37
End Time:	19-Oct-2025 14:14:38
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: 0.00400000000000000001  
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.](#)

[Back to Report Summary](#)

### Test Logs:

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

[Back to Report Summary](#)