

Report Generated by Test Manager

Title: Model Comparison - Test
Author: Gianvincenzo Daddabbo, Gaetano Gallo, Alberto Ruggeri, Martina Tedesco, Alessandro Toschi
Date: 16-Apr-2021 16:31:13

Test Environment

Platform: PCWIN64
MATLAB: (R2019b)

Summary

Name

Outcome Duration
(Seconds)

[Results: 2021-Apr-16 16:10:17](#)

 [Comparison Tests](#)

 [Free evolution](#)

 [Only throttle](#)

 [Constant steering](#)

 [Ramp steering](#)

 [Small sinusoidal steering](#)

 [Big sinusoidal steering](#)

 [Combined 1](#)

 [Combined 2](#)

2  6 

116.697

2  6 

116.698



75.187



7.786



7.309



5.082



5.392



5.236



5.166



5.222

Results: 2021-Apr-16 16:10:17

Result Type: Result Set
Parent: None
Start Time: 16-Apr-2021 16:10:20
End Time: 16-Apr-2021 16:12:16
Outcome: Total: 8, Passed: 2, Failed: 6

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Comparison Tests

Test Result Information

Result Type: Test Case Result
Parent: [Results: 2021-Apr-16 16:10:17](#)
Start Time: 16-Apr-2021 16:10:20
End Time: 16-Apr-2021 16:12:16
Outcome: Failed
Cause of Failure: Test failed as iteration failed

Description:

This report aims to check congruences and differences between two vehicle models: Dynamic model and Kinematic model.

In all the comparisons, our Dynamic model is considered as the baseline.

For the tests purposes we have not included Equivalence Criteria, indeed this will be a qualitative analysis.

The only parameter we have set up is the relative tolerance, assigning to it a value of 1% in order to ignore the negligible offsets between the Dynamic and the Kinematic model.

Test Case Information

Name: Comparison Tests
Type: Equivalence Test

Free evolution

Test Result Information

Result Type: Test Iteration Result
Parent: [Comparison Tests](#)
Start Time: 16-Apr-2021 16:10:19

End Time: 16-Apr-2021 16:11:35

Outcome: Passed

Description:

Free Evolution

Test performed starting from an initial condition with input equal to 0

Test Case Information

Name: Free evolution

Type: Equivalence Test

Iteration Settings

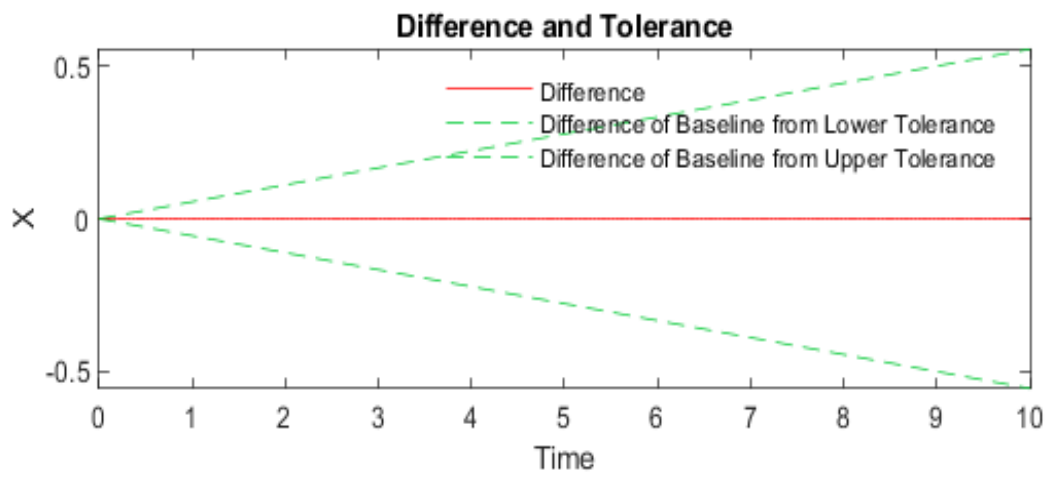
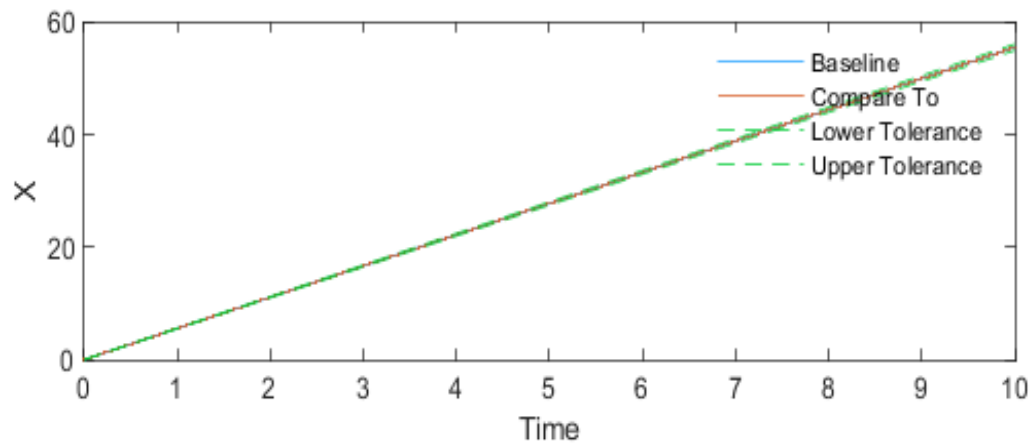
Test Overrides

Parameter Name	Value	Simulation Index
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Free_evolution.mat	1
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Free_evolution.mat	2

Equivalence Comparison

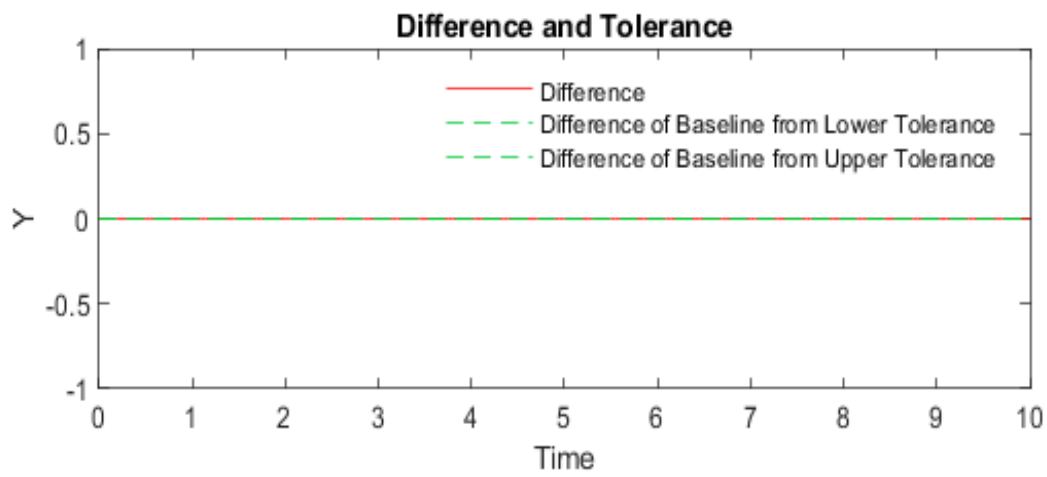
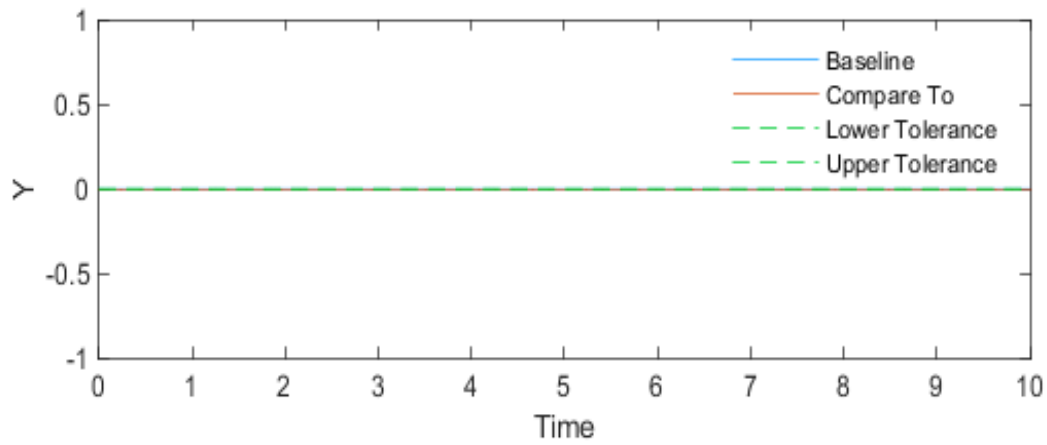
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
✓ X	0	0.01	0	0	4.34e-19	double		Continuous	double		0.001	linear	union	Link
✓ Y	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union	Link
✓ yaw	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union	Link
✓ V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union	Link

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ X	0	0.01	0	0	4.34e-19	double		Continuous	double		0.001	linear	union



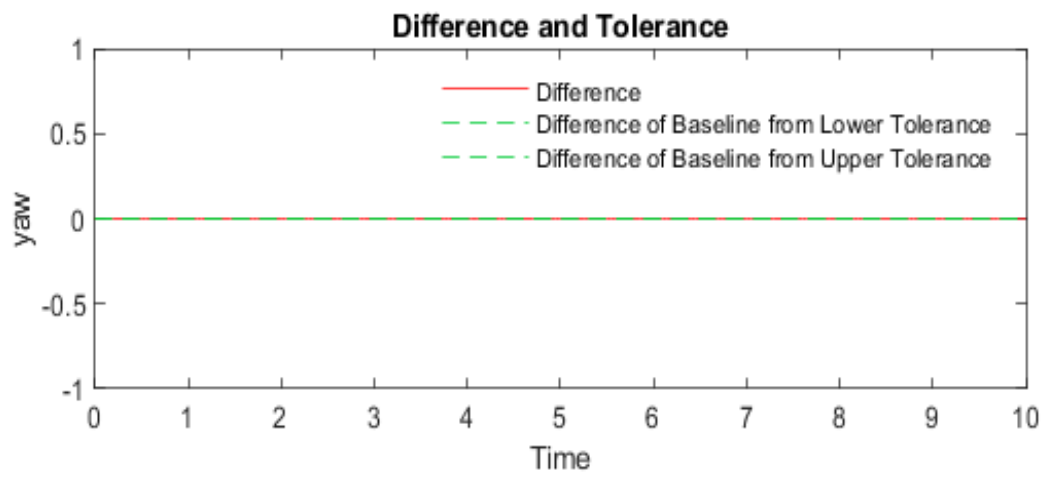
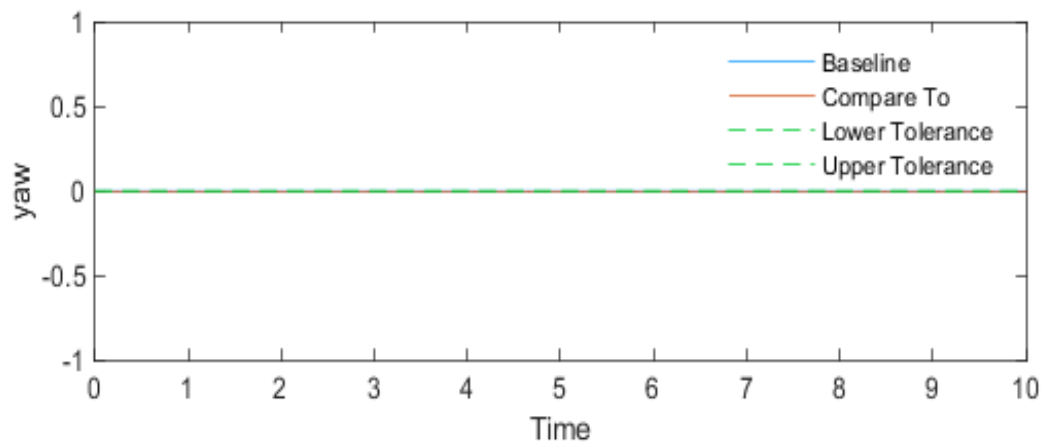
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ Y	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union



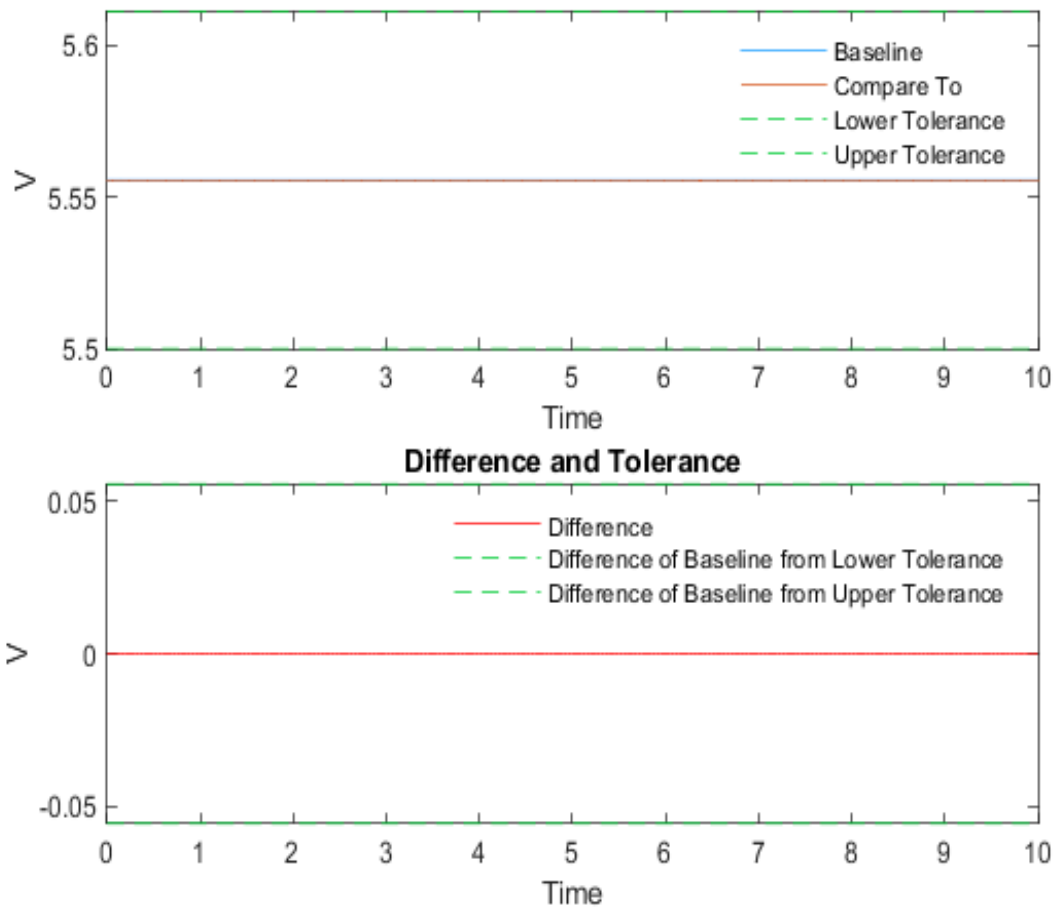
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ yaw	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union



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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union



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Input Data 1

Input Information

External Input Name: Free_evolution.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Free_evolution.mat

Input Data 2

Input Information

External Input Name: Free_evolution.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Free_evolution.mat

Simulation 1

System Under Test Information

Model: Model_compare_SLX

Harness: Model_comparison_dynamic

Harness Owner: Model_compare_SLX/Dynamic_model

Simulation Mode: normal

Override SIL or PIL Mode:

Configuration Set: Configuration1

External Input Name: Free_evolution.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Free_evolution.mat

Start Time: 0

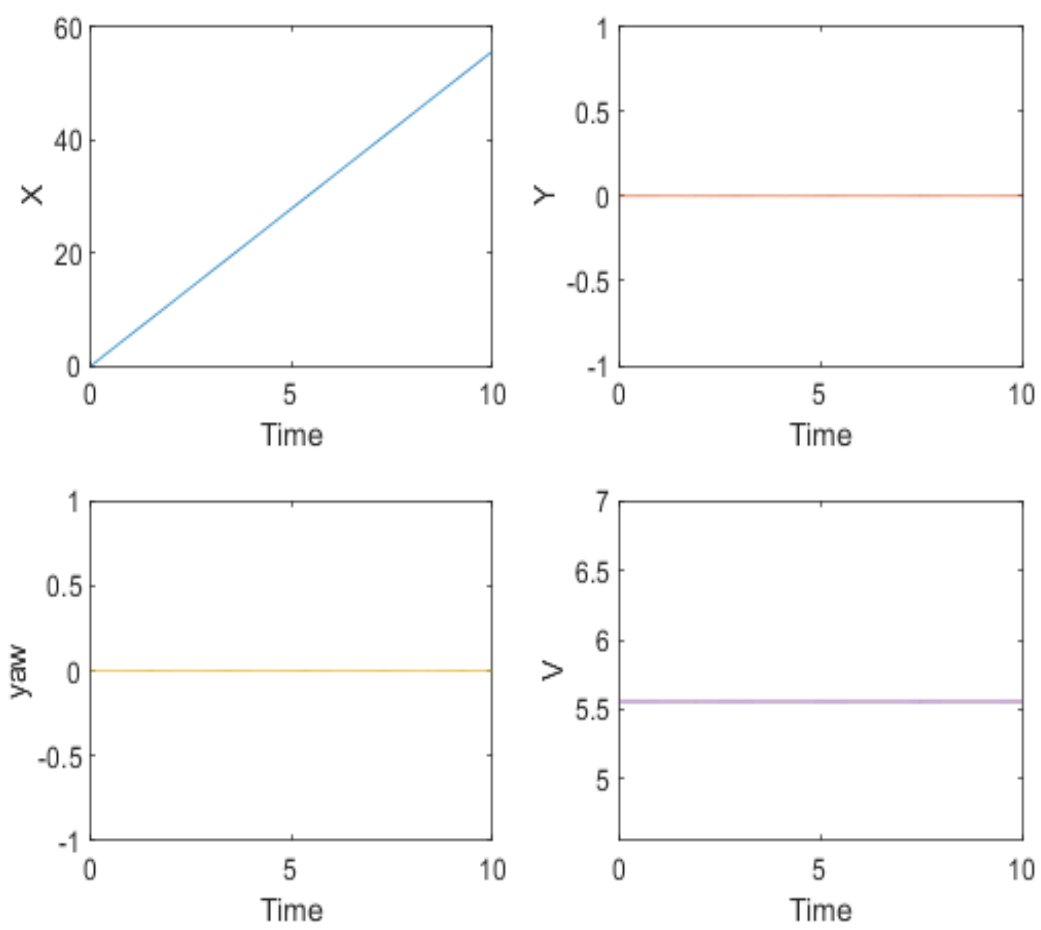
Stop Time: 10

Checksum: 4152128412 1859814811 142259360 3035885348

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		Continuous	linear	union	Link
Y	double		Continuous	linear	union	Link
yaw	double		Continuous	linear	union	Link
V	double		Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		Continuous	linear	union
Y	double		Continuous	linear	union
yaw	double		Continuous	linear	union
V	double		Continuous	linear	union



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Simulation 2

System Under Test Information

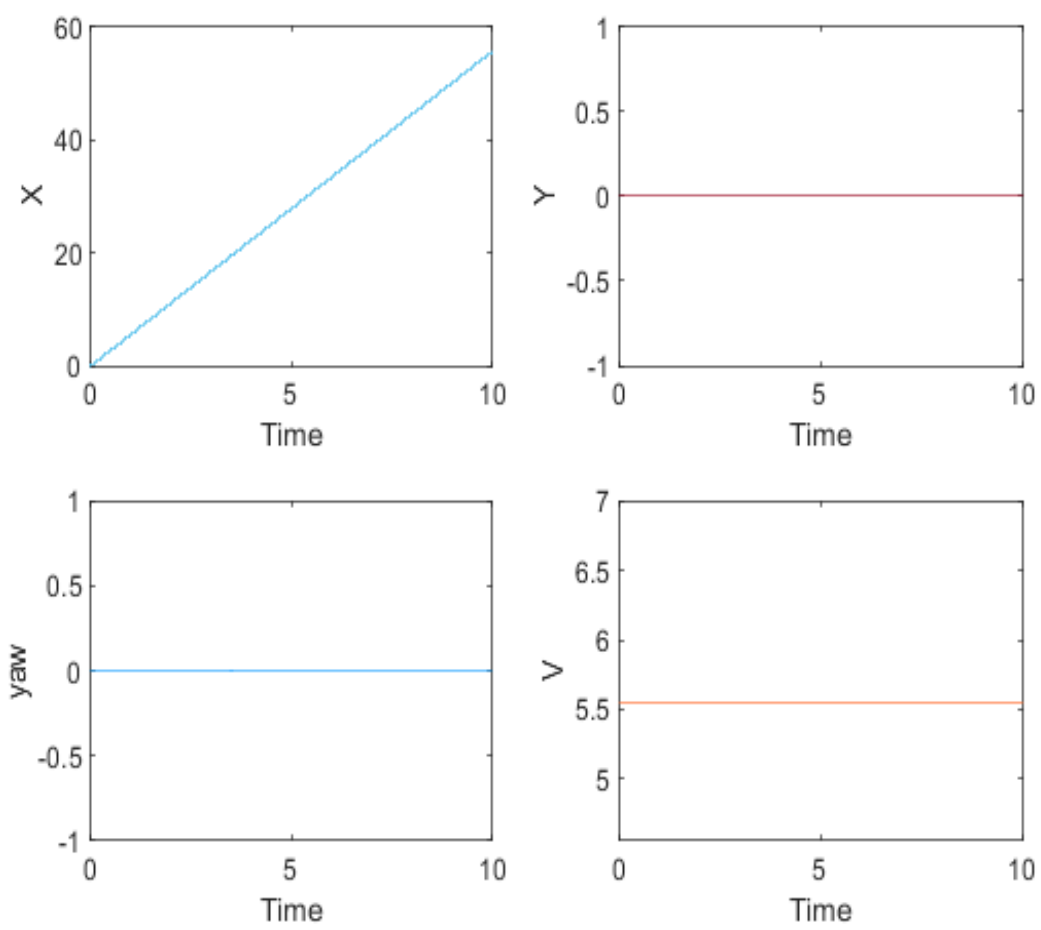
Model: Model_compare_SLX
Harness: Model_comparison_kinematic

Harness Owner: Model_compare_SLX/Kinematic_model
 Simulation Mode: normal
 Override SIL or PIL Mod 0
 e:
 Configuration Set: Configuration1
 External Input Name: Free_evolution.mat
 External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Free_evolution.mat
 Start Time: 0
 Stop Time: 10
 Checksum: 2799456273 4233424247 1463475084 743274136

Simulation Output

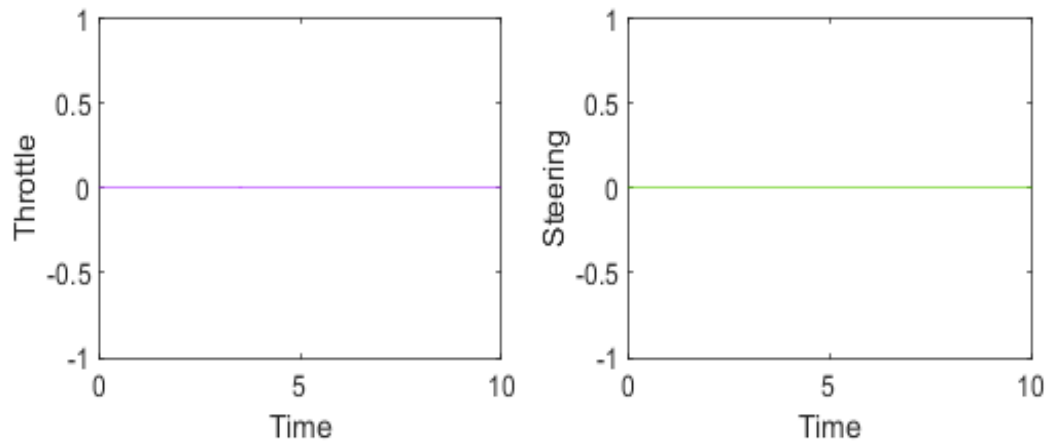
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		0.001	zoh	union	Link
Y	double		0.001	zoh	union	Link
yaw	double		0.001	zoh	union	Link
V	double		0.001	zoh	union	Link
Throttle	double		0.001	zoh	union	Link
Steering	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		0.001	zoh	union
Y	double		0.001	zoh	union
yaw	double		0.001	zoh	union
V	double		0.001	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
Throttle	double		0.001	zoh	union
Steering	double		0.001	zoh	union



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Only throttle

Test Result Information

Result Type: Test Iteration Result
 Parent: [Comparison Tests](#)
 Start Time: 16-Apr-2021 16:11:35

End Time: 16-Apr-2021 16:11:42

Outcome: Passed

Description:

Only throttle

Test performed keeping the steering angle equal to 0 and varying the throttle

Test Case Information

Name: Only throttle

Type: Equivalence Test

Iteration Settings

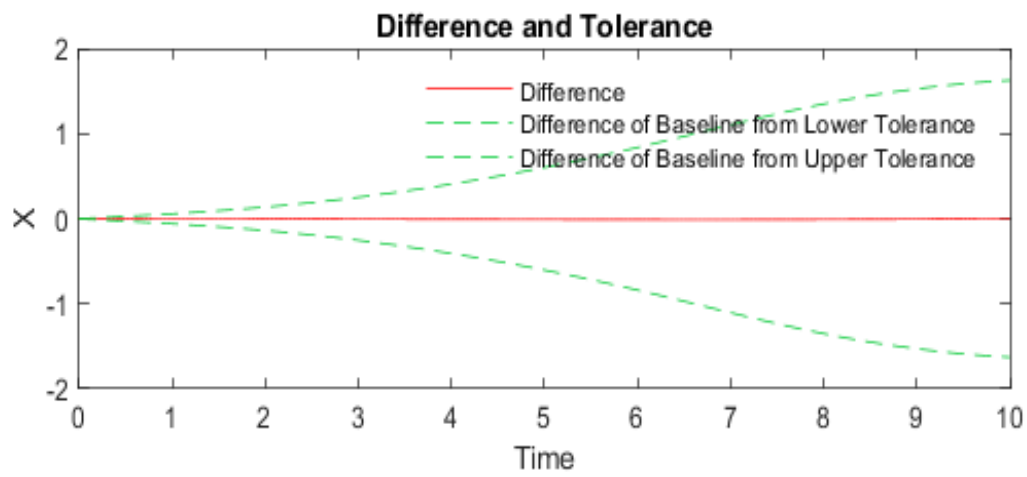
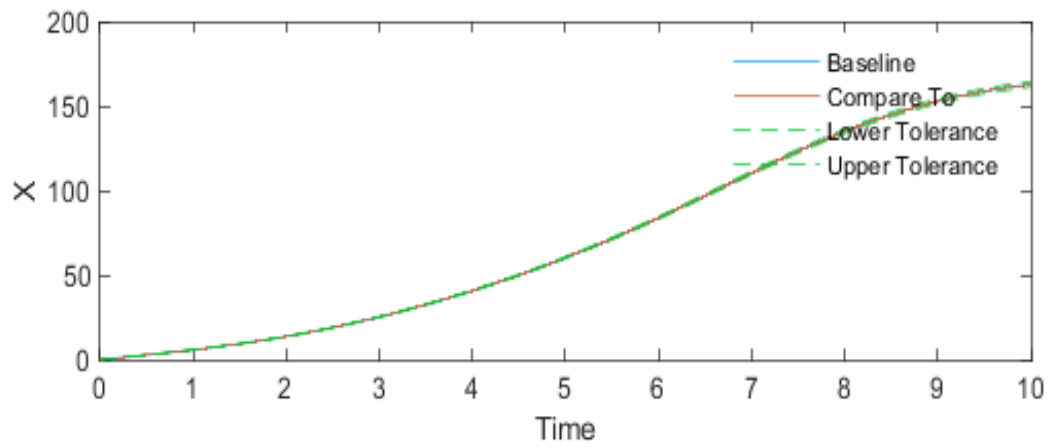
Test Overrides

Parameter Name	Value	Simulation Index
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Only_throttle.mat	1
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Only_throttle.mat	2

Equivalence Comparison

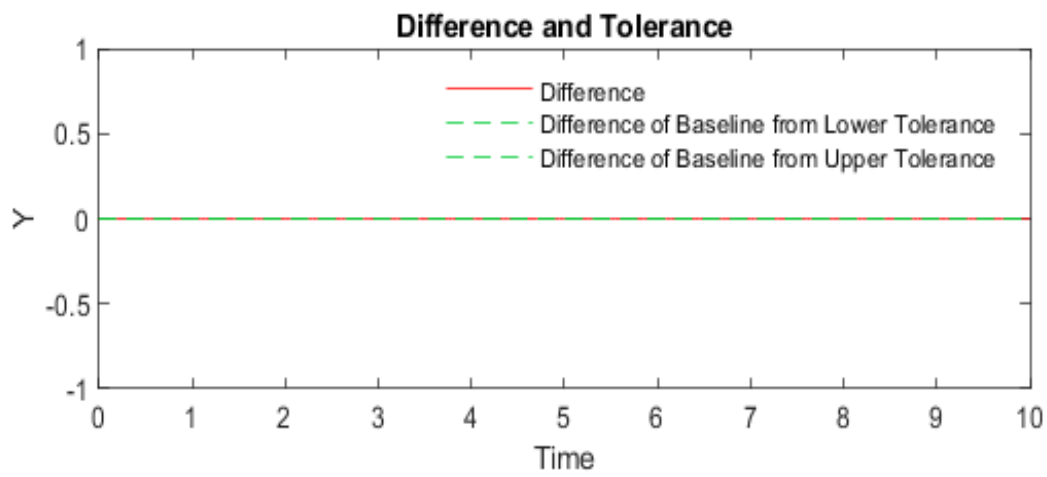
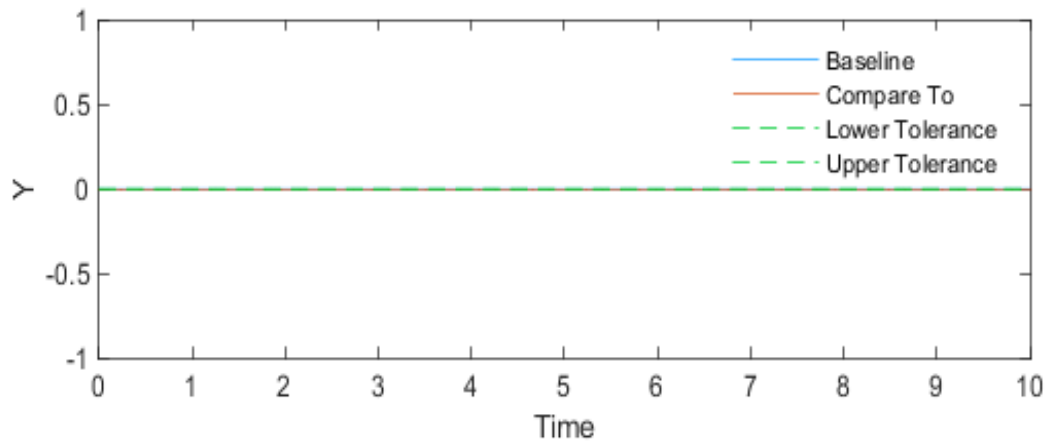
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
✓ X	0	0.01	0	0	0.0107	double		Continuous	double		0.001	linear	union	Link
✓ Y	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union	Link
✓ yaw	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union	Link
✓ V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union	Link

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ X	0	0.01	0	0	0.0107	double		Continuous	double		0.001	linear	union



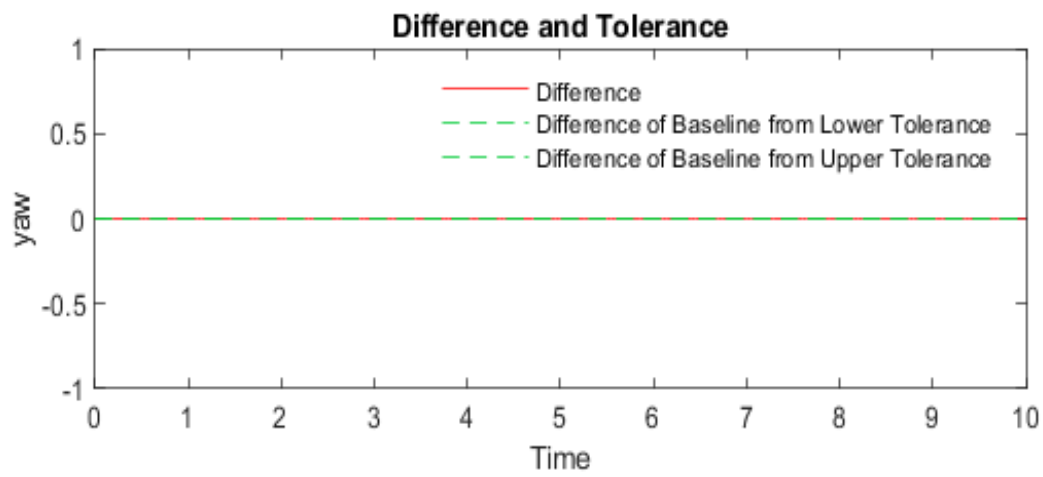
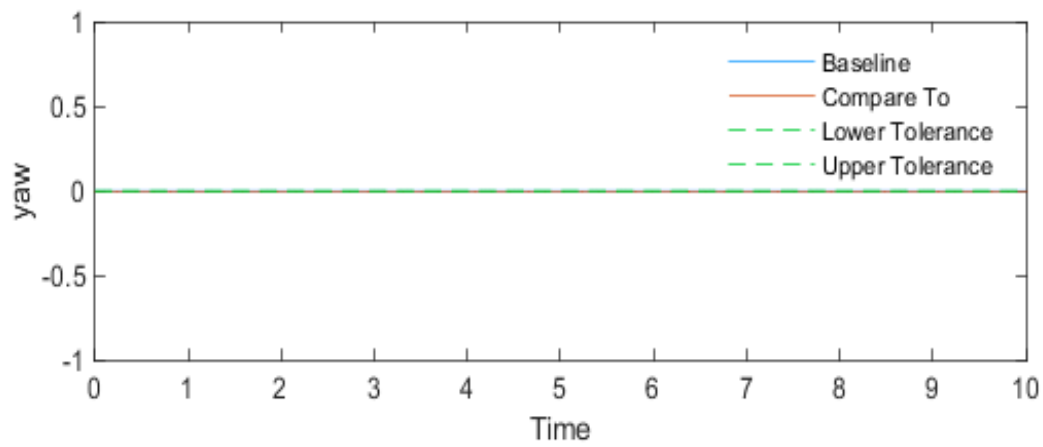
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ Y	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union



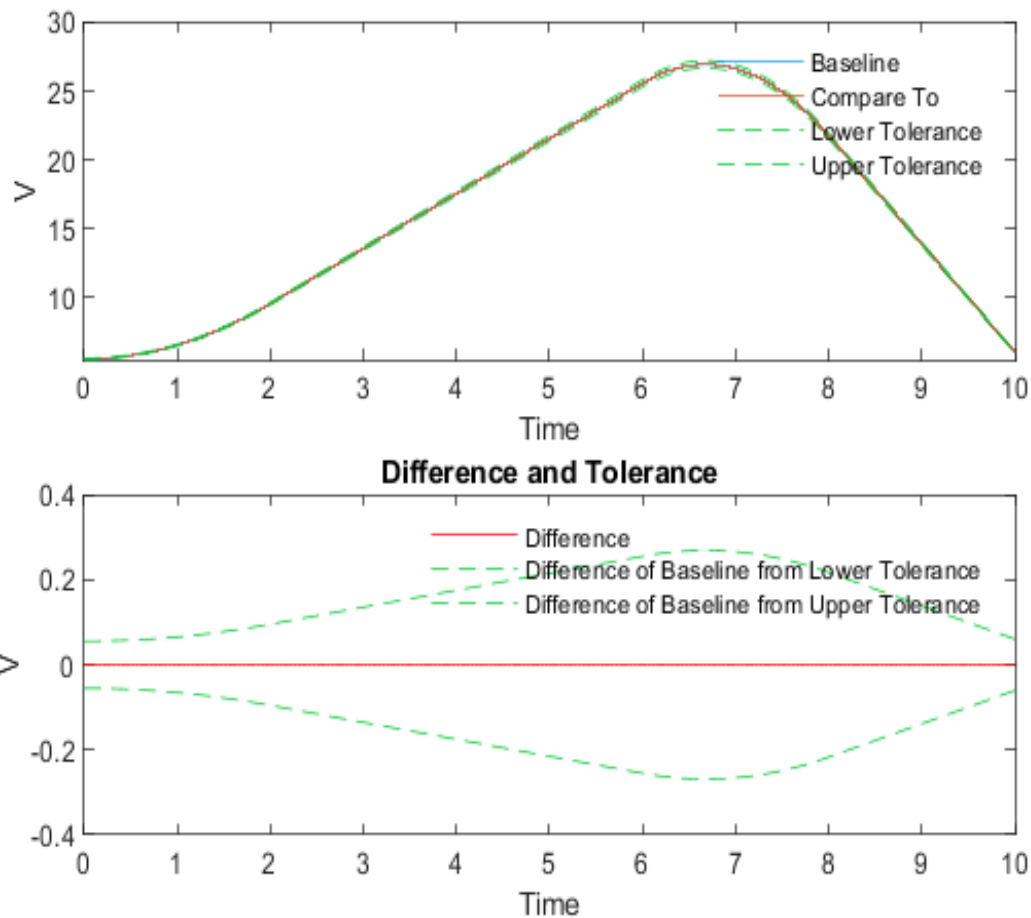
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ yaw	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union



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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union



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Input Data 1

Input Information

External Input Name: Only_throttle.mat
me:

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Only_throttle.mat

Input Data 2

Input Information

External Input Name: Only_throttle.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Only_throttle.mat

Simulation 1

System Under Test Information

Model: Model_compare_SLX

Harness: Model_comparison_dynamic

Harness Owner: Model_compare_SLX/Dynamic_model

Simulation Mode: normal

Override SIL or PIL Mode:

Configuration Set: Configuration1

External Input Name: Only_throttle.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Only_throttle.mat

Start Time: 0

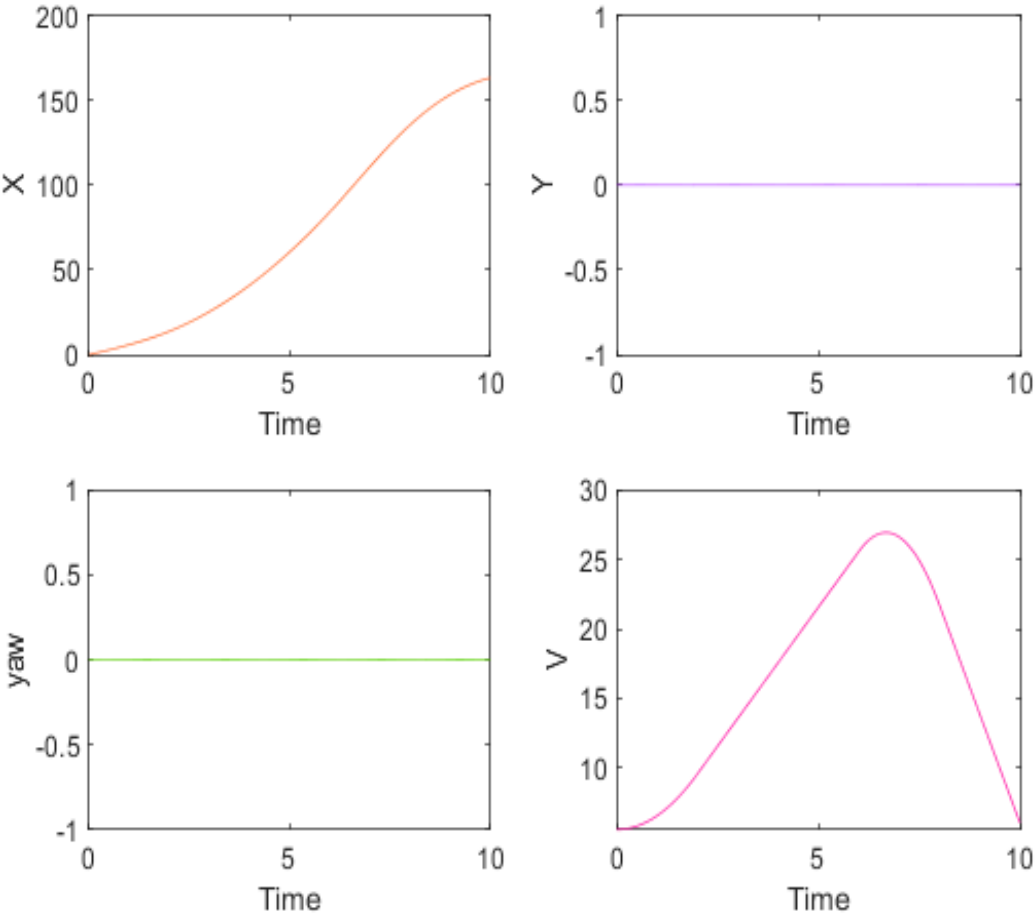
Stop Time: 10

Checksum: 4152128412 1859814811 142259360 3035885348

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		Continuous	linear	union	Link
Y	double		Continuous	linear	union	Link
yaw	double		Continuous	linear	union	Link
V	double		Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		Continuous	linear	union
Y	double		Continuous	linear	union
yaw	double		Continuous	linear	union
V	double		Continuous	linear	union



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Simulation 2

System Under Test Information

Model:

Model_compare_SLX

Harness:

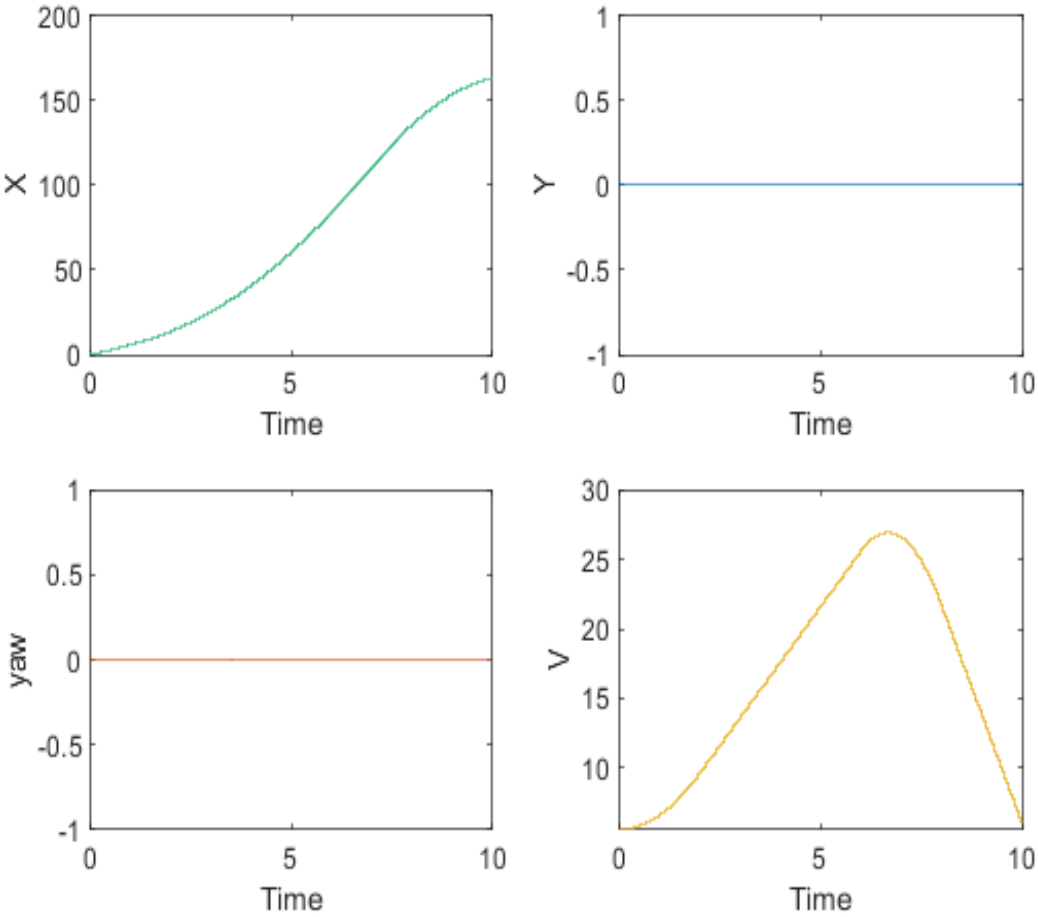
Model_comparison_kinematic

Harness Owner: Model_compare_SLX/Kinematic_model
 Simulation Mode: normal
 Override SIL or PIL Mod 0
 e:
 Configuration Set: Configuration1
 External Input Name: Only_throttle.mat
 External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Only_throttle.mat
 Start Time: 0
 Stop Time: 10
 Checksum: 2799456273 4233424247 1463475084 743274136

Simulation Output

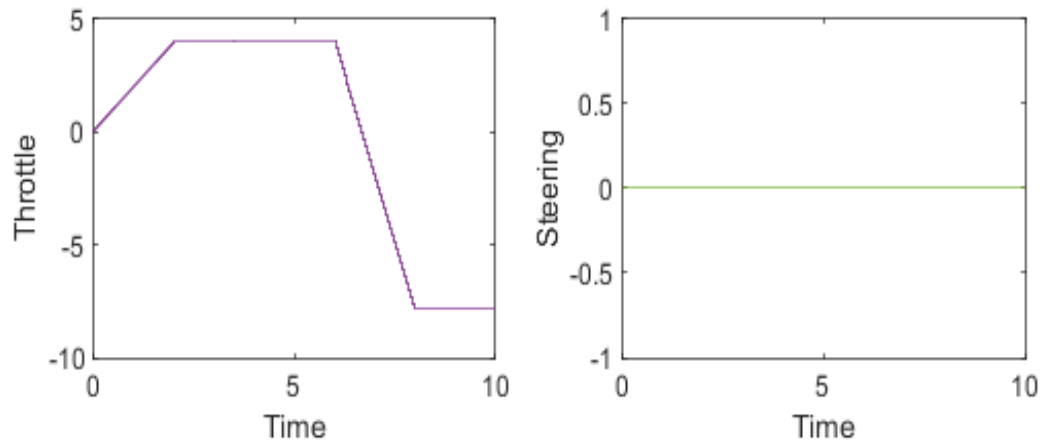
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		0.001	zoh	union	Link
Y	double		0.001	zoh	union	Link
yaw	double		0.001	zoh	union	Link
V	double		0.001	zoh	union	Link
Throttle	double		0.001	zoh	union	Link
Steering	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		0.001	zoh	union
Y	double		0.001	zoh	union
yaw	double		0.001	zoh	union
V	double		0.001	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
Throttle	double		0.001	zoh	union
Steering	double		0.001	zoh	union



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Constant steering

Test Result Information

Result Type: Test Iteration Result
 Parent: [Comparison Tests](#)
 Start Time: 16-Apr-2021 16:11:43

End Time: 16-Apr-2021 16:11:50
Outcome: **Failed**
Cause of Failure: **Failed criteria: Equivalence**
Description:

Constant steering

Test performed keeping the throttle equal to 0 and giving a constant steering angle value

Test Case Information





Name: Constant steering
Type: Equivalence Test

Iteration Settings

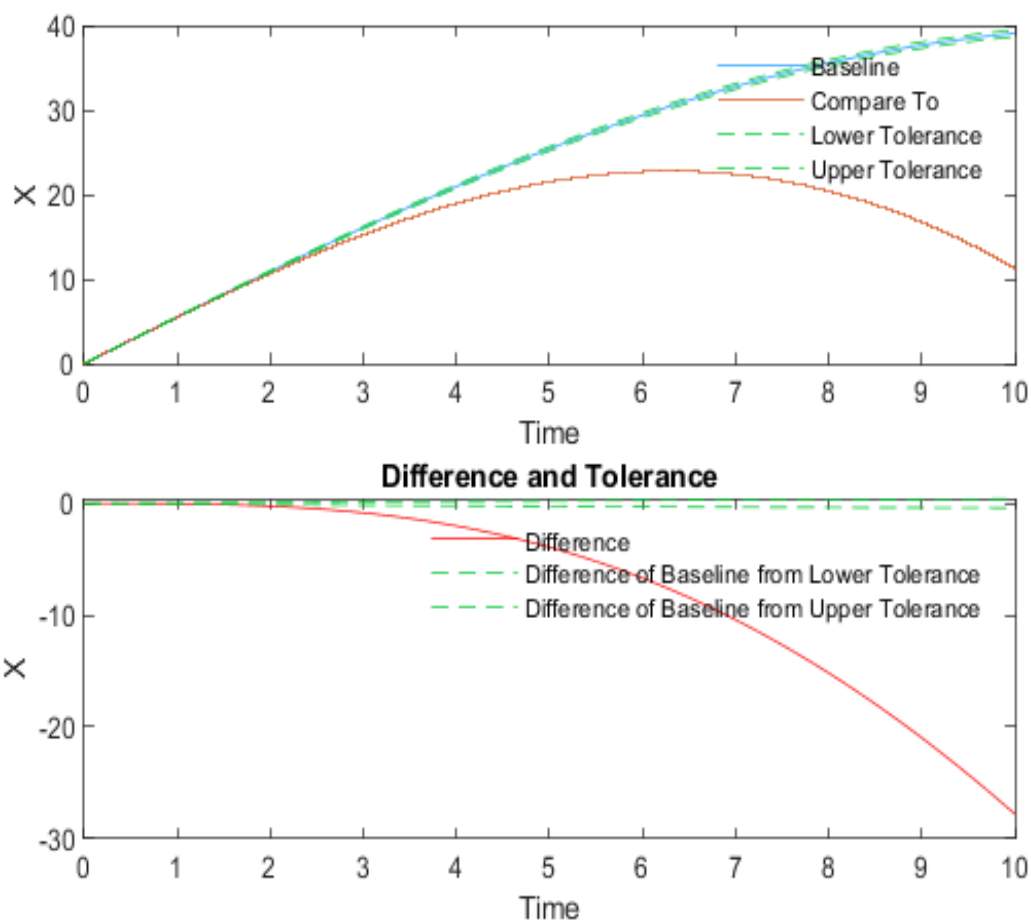
Test Overrides

Parameter Name	Value	Simulation Index
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Constant_steering.mat	1
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Constant_steering.mat	2

Equivalence Comparison

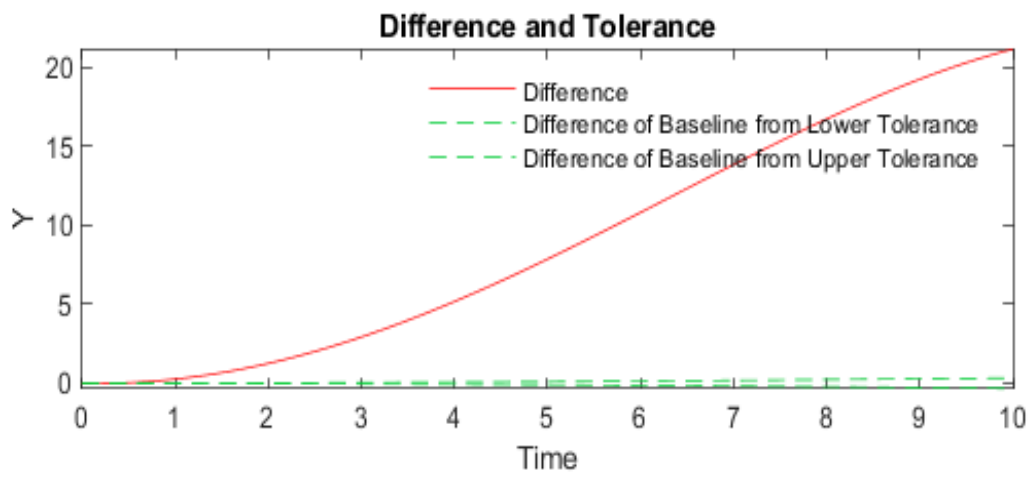
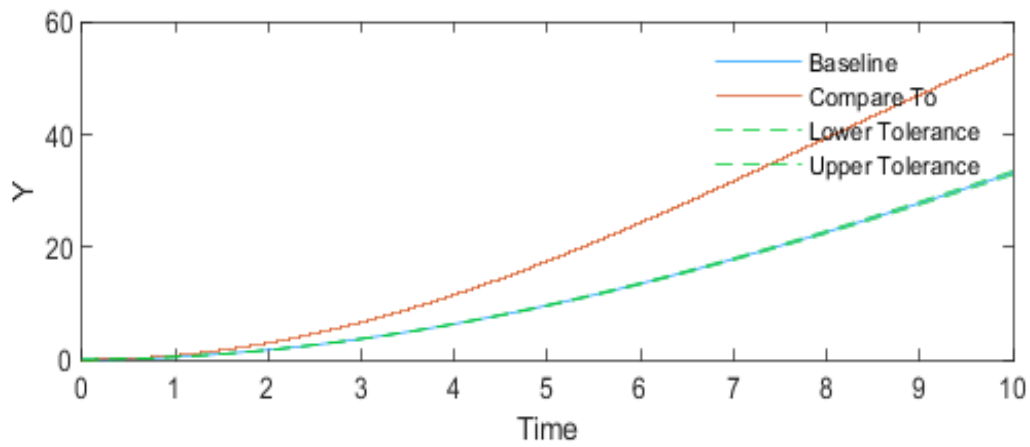
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
 X	0	0.01	0	0	27.8	double		Continuous	double		0.001	linear	union	Link
 Y	0	0.01	0	0	21.2	double		Continuous	double		0.001	linear	union	Link
 yaw	0	0.01	0	0	0.683	double		Continuous	double		0.001	linear	union	Link
 V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union	Link

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ X	0	0.01	0	0	27.8	double		Continuous	double		0.001	linear	union



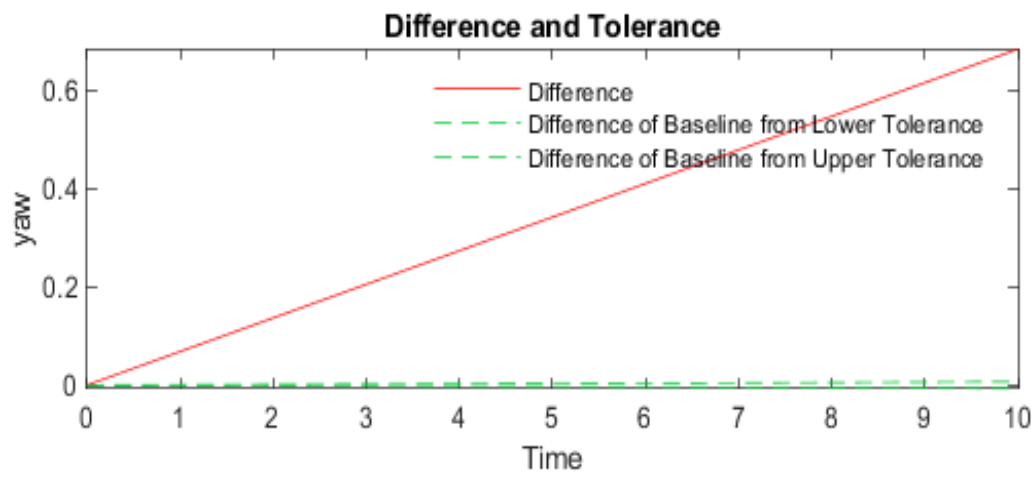
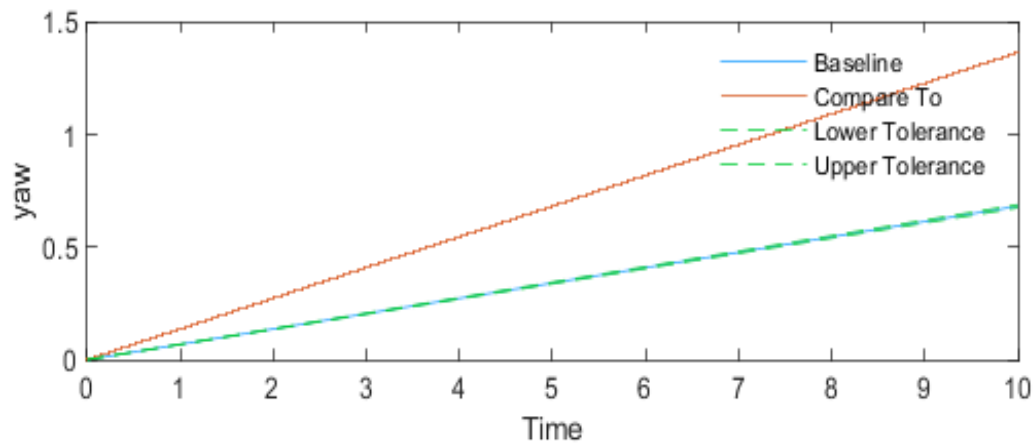
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ Y	0	0.01	0	0	21.2	double		Continuous	double		0.001	linear	union



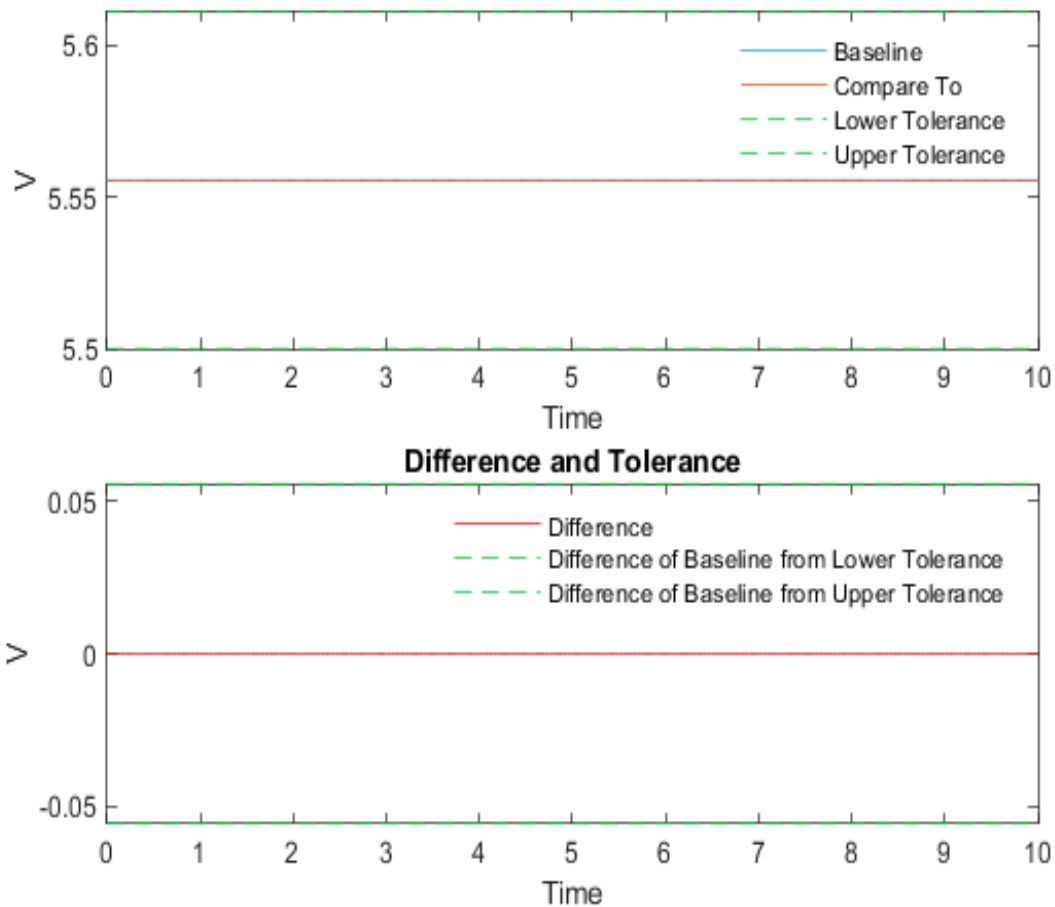
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ yaw	0	0.01	0	0	0.683	double		Continuous	double		0.001	linear	union



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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union



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Input Data 1

Input Information

External Input Name: Constant_steering.mat

me:

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Constant_steering.mat

Input Data 2

Input Information

External Input Name: Constant_steering.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Constant_steering.mat

Simulation 1

System Under Test Information

Model: Model_compare_SLX

Harness: Model_comparison_dynamic

Harness Owner: Model_compare_SLX/Dynamic_model

Simulation Mode: normal

Override SIL or PIL Mode:

Configuration Set: Configuration1

External Input Name: Constant_steering.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Constant_steering.mat

Start Time: 0

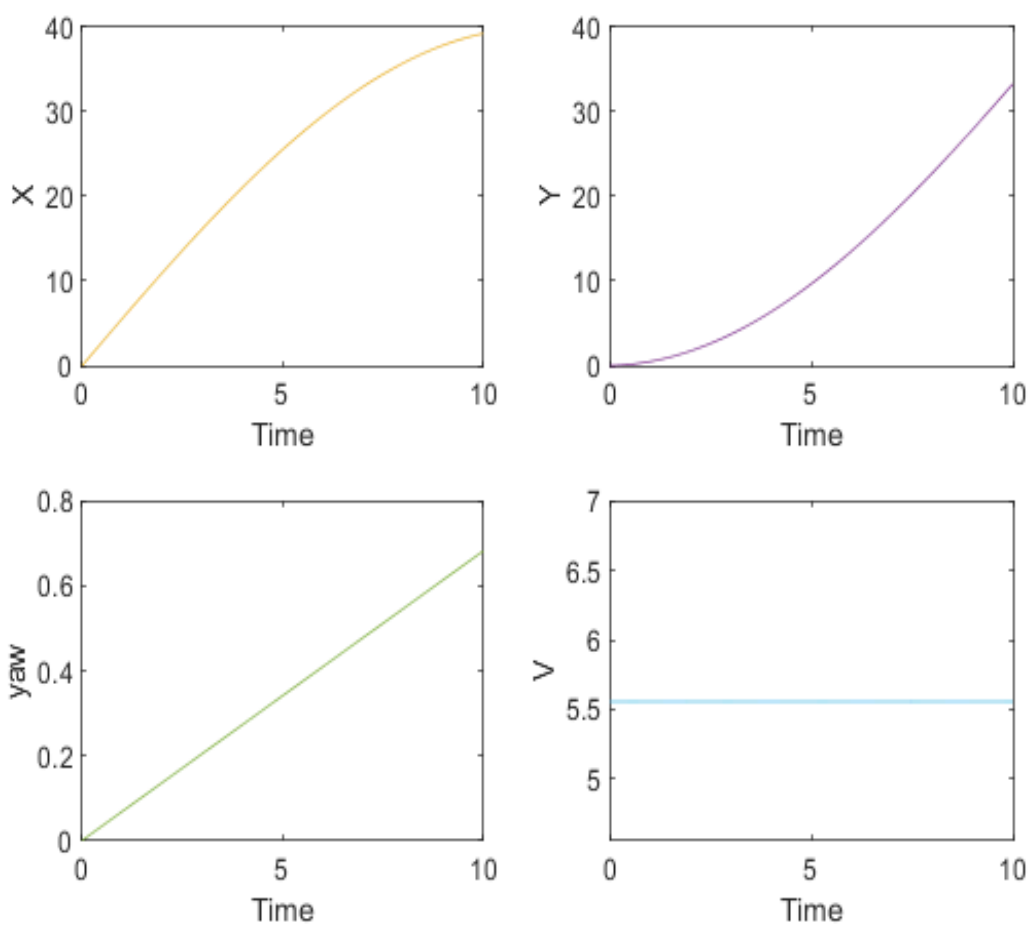
Stop Time: 10

Checksum: 4152128412 1859814811 142259360 3035885348

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		Continuous	linear	union	Link
Y	double		Continuous	linear	union	Link
yaw	double		Continuous	linear	union	Link
V	double		Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		Continuous	linear	union
Y	double		Continuous	linear	union
yaw	double		Continuous	linear	union
V	double		Continuous	linear	union



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Simulation 2

System Under Test Information

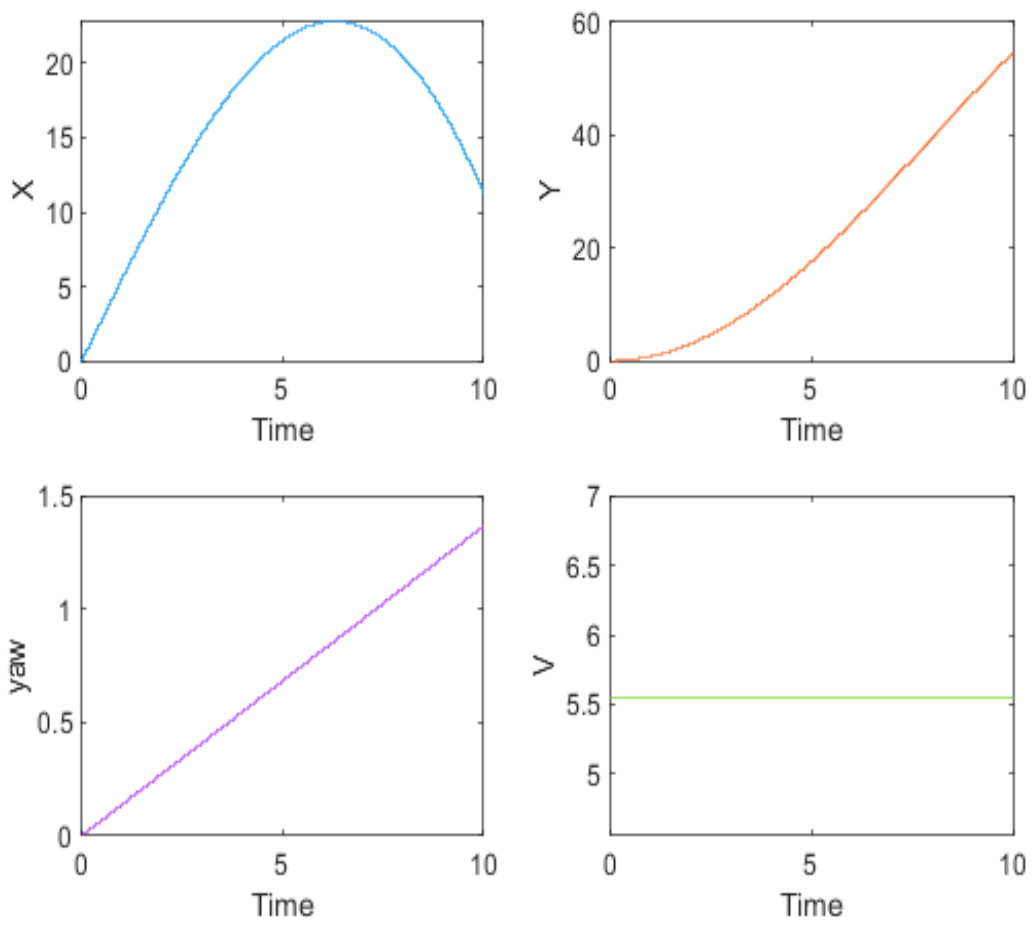
Model: Model_compare_SLX
Harness: Model_comparison_kinematic

Harness Owner: Model_compare_SLX/Kinematic_model
 Simulation Mode: normal
 Override SIL or PIL Mod 0
 e:
 Configuration Set: Configuration1
 External Input Name: Constant_steering.mat
 External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Constant_steering.mat
 Start Time: 0
 Stop Time: 10
 Checksum: 2799456273 4233424247 1463475084 743274136

Simulation Output

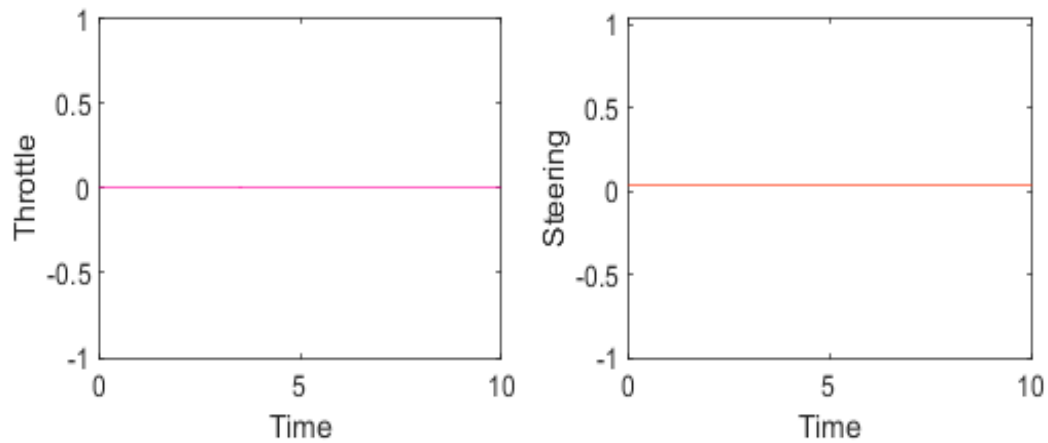
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		0.001	zoh	union	Link
Y	double		0.001	zoh	union	Link
yaw	double		0.001	zoh	union	Link
V	double		0.001	zoh	union	Link
Throttle	double		0.001	zoh	union	Link
Steering	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		0.001	zoh	union
Y	double		0.001	zoh	union
yaw	double		0.001	zoh	union
V	double		0.001	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
Throttle	double		0.001	zoh	union
Steering	double		0.001	zoh	union



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Ramp steering

Test Result Information

Result Type: Test Iteration Result
 Parent: [Comparison Tests](#)
 Start Time: 16-Apr-2021 16:11:50

End Time: 16-Apr-2021 16:11:55
Outcome: **Failed**
Cause of Failure: **Failed criteria: Equivalence**
Description:

Ramp steering

Test performed keeping the throttle equal to 0 and giving a ramp steering angle signal (from 0° to 36°)

Test Case Information





Name: Ramp steering
Type: Equivalence Test

Iteration Settings

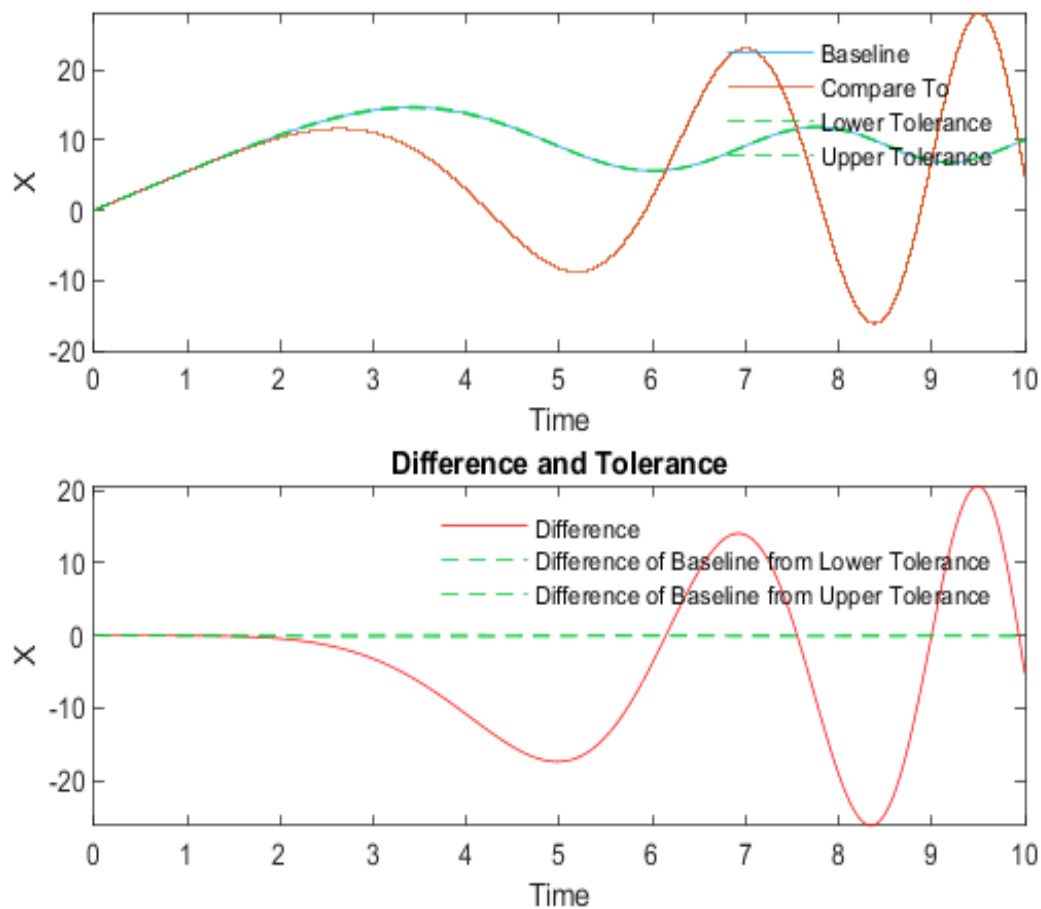
Test Overrides

Parameter Name	Value	Simulation Index
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Ramp_steering.mat	1
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Ramp_steering.mat	2

Equivalence Comparison

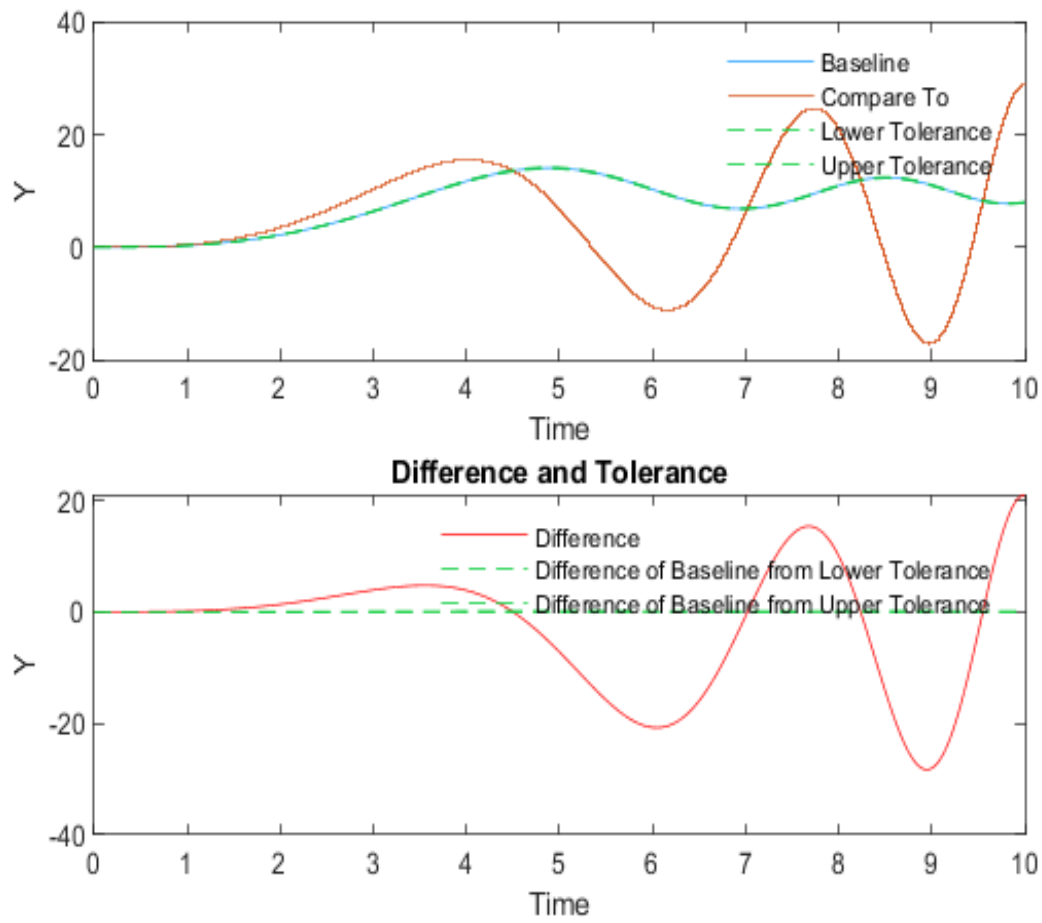
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
 X	0	0.01	0	0	26.1	double		Continuous	double		0.001	linear	union	Link
 Y	0	0.01	0	0	28.3	double		Continuous	double		0.001	linear	union	Link
 yaw	0	0.01	0	0	7.88	double		Continuous	double		0.001	linear	union	Link
 V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union	Link

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ X	0	0.01	0	0	26.1	double		Continuous	double		0.001	linear	union



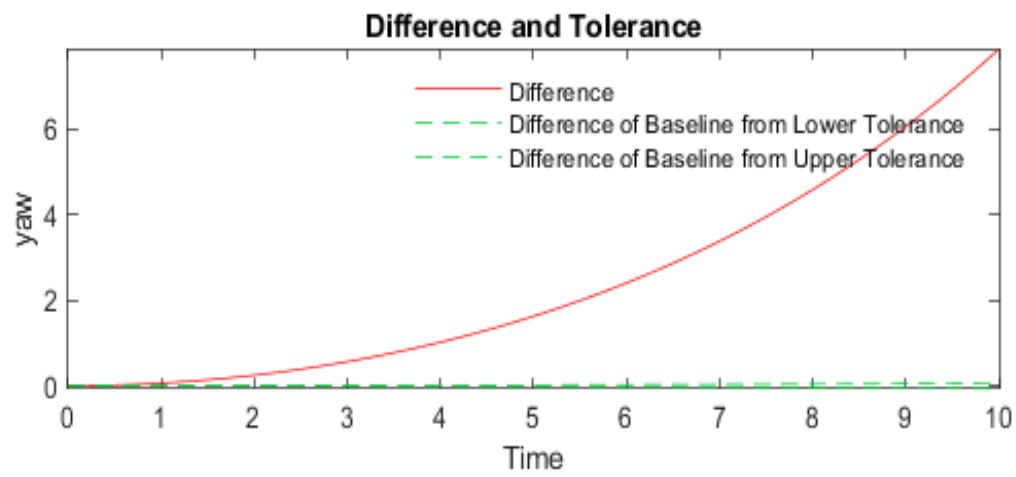
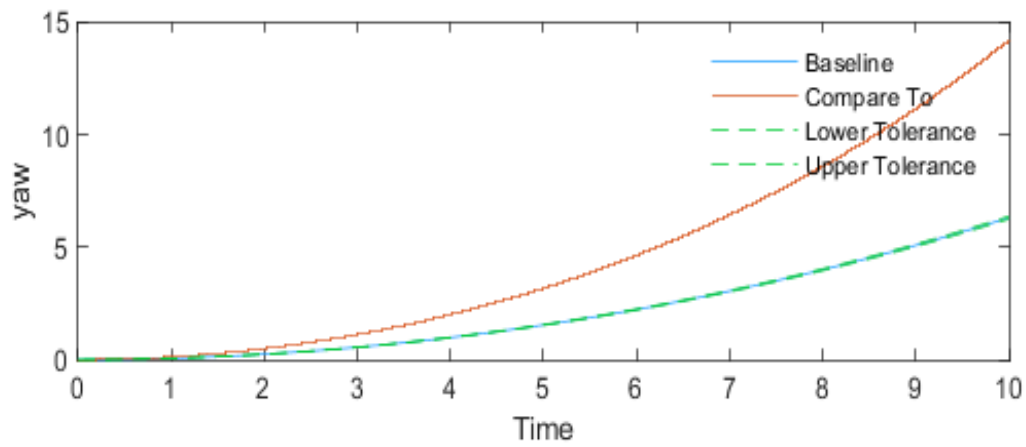
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ Y	0	0.01	0	0	28.3	double		Continuous	double		0.001	linear	union



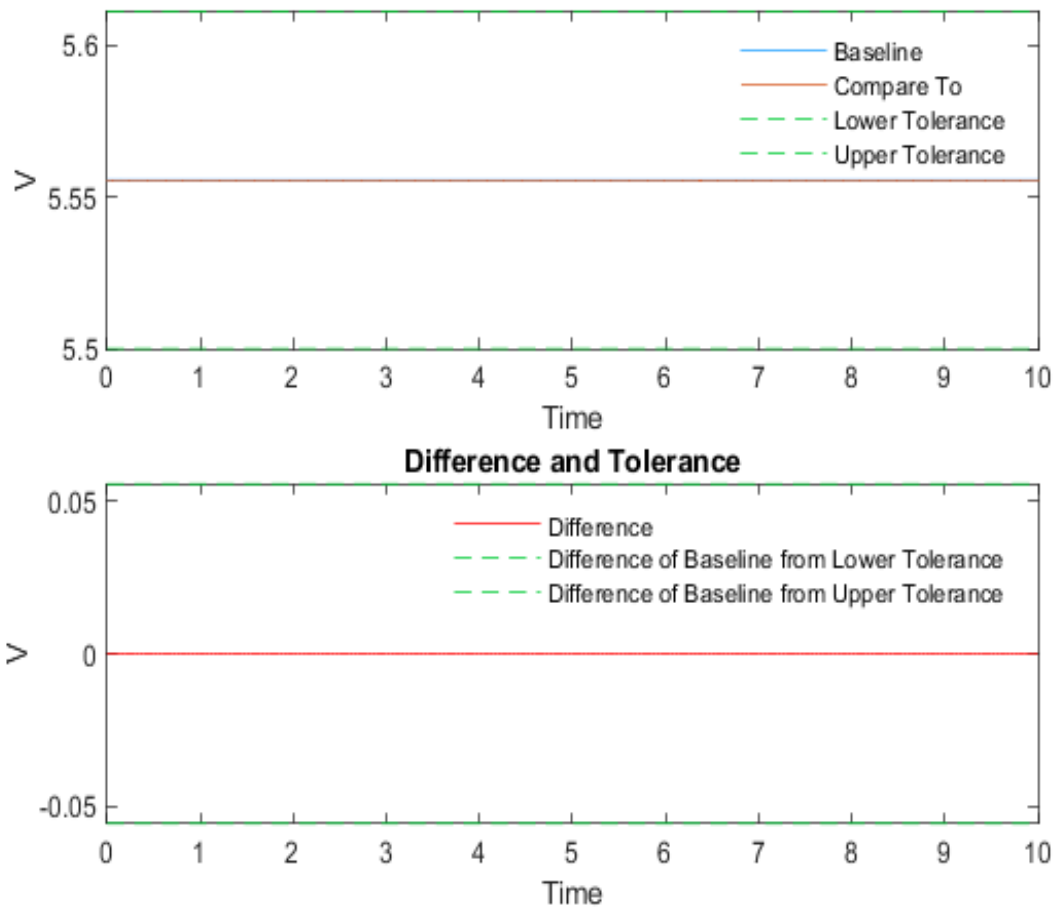
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ yaw	0	0.01	0	0	7.88	double		Continuous	double		0.001	linear	union



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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union



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Input Data 1

Input Information

External Input Name: Ramp_steering.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Ramp_steering.mat

Input Data 2

Input Information

External Input Name: Ramp_steering.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Ramp_steering.mat

Simulation 1

System Under Test Information

Model: Model_compare_SLX

Harness: Model_comparison_dynamic

Harness Owner: Model_compare_SLX/Dynamic_model

Simulation Mode: normal

Override SIL or PIL Mode:

Configuration Set: Configuration1

External Input Name: Ramp_steering.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Ramp_steering.mat

Start Time: 0

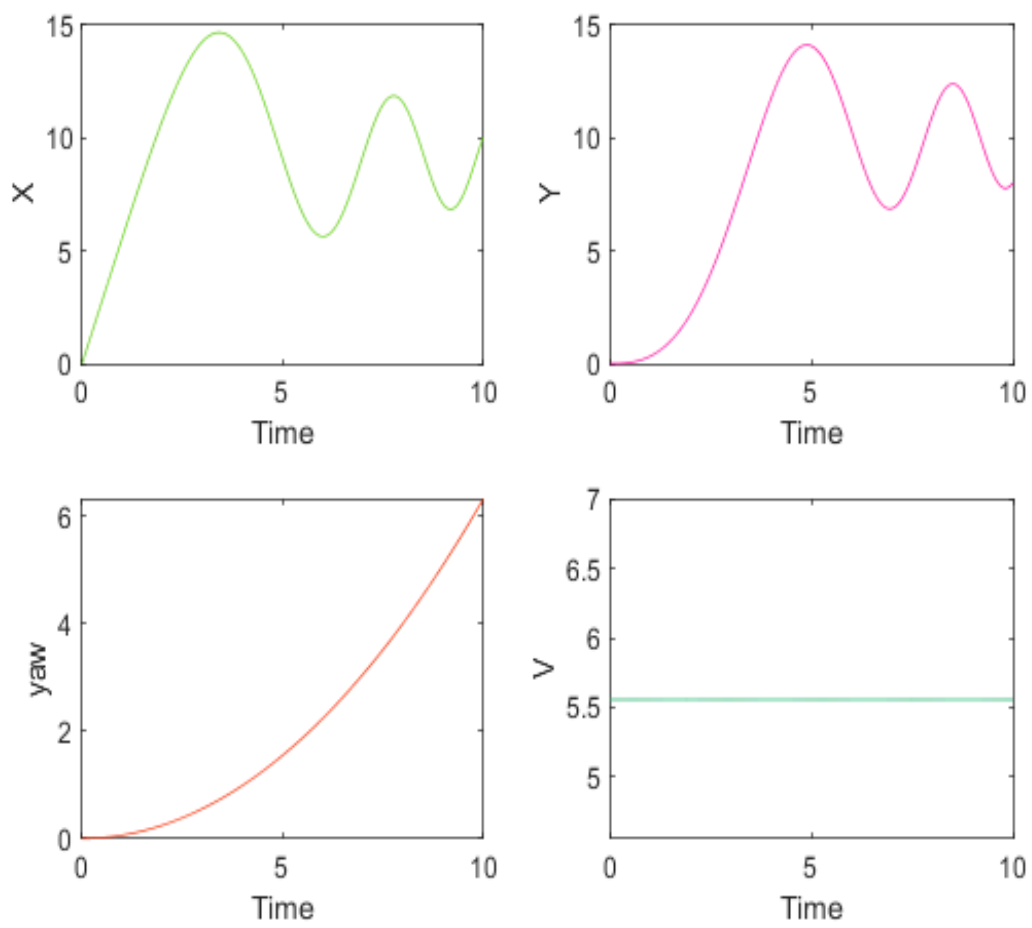
Stop Time: 10

Checksum: 4152128412 1859814811 142259360 3035885348

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		Continuous	linear	union	Link
Y	double		Continuous	linear	union	Link
yaw	double		Continuous	linear	union	Link
V	double		Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		Continuous	linear	union
Y	double		Continuous	linear	union
yaw	double		Continuous	linear	union
V	double		Continuous	linear	union



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Simulation 2

System Under Test Information

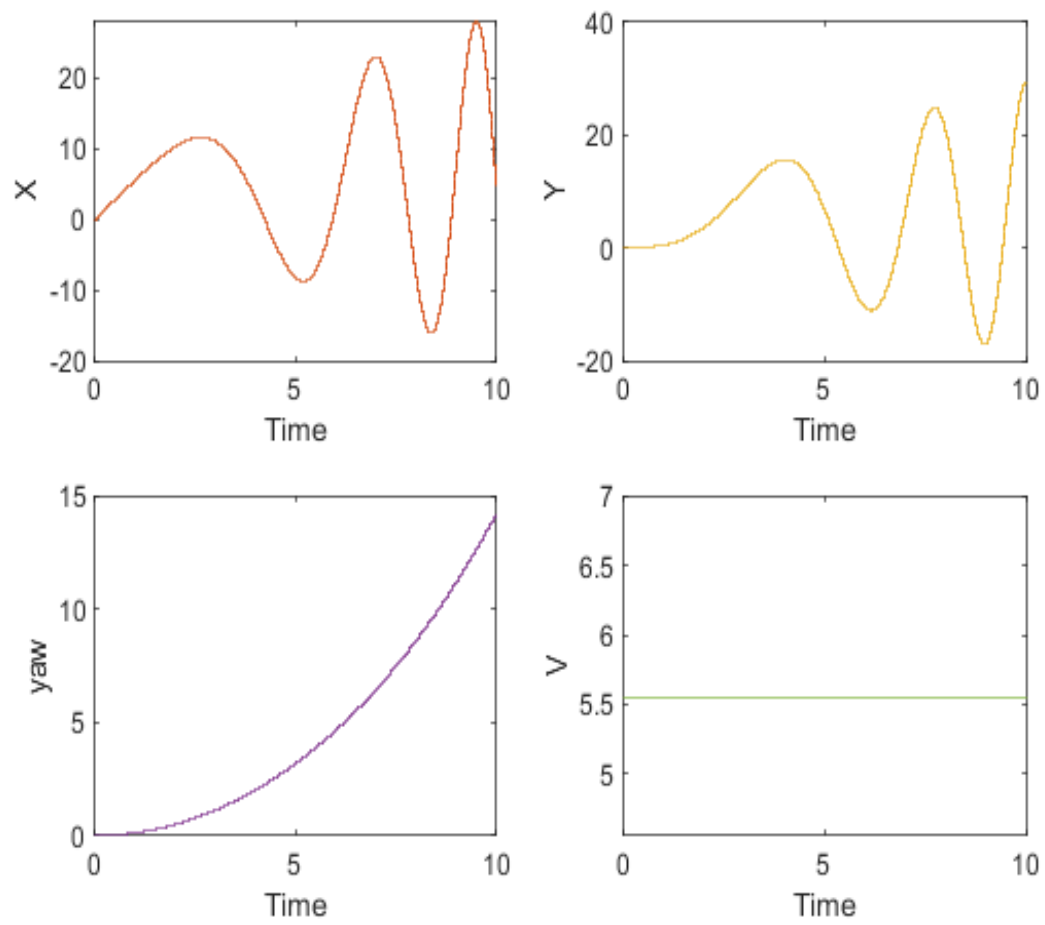
Model: Model_compare_SLX
Harness: Model_comparison_kinematic

Harness Owner: Model_compare_SLX/Kinematic_model
 Simulation Mode: normal
 Override SIL or PIL Mod 0
 e:
 Configuration Set: Configuration1
 External Input Name: Ramp_steering.mat
 External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Ramp_steering.mat
 Start Time: 0
 Stop Time: 10
 Checksum: 2799456273 4233424247 1463475084 743274136

Simulation Output

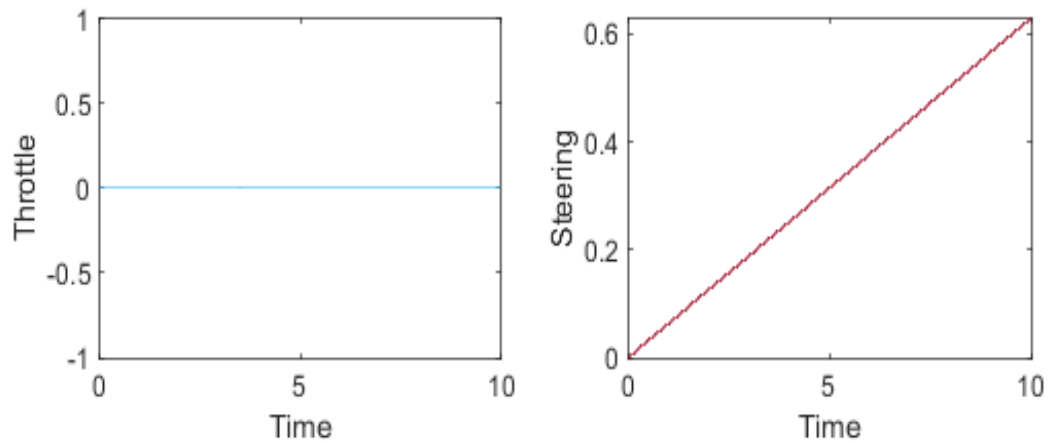
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		0.001	zoh	union	Link
Y	double		0.001	zoh	union	Link
yaw	double		0.001	zoh	union	Link
V	double		0.001	zoh	union	Link
Throttle	double		0.001	zoh	union	Link
Steering	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		0.001	zoh	union
Y	double		0.001	zoh	union
yaw	double		0.001	zoh	union
V	double		0.001	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
Throttle	double		0.001	zoh	union
Steering	double		0.001	zoh	union



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Small sinusoidal steering

Test Result Information

Result Type: Test Iteration Result
 Parent: [Comparison Tests](#)
 Start Time: 16-Apr-2021 16:11:55

End Time: 16-Apr-2021 16:12:00
Outcome: **Failed**
Cause of Failure: **Failed criteria: Equivalence**
Description:

Small sinusoidal steering Test performed keeping the throttle equal to 0 and giving a sinusoidal steering angle signal with frequency 0.2Hz and amplitude 5°

Test Case Information





Name: Small sinusoidal steering
Type: Equivalence Test

Iteration Settings

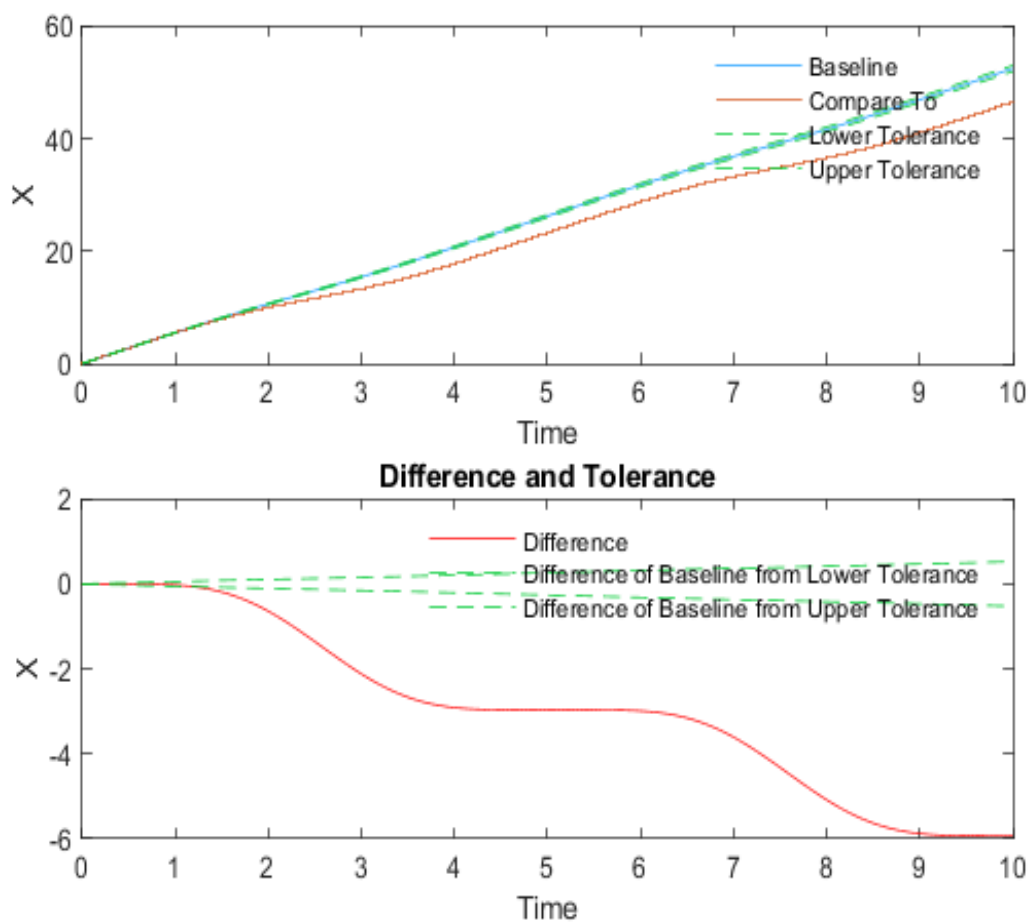
Test Overrides

Parameter Name	Value	Simulation Index
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Small_sinusoidal_steering.mat	1
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Small_sinusoidal_steering.mat	2

Equivalence Comparison

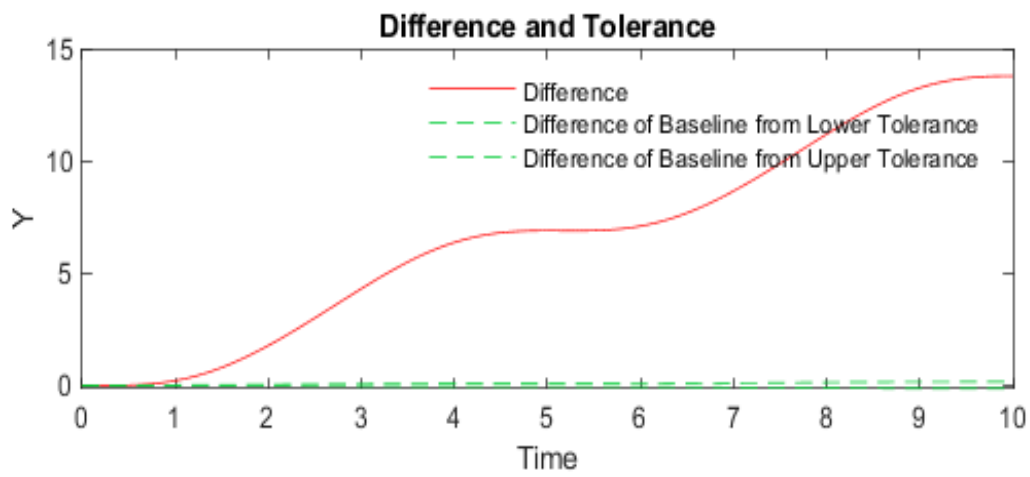
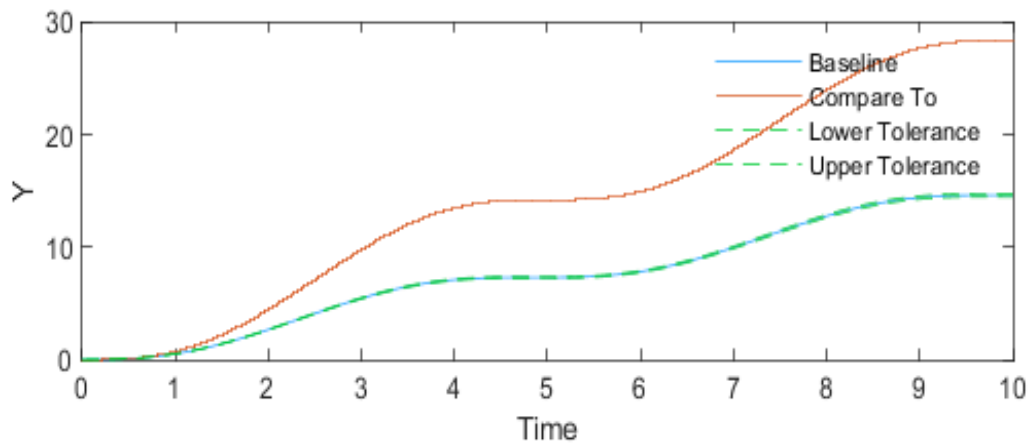
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
 X	0	0.01	0	0	5.94	double		Continuous	double		0.001	linear	union	Link
 Y	0	0.01	0	0	13.8	double		Continuous	double		0.001	linear	union	Link
 yaw	0	0.01	0	0	0.273	double		Continuous	double		0.001	linear	union	Link
 V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union	Link

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ X	0	0.01	0	0	5.94	double		Continuous	double		0.001	linear	union



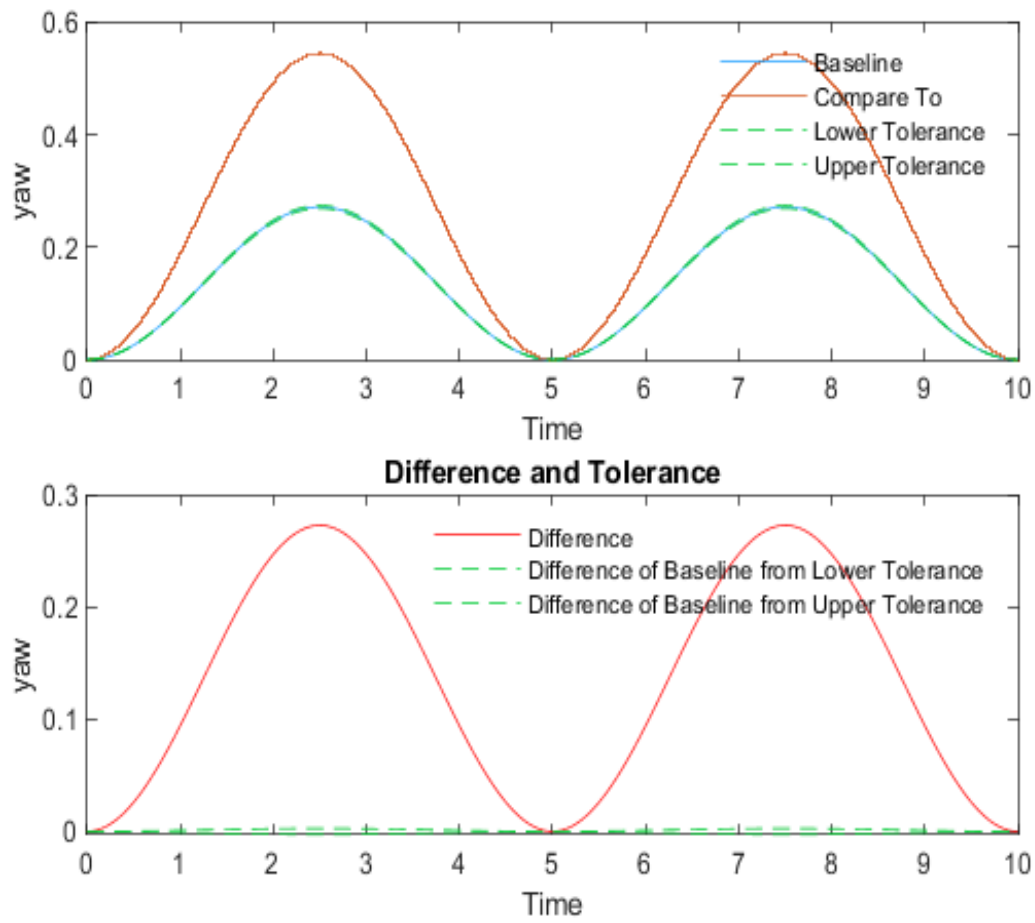
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ Y	0	0.01	0	0	13.8	double		Continuous	double		0.001	linear	union



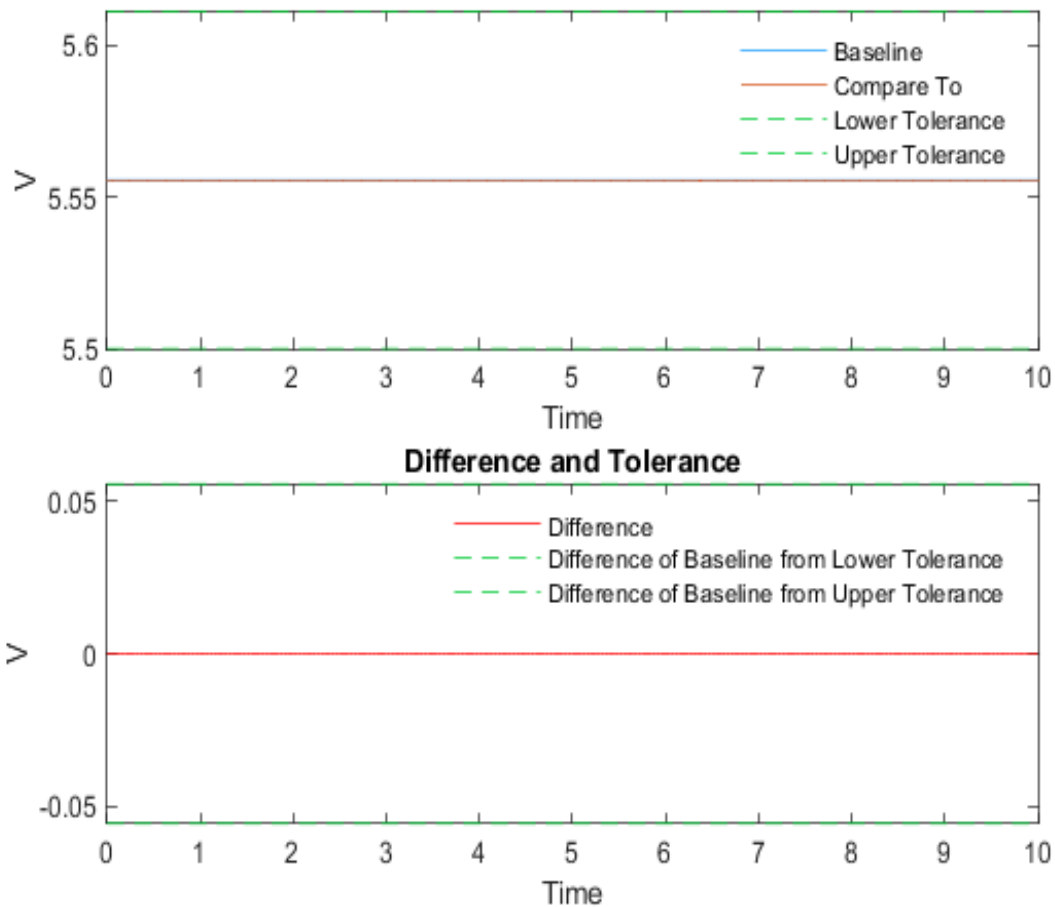
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ yaw	0	0.01	0	0	0.273	double		Continuous	double		0.001	linear	union



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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union



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Input Data 1

Input Information

External Input Name: Small_sinusoidal_steering.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Small_sinusoidal_steering.mat

Input Data 2

Input Information

External Input Name: Small_sinusoidal_steering.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Small_sinusoidal_steering.mat

Simulation 1

System Under Test Information

Model: Model_compare_SLX

Harness: Model_comparison_dynamic

Harness Owner: Model_compare_SLX/Dynamic_model

Simulation Mode: normal

Override SIL or PIL Mode:

Configuration Set: Configuration1

External Input Name: Small_sinusoidal_steering.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Small_sinusoidal_steering.mat

Start Time: 0

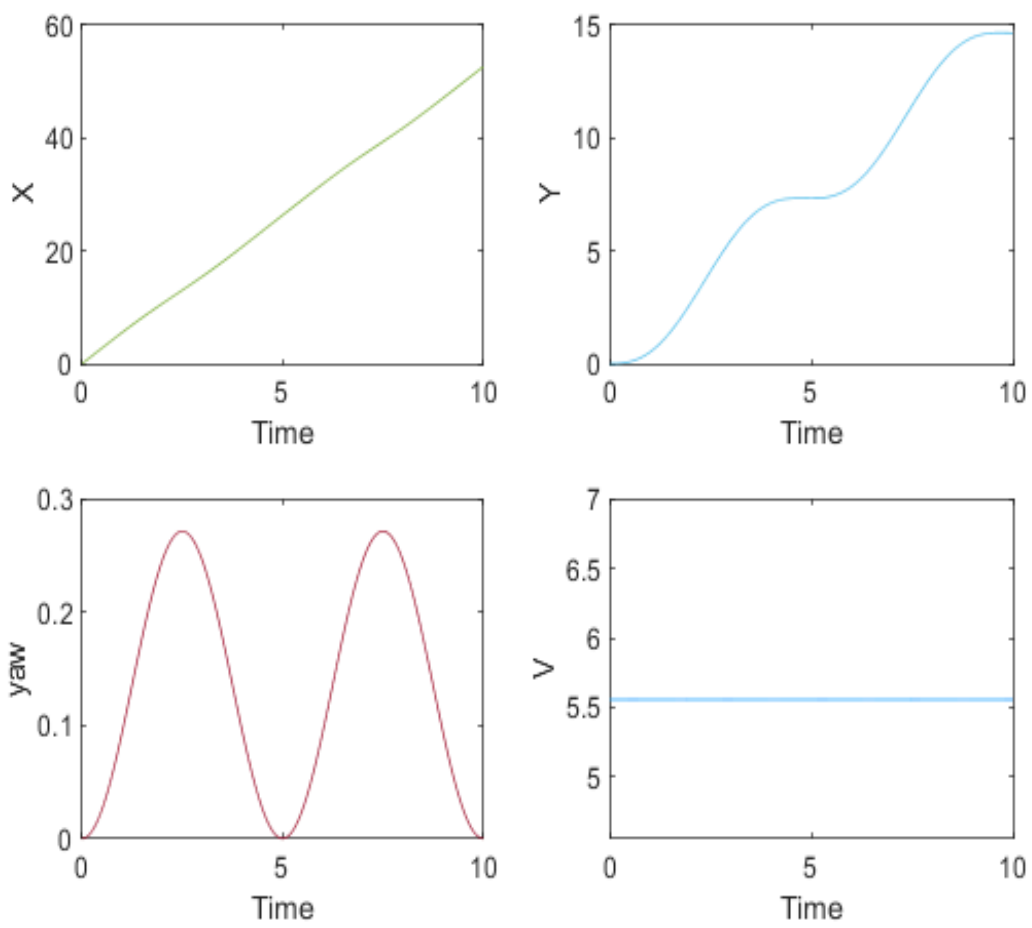
Stop Time: 10

Checksum: 4152128412 1859814811 142259360 3035885348

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		Continuous	linear	union	Link
Y	double		Continuous	linear	union	Link
yaw	double		Continuous	linear	union	Link
V	double		Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		Continuous	linear	union
Y	double		Continuous	linear	union
yaw	double		Continuous	linear	union
V	double		Continuous	linear	union



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Simulation 2

System Under Test Information

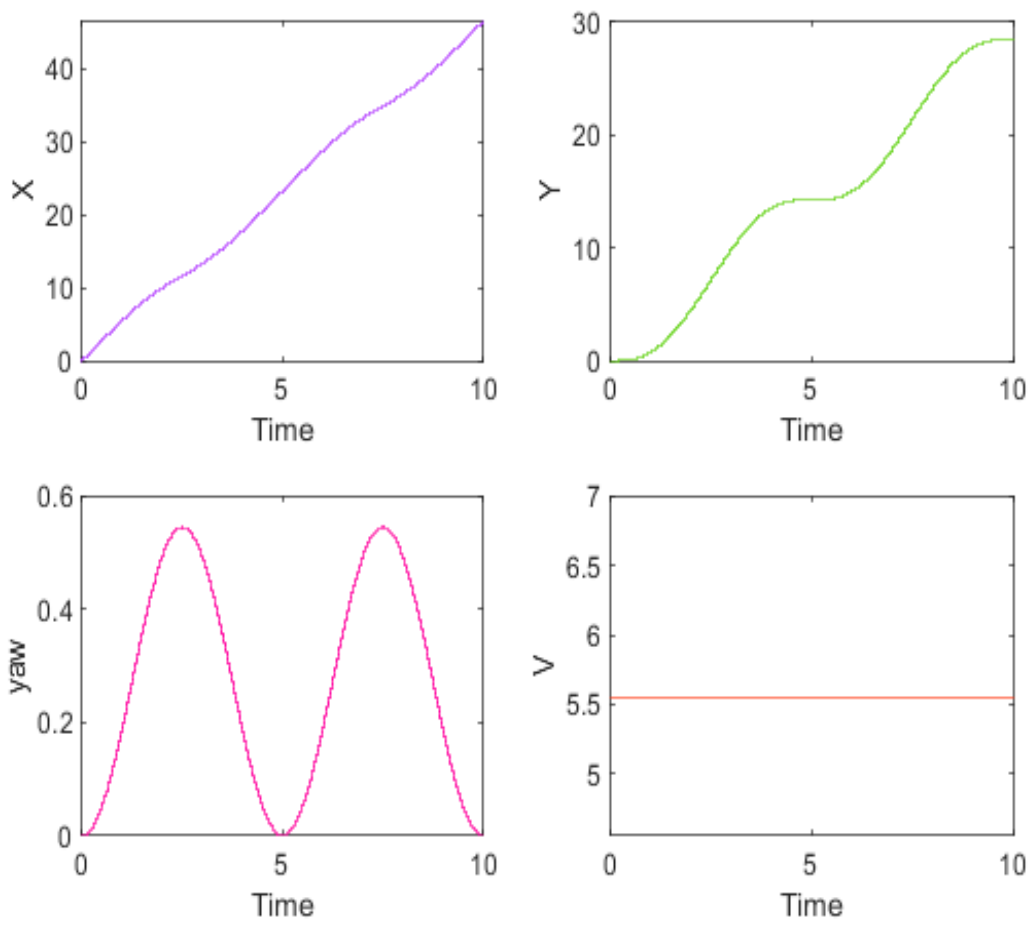
Model: Model_compare_SLX
Harness: Model_comparison_kinematic

Harness Owner: Model_compare_SLX/Kinematic_model
 Simulation Mode: normal
 Override SIL or PIL Mod 0
 e:
 Configuration Set: Configuration1
 External Input Name: Small_sinusoidal_steering.mat
 External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Small_sinusoidal_steering.mat
 Start Time: 0
 Stop Time: 10
 Checksum: 2799456273 4233424247 1463475084 743274136

Simulation Output

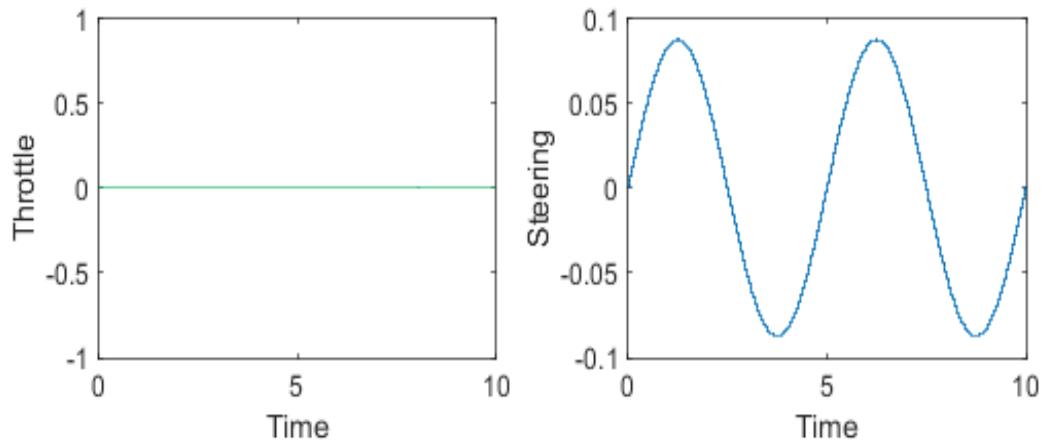
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		0.001	zoh	union	Link
Y	double		0.001	zoh	union	Link
yaw	double		0.001	zoh	union	Link
V	double		0.001	zoh	union	Link
Throttle	double		0.001	zoh	union	Link
Steering	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		0.001	zoh	union
Y	double		0.001	zoh	union
yaw	double		0.001	zoh	union
V	double		0.001	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
Throttle	double		0.001	zoh	union
Steering	double		0.001	zoh	union



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Big sinusoidal steering

Test Result Information

Result Type: Test Iteration Result
Parent: [Comparison Tests](#)
Start Time: 16-Apr-2021 16:12:00

End Time: 16-Apr-2021 16:12:06
 Outcome: **Failed**
 Cause of Failure: **Failed criteria: Equivalence**
 Description:

Big sinusoidal steering Test performed keeping the throttle equal to 0 and giving a sinusoidal steering angle signal with frequency 0.2Hz and amplitude 15°

Test Case Information





Name: Big sinusoidal steering
 Type: Equivalence Test

Iteration Settings

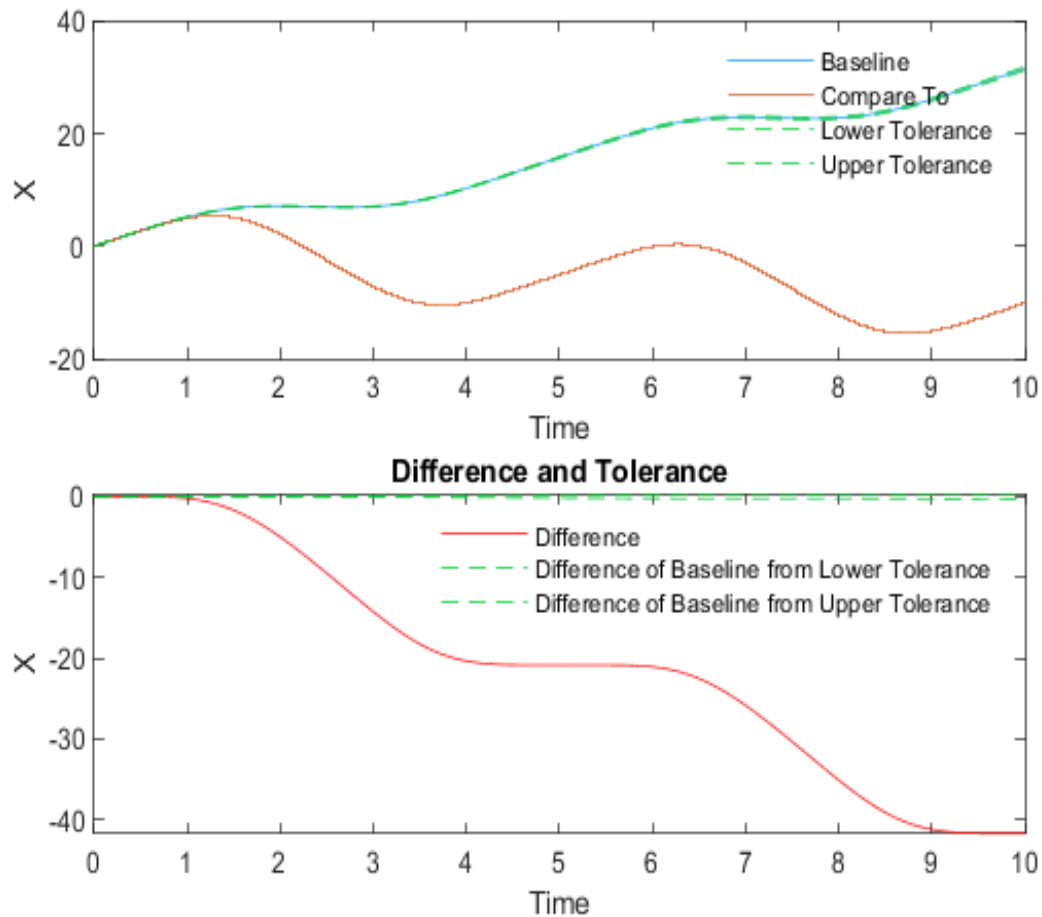
Test Overrides

Parameter Name	Value	Simulation Index
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Big_sinusoidal_steering.mat	1
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Big_sinusoidal_steering.mat	2

Equivalence Comparison

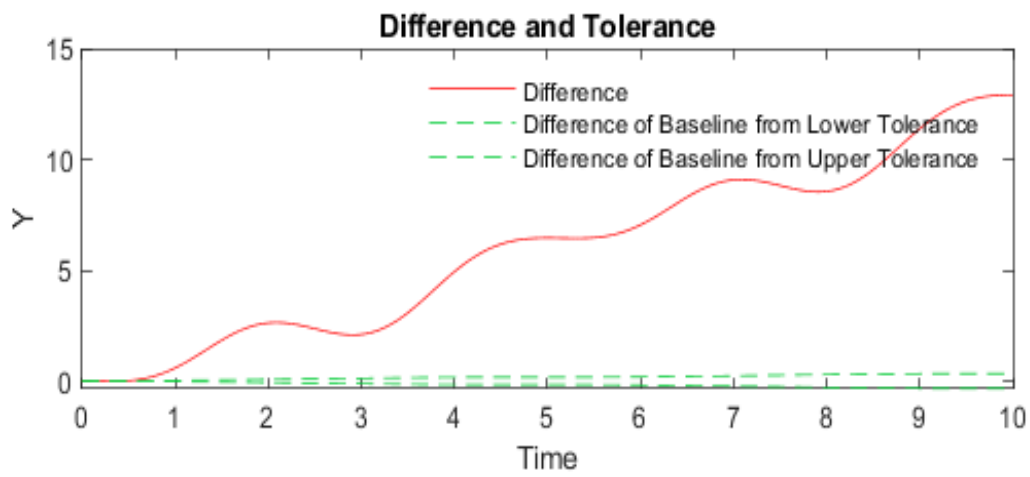
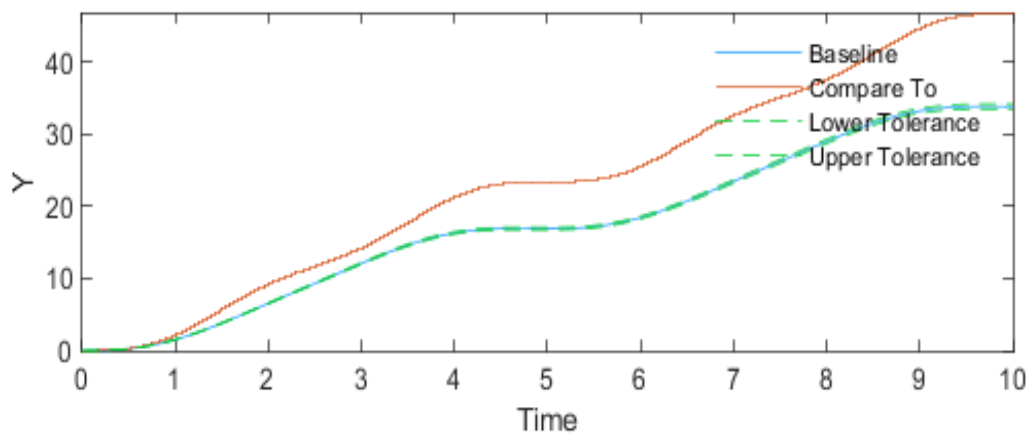
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
 X	0	0.01	0	0	41.7	double		Continuous	double		0.001	linear	union	Link
 Y	0	0.01	0	0	12.9	double		Continuous	double		0.001	linear	union	Link
 yaw	0	0.01	0	0	0.86	double		Continuous	double		0.001	linear	union	Link
 V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union	Link

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ X	0	0.01	0	0	41.7	double		Continuous	double		0.001	linear	union



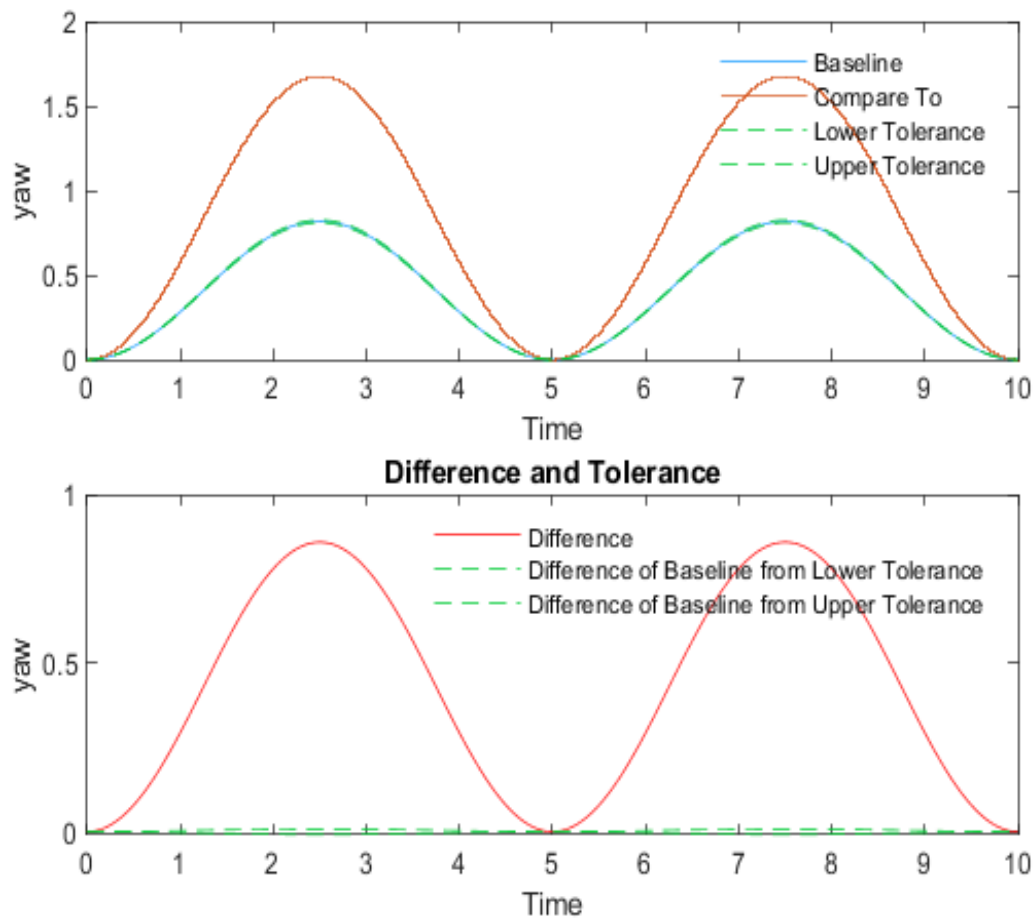
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ Y	0	0.01	0	0	12.9	double		Continuous	double		0.001	linear	union



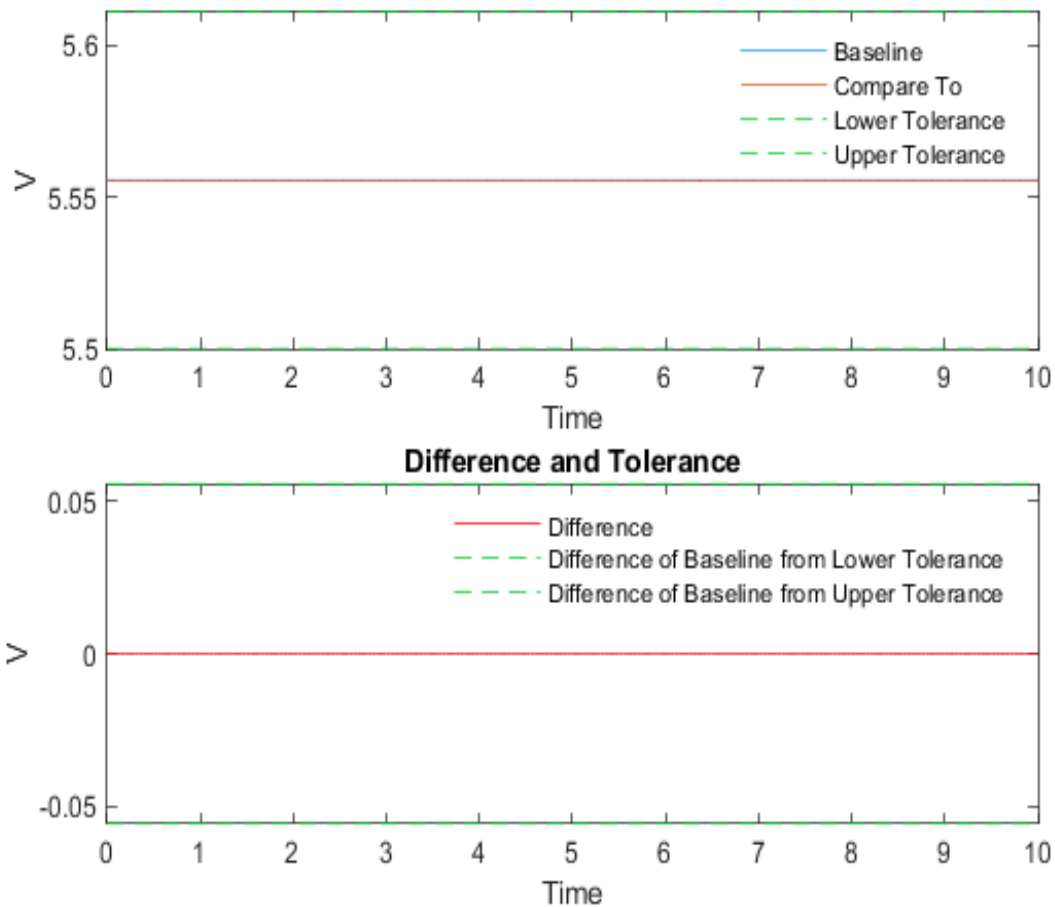
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ yaw	0	0.01	0	0	0.86	double		Continuous	double		0.001	linear	union



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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union



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Input Data 1

Input Information

External Input Name: Big_sinusoidal_steering.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Big_sinusoidal_steering.mat

Input Data 2

Input Information

External Input Name: Big_sinusoidal_steering.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Big_sinusoidal_steering.mat

Simulation 1

System Under Test Information

Model: Model_compare_SLX

Harness: Model_comparison_dynamic

Harness Owner: Model_compare_SLX/Dynamic_model

Simulation Mode: normal

Override SIL or PIL Mode:

Configuration Set: Configuration1

External Input Name: Big_sinusoidal_steering.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Big_sinusoidal_steering.mat

Start Time: 0

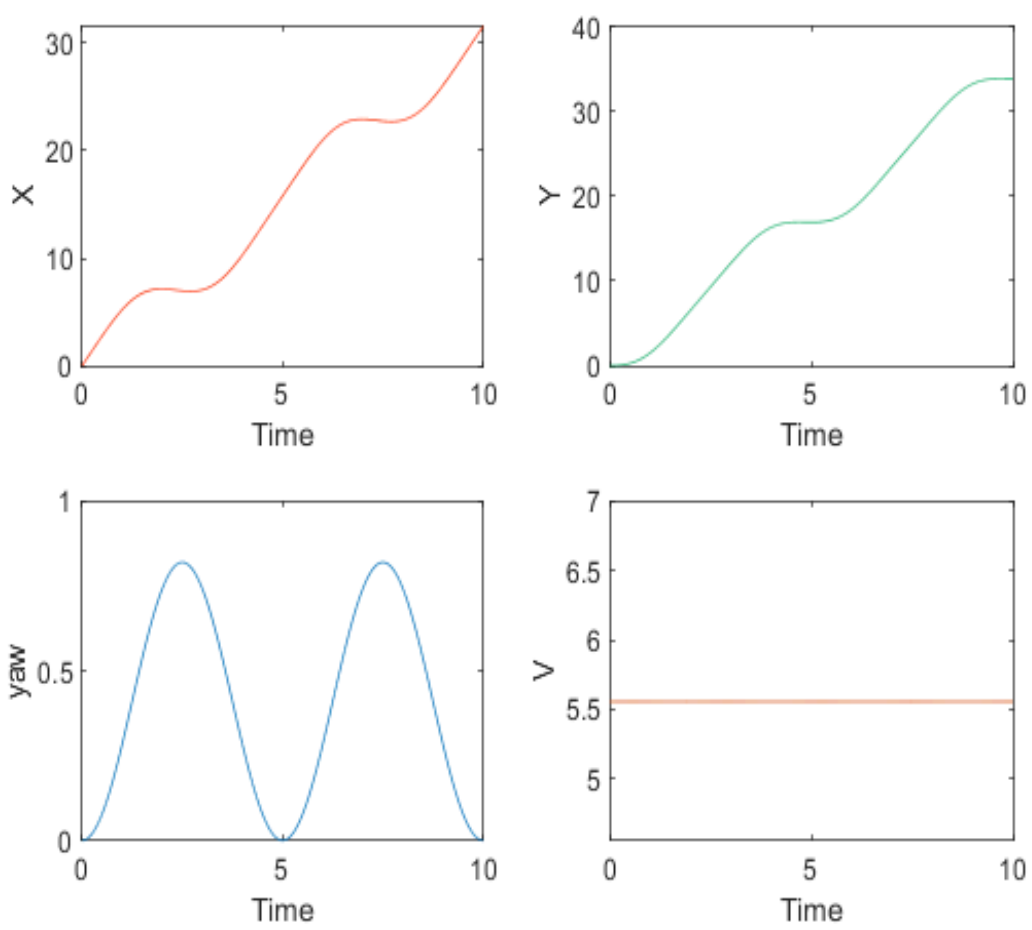
Stop Time: 10

Checksum: 4152128412 1859814811 142259360 3035885348

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		Continuous	linear	union	Link
Y	double		Continuous	linear	union	Link
yaw	double		Continuous	linear	union	Link
V	double		Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		Continuous	linear	union
Y	double		Continuous	linear	union
yaw	double		Continuous	linear	union
V	double		Continuous	linear	union



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Simulation 2

System Under Test Information

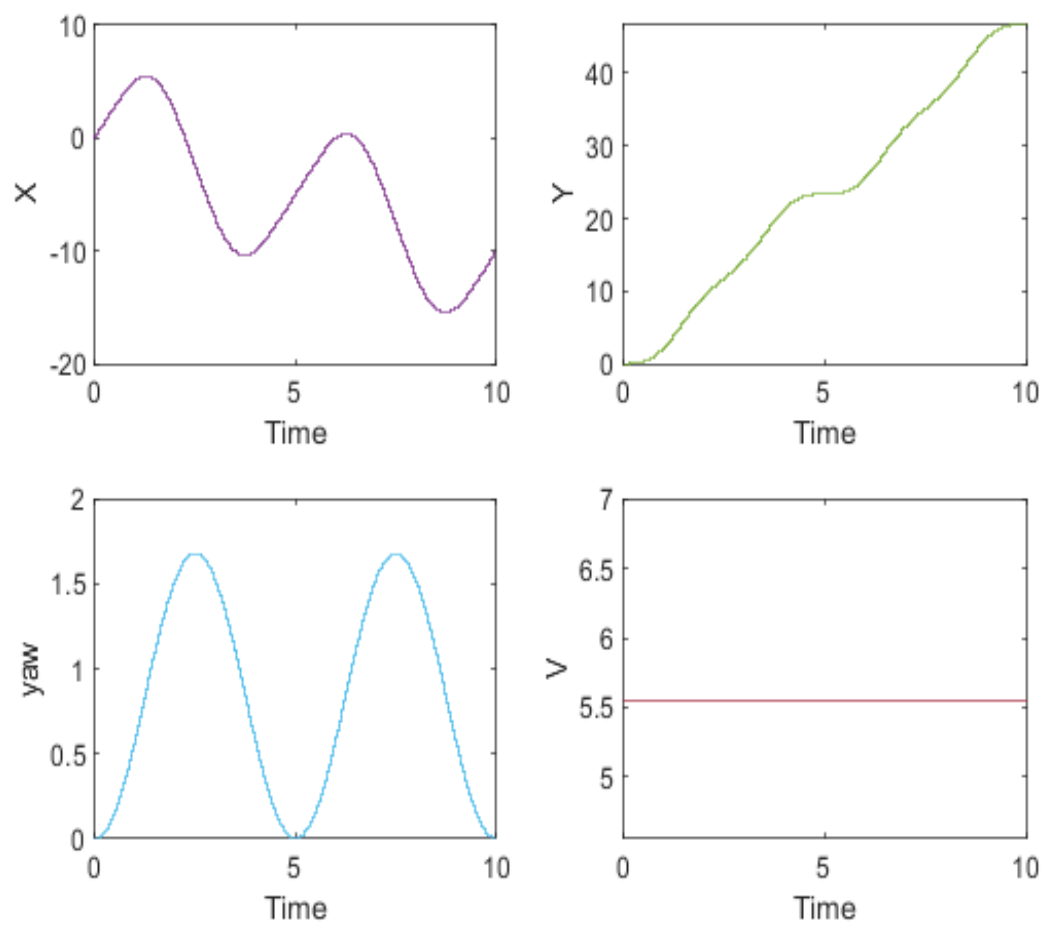
Model: Model_compare_SLX
Harness: Model_comparison_kinematic

Harness Owner: Model_compare_SLX/Kinematic_model
 Simulation Mode: normal
 Override SIL or PIL Mod 0
 e:
 Configuration Set: Configuration1
 External Input Name: Big_sinusoidal_steering.mat
 External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Big_sinusoidal_steering.mat
 Start Time: 0
 Stop Time: 10
 Checksum: 2799456273 4233424247 1463475084 743274136

Simulation Output

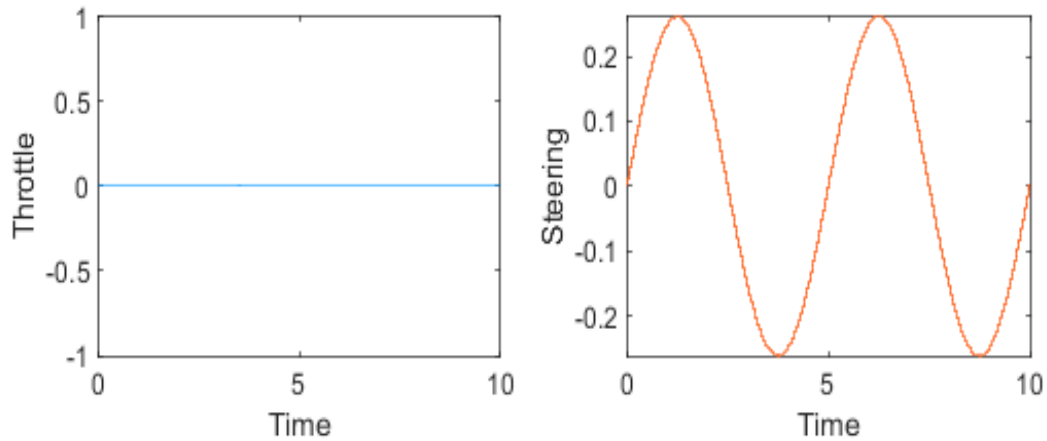
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		0.001	zoh	union	Link
Y	double		0.001	zoh	union	Link
yaw	double		0.001	zoh	union	Link
V	double		0.001	zoh	union	Link
Throttle	double		0.001	zoh	union	Link
Steering	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		0.001	zoh	union
Y	double		0.001	zoh	union
yaw	double		0.001	zoh	union
V	double		0.001	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
Throttle	double		0.001	zoh	union
Steering	double		0.001	zoh	union



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Combined 1

Test Result Information

Result Type: Test Iteration Result
Parent: [Comparison Tests](#)
Start Time: 16-Apr-2021 16:12:06

End Time: 16-Apr-2021 16:12:11
 Outcome: **Failed**
 Cause of Failure: **Failed criteria: Equivalence**
 Description:

Combined 1

Throttle signal with a predefined shape and constant steering angle

Test Case Information





Name: Combined 1
 Type: Equivalence Test

Iteration Settings

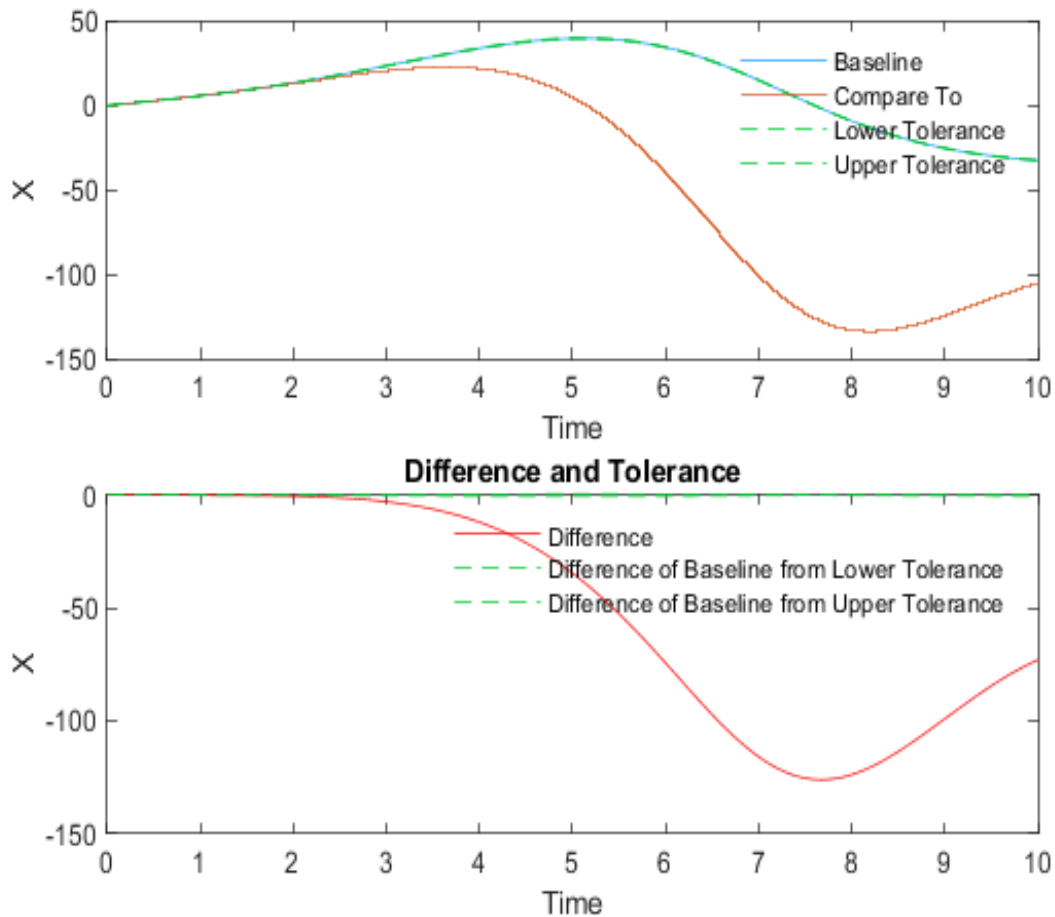
Test Overrides

Parameter Name	Value	Simulation Index
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Combined1.mat	1
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Combined1.mat	2

Equivalence Comparison

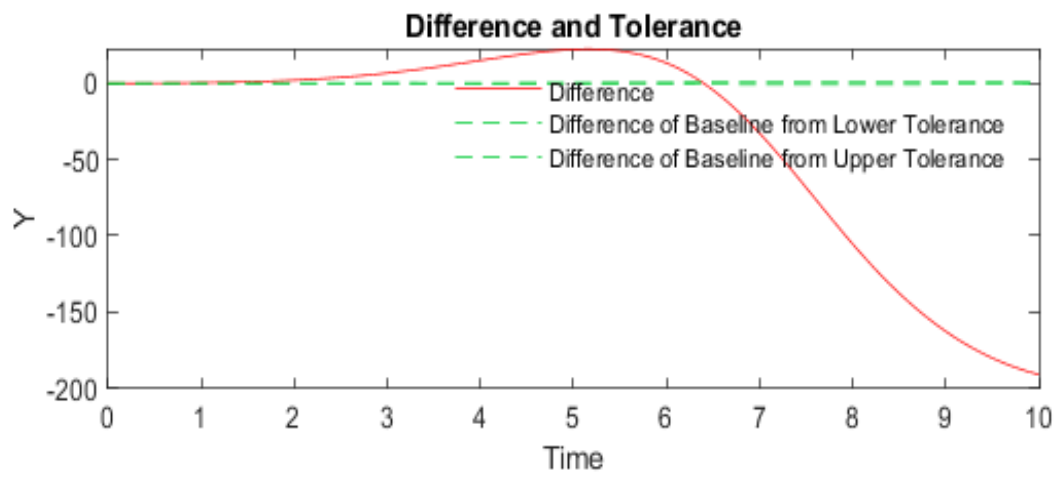
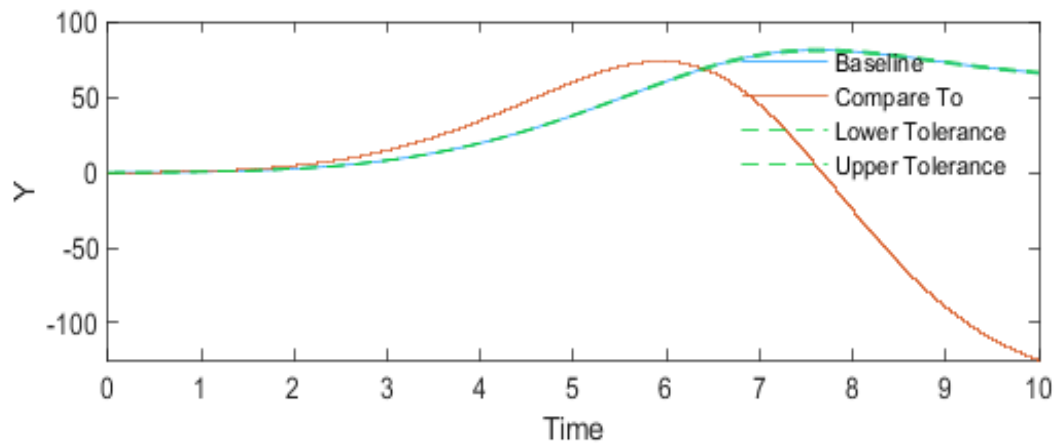
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
 X	0	0.01	0	0	126	double		Continuous	double		0.001	linear	union	Link
 Y	0	0.01	0	0	191	double		Continuous	double		0.001	linear	union	Link
 yaw	0	0.01	0	0	2.01	double		Continuous	double		0.001	linear	union	Link
 V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union	Link

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ X	0	0.01	0	0	126	double		Continuous	double		0.001	linear	union



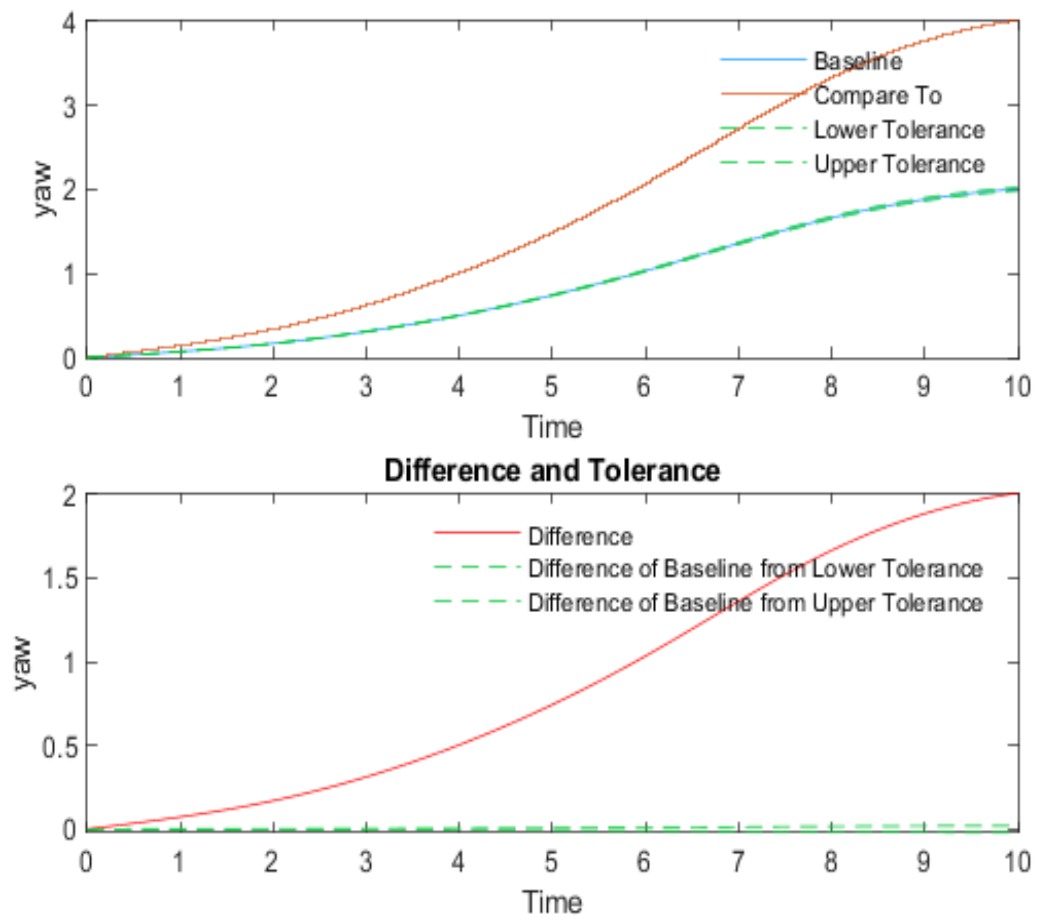
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ Y	0	0.01	0	0	191	double		Continuous	double		0.001	linear	union



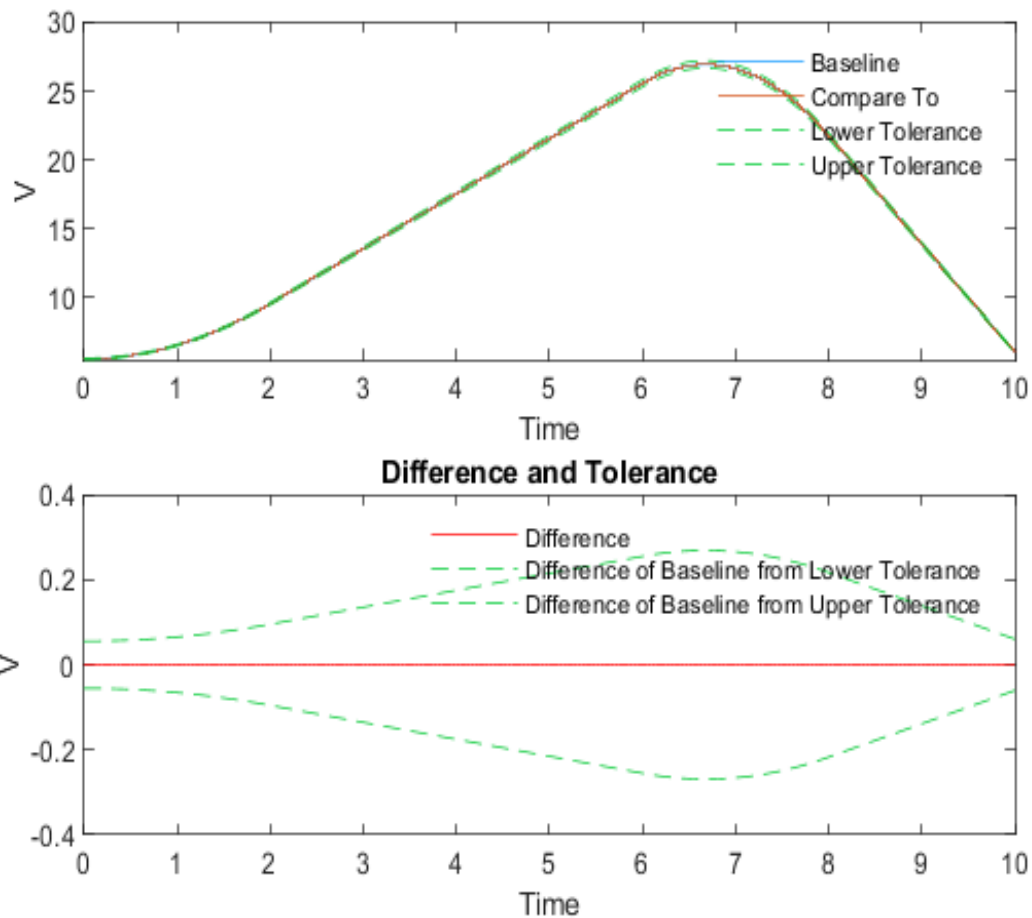
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ yaw	0	0.01	0	0	2.01	double		Continuous	double		0.001	linear	union



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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ V	0	0.01	0	0	0	double		Continuous	double		0.001	linear	union



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Input Data 1

Input Information

External Input Name: Combined1.mat

me:

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Combined1.mat

Input Data 2

Input Information

External Input Name: Combined1.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Combined1.mat

Simulation 1

System Under Test Information

Model: Model_compare_SLX

Harness: Model_comparison_dynamic

Harness Owner: Model_compare_SLX/Dynamic_model

Simulation Mode: normal

Override SIL or PIL Mode:

Configuration Set: Configuration1

External Input Name: Combined1.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Combined1.mat

Start Time: 0

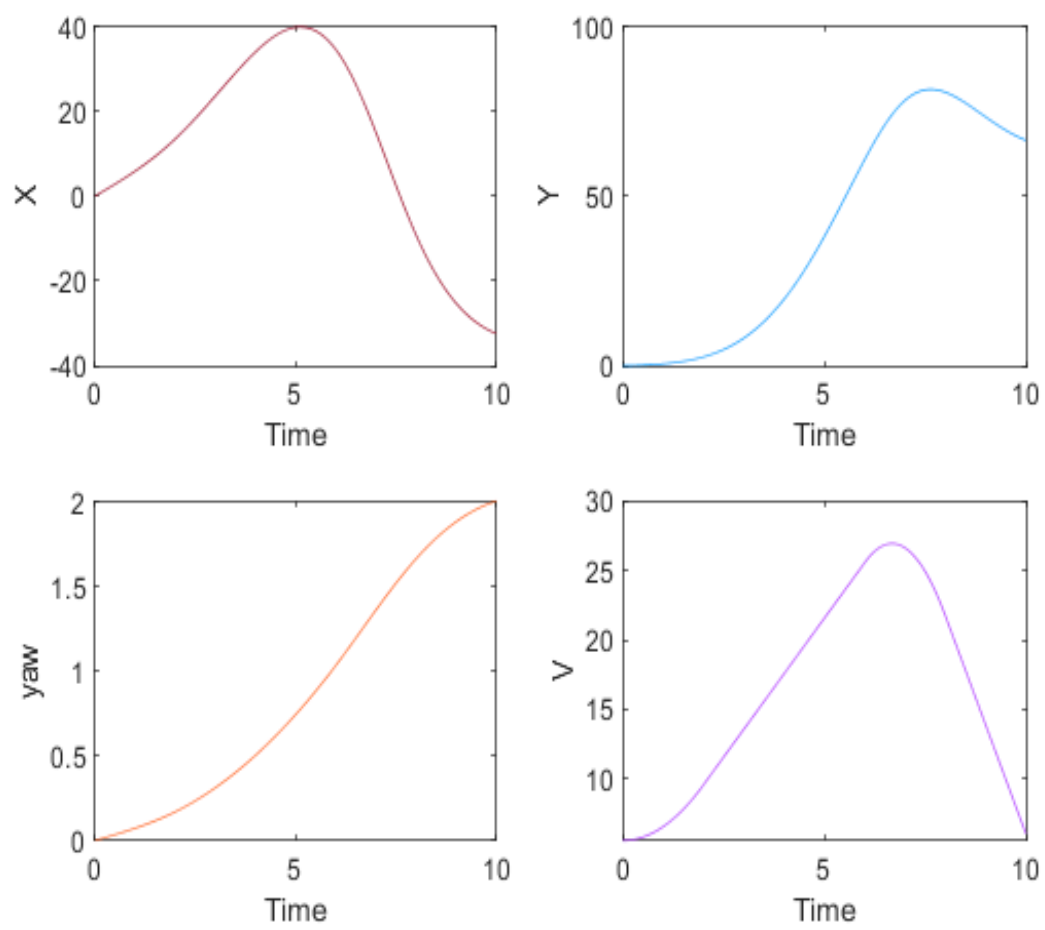
Stop Time: 10

Checksum: 4152128412 1859814811 142259360 3035885348

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		Continuous	linear	union	Link
Y	double		Continuous	linear	union	Link
yaw	double		Continuous	linear	union	Link
V	double		Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		Continuous	linear	union
Y	double		Continuous	linear	union
yaw	double		Continuous	linear	union
V	double		Continuous	linear	union



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Simulation 2

System Under Test Information

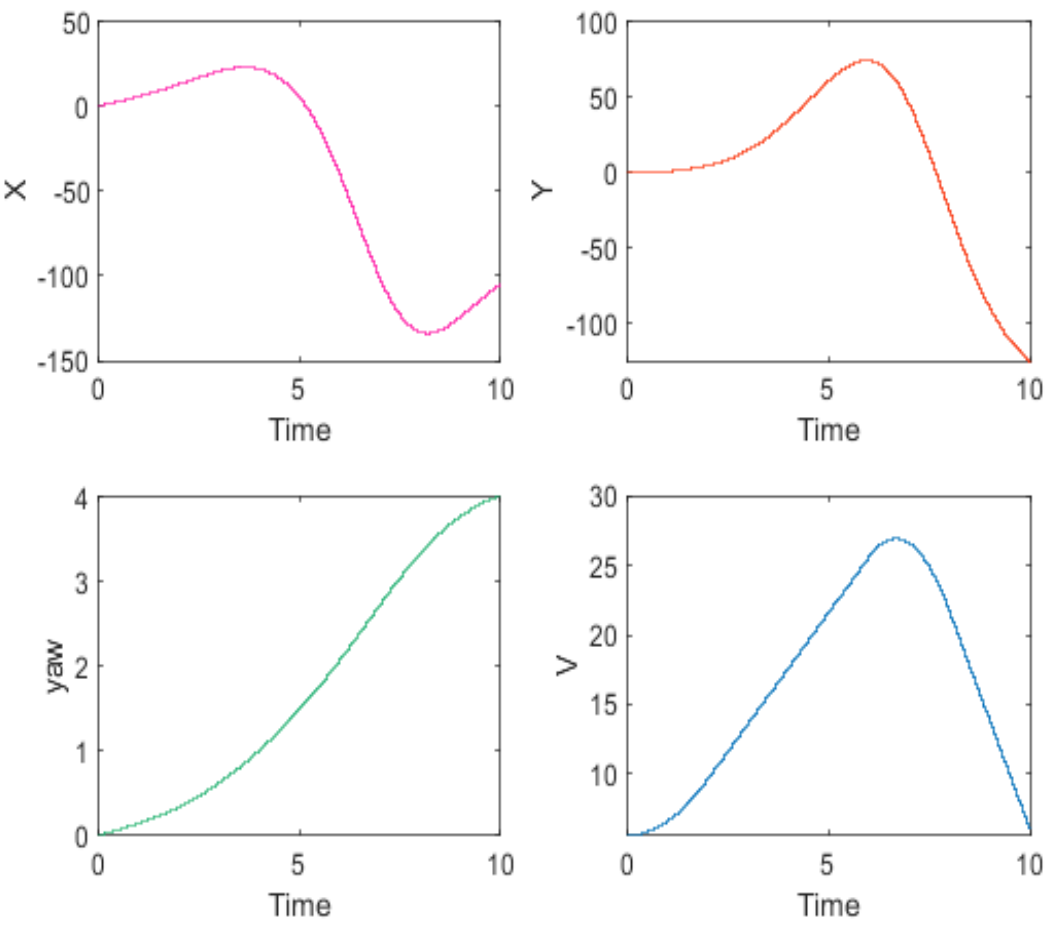
Model: Model_compare_SLX
Harness: Model_comparison_kinematic

Harness Owner: Model_compare_SLX/Kinematic_model
 Simulation Mode: normal
 Override SIL or PIL Mod 0
 e:
 Configuration Set: Configuration1
 External Input Name: Combined1.mat
 External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Combined1.mat
 Start Time: 0
 Stop Time: 10
 Checksum: 2799456273 4233424247 1463475084 743274136

Simulation Output

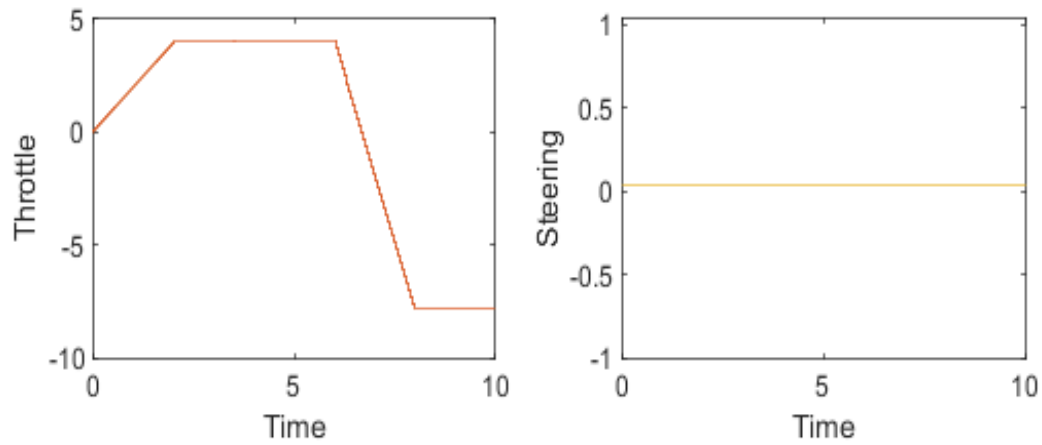
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		0.001	zoh	union	Link
Y	double		0.001	zoh	union	Link
yaw	double		0.001	zoh	union	Link
V	double		0.001	zoh	union	Link
Throttle	double		0.001	zoh	union	Link
Steering	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		0.001	zoh	union
Y	double		0.001	zoh	union
yaw	double		0.001	zoh	union
V	double		0.001	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
Throttle	double		0.001	zoh	union
Steering	double		0.001	zoh	union



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Combined 2

Test Result Information

Result Type: Test Iteration Result
 Parent: [Comparison Tests](#)
 Start Time: 16-Apr-2021 16:12:11

End Time: 16-Apr-2021 16:12:16
Outcome: **Failed**
Cause of Failure: **Failed criteria: Equivalence**
Description:

Combined 2

Ramp steering angle signal with a constant throttle

Test Case Information





Name: Combined 2
Type: Equivalence Test

Iteration Settings

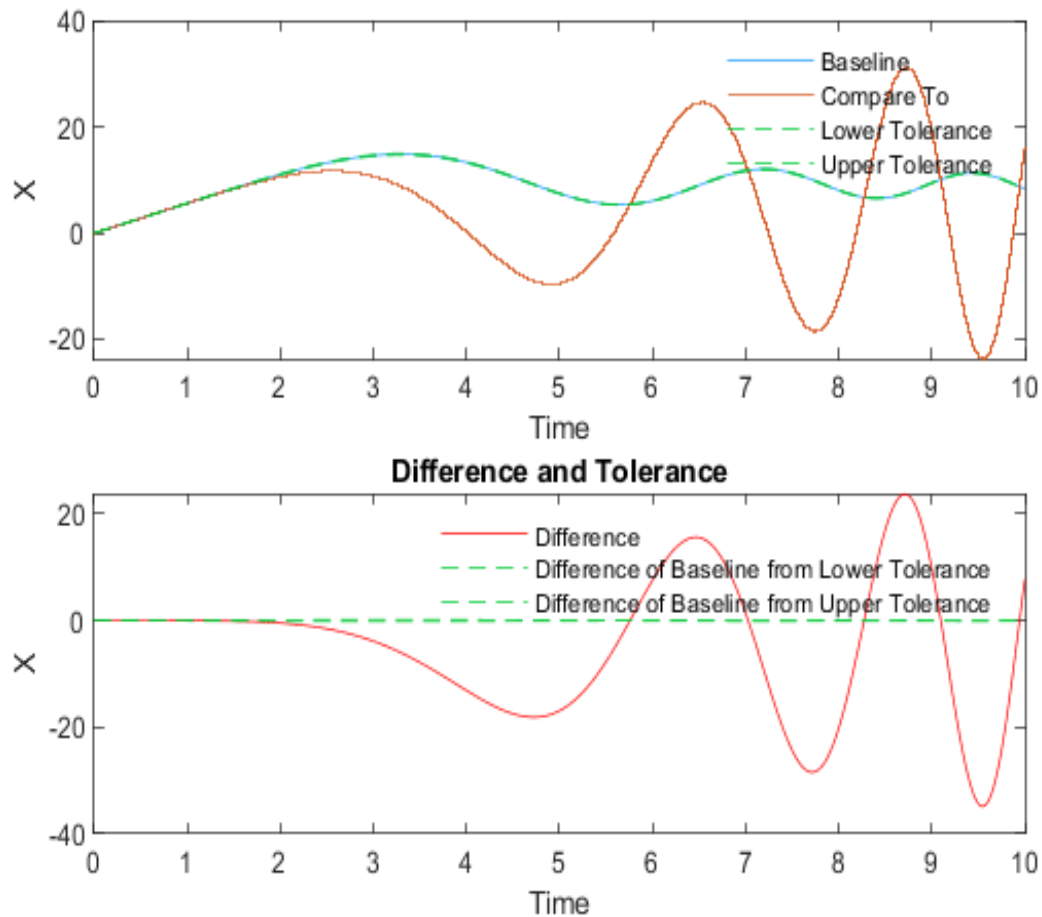
Test Overrides

Parameter Name	Value	Simulation Index
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Combined2.mat	1
ExternalInput	C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\Simulink Models\Combined2.mat	2

Equivalence Comparison

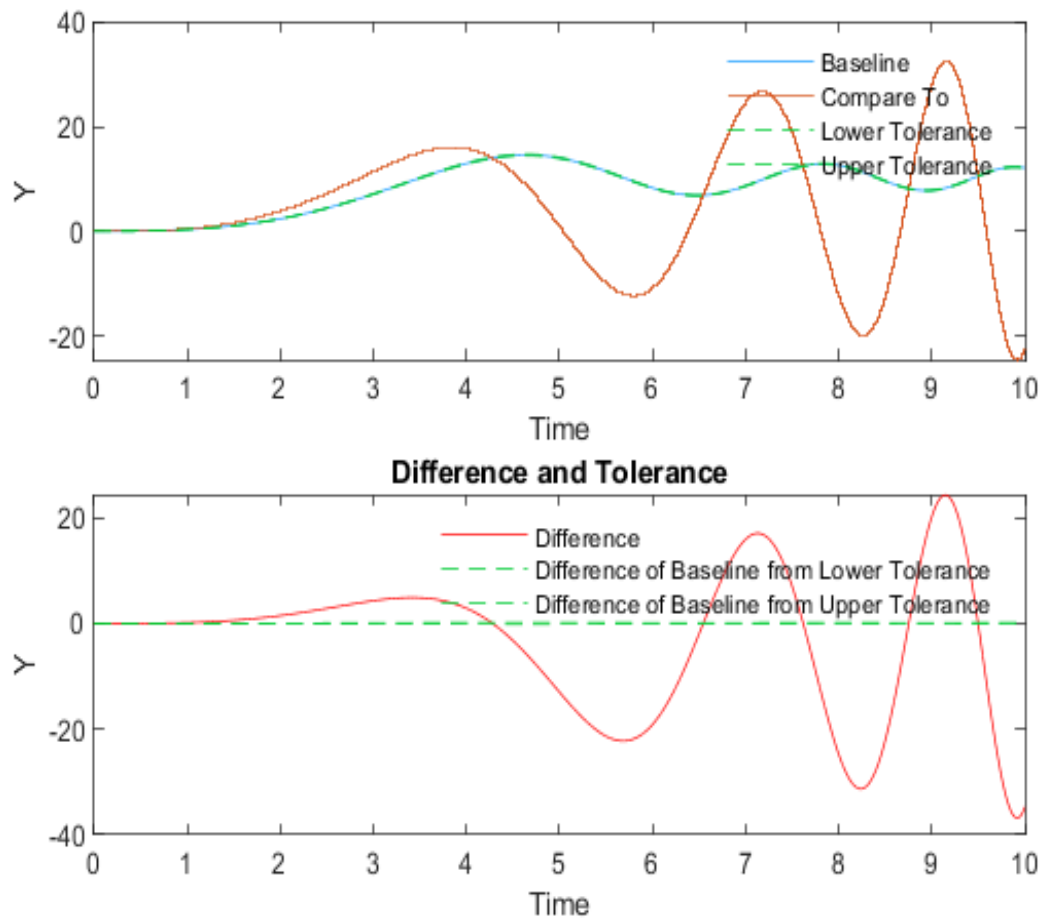
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
 X	0	0.01	0	0	34.9	double		Continuous	double		0.001	linear	union	Link
 Y	0	0.01	0	0	36.9	double		Continuous	double		0.001	linear	union	Link
 yaw	0	0.01	0	0	9.86	double		Continuous	double		0.001	linear	union	Link
 V	0	0.01	0	0	8.88e-16	double		Continuous	double		0.001	linear	union	Link

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ X	0	0.01	0	0	34.9	double		Continuous	double		0.001	linear	union



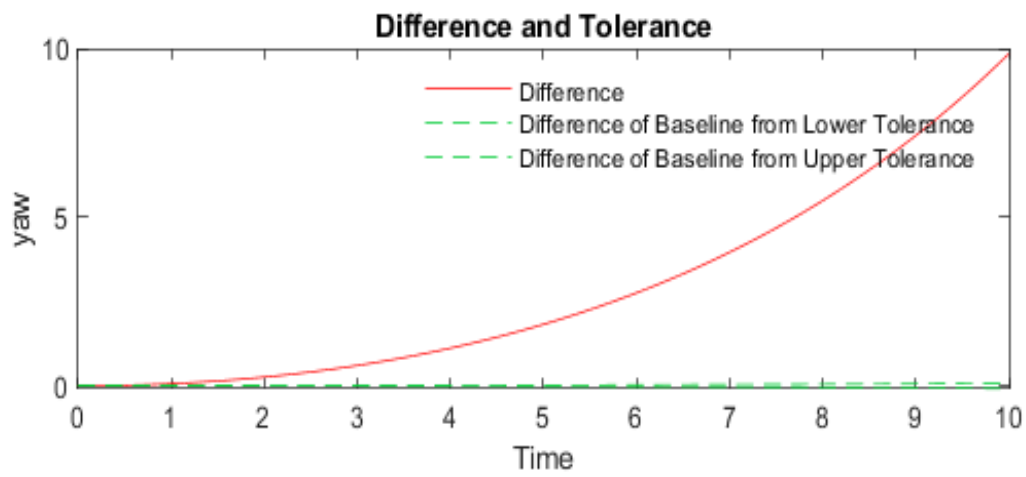
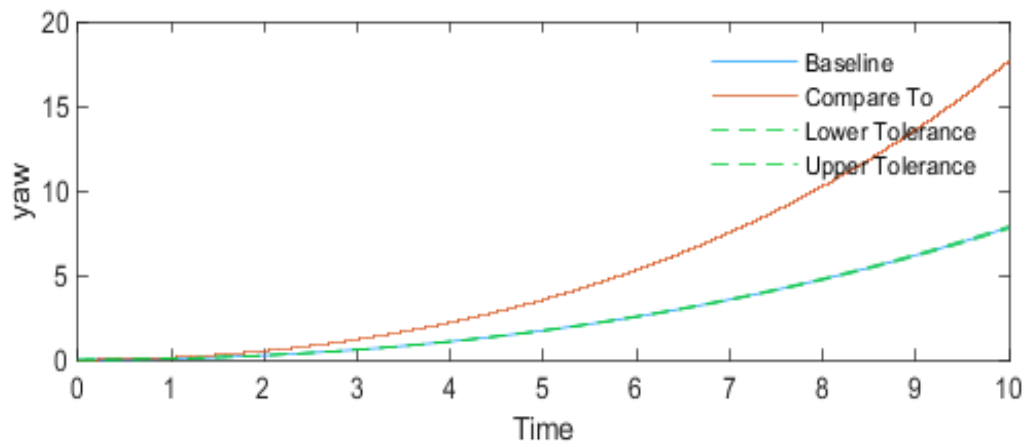
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ Y	0	0.01	0	0	36.9	double		Continuous	double		0.001	linear	union



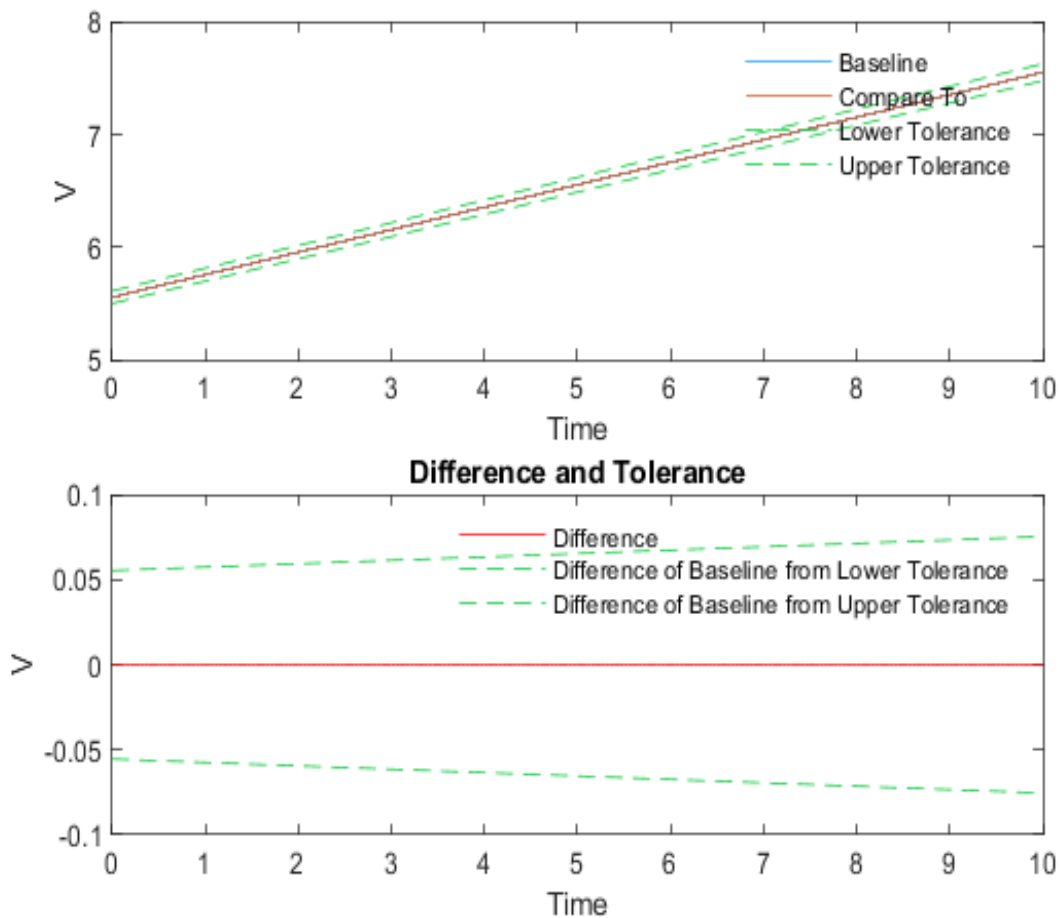
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✖ yaw	0	0.01	0	0	9.86	double		Continuous	double		0.001	linear	union



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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ V	0	0.01	0	0	8.88e-16	double		Continuous	double		0.001	linear	union



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Input Data 1

Input Information

External Input Name: Combined2.mat

me:

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Combined2.mat

Input Data 2

Input Information

External Input Name: Combined2.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Combined2.mat

Simulation 1

System Under Test Information

Model: Model_compare_SLX

Harness: Model_comparison_dynamic

Harness Owner: Model_compare_SLX/Dynamic_model

Simulation Mode: normal

Override SIL or PIL Mode:

Configuration Set: Configuration1

External Input Name: Combined2.mat

External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Combined2.mat

Start Time: 0

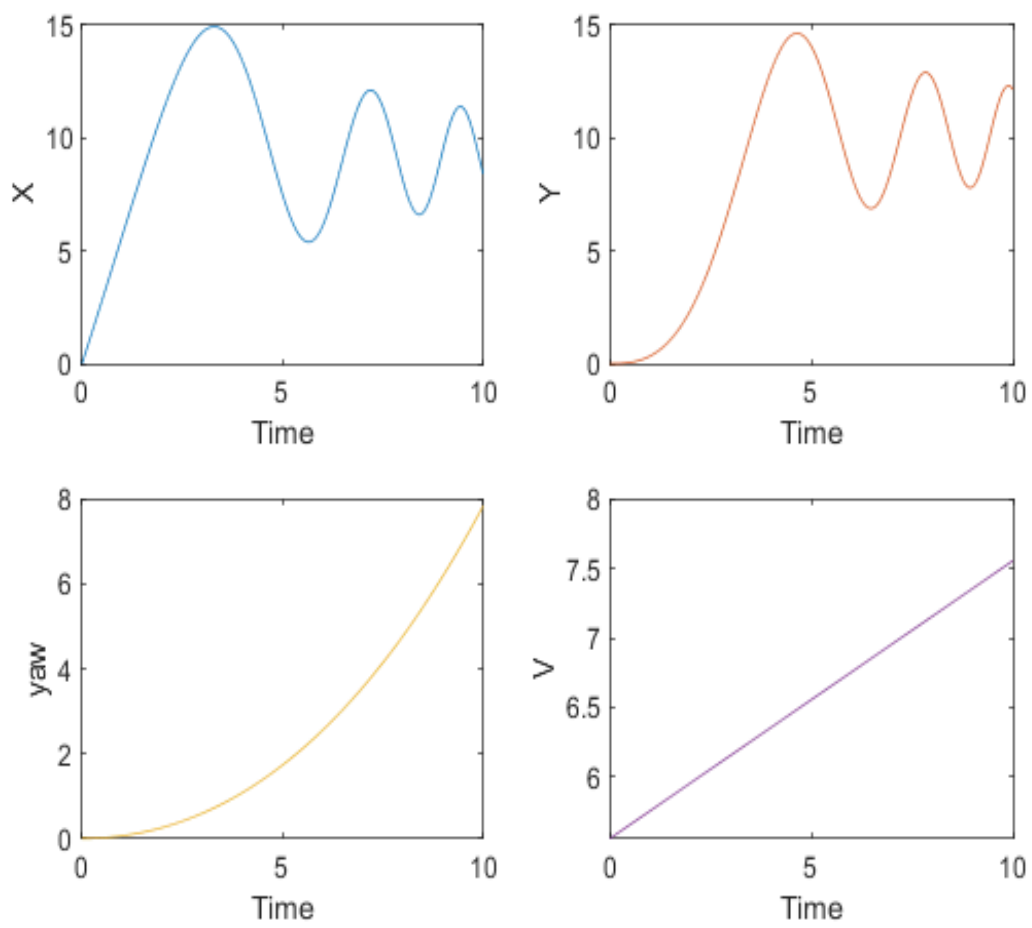
Stop Time: 10

Checksum: 4152128412 1859814811 142259360 3035885348

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		Continuous	linear	union	Link
Y	double		Continuous	linear	union	Link
yaw	double		Continuous	linear	union	Link
V	double		Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		Continuous	linear	union
Y	double		Continuous	linear	union
yaw	double		Continuous	linear	union
V	double		Continuous	linear	union



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Simulation 2

System Under Test Information

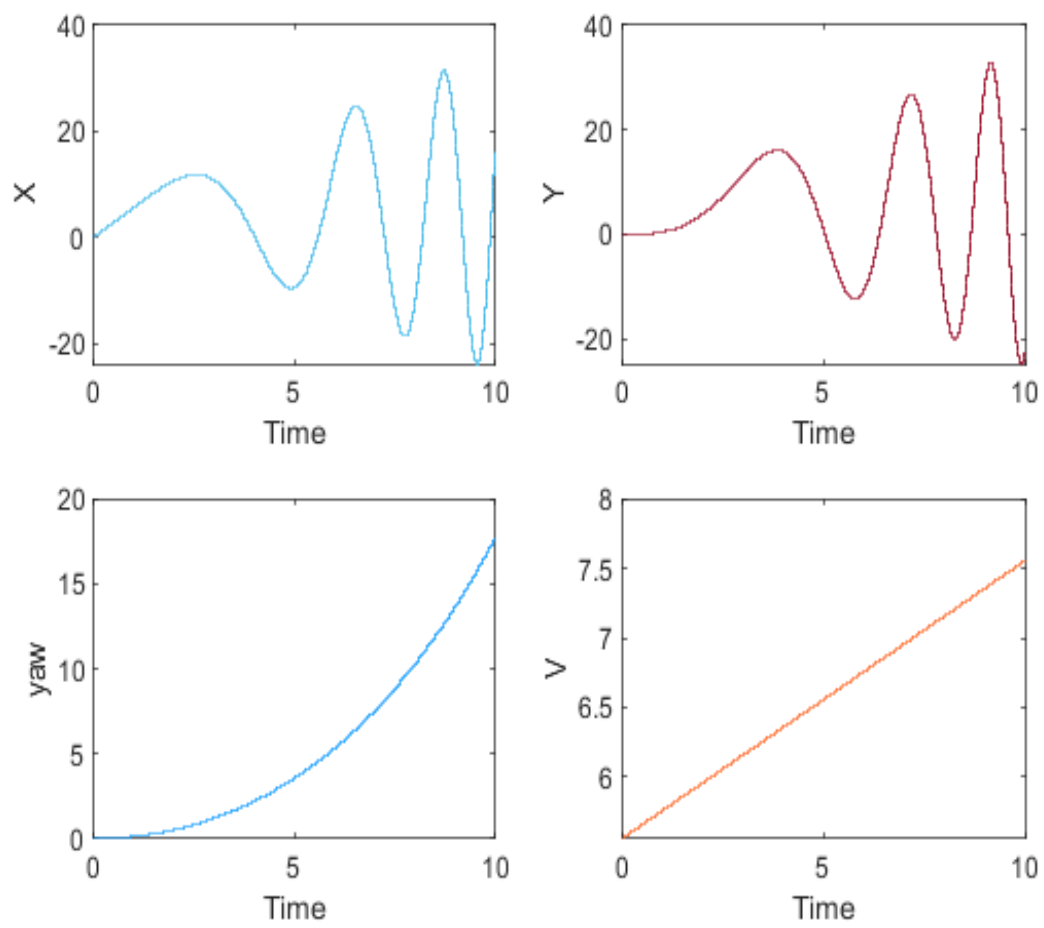
Model: Model_compare_SLX
Harness: Model_comparison_kinematic

Harness Owner: Model_compare_SLX/Kinematic_model
 Simulation Mode: normal
 Override SIL or PIL Mod 0
 e:
 Configuration Set: Configuration1
 External Input Name: Combined2.mat
 External Input File: C:\Users\gianv\Documents\GitHub\Compliance_test\Matlab scripts\SimulinkModels\Combined2.mat
 Start Time: 0
 Stop Time: 10
 Checksum: 2799456273 4233424247 1463475084 743274136

Simulation Output

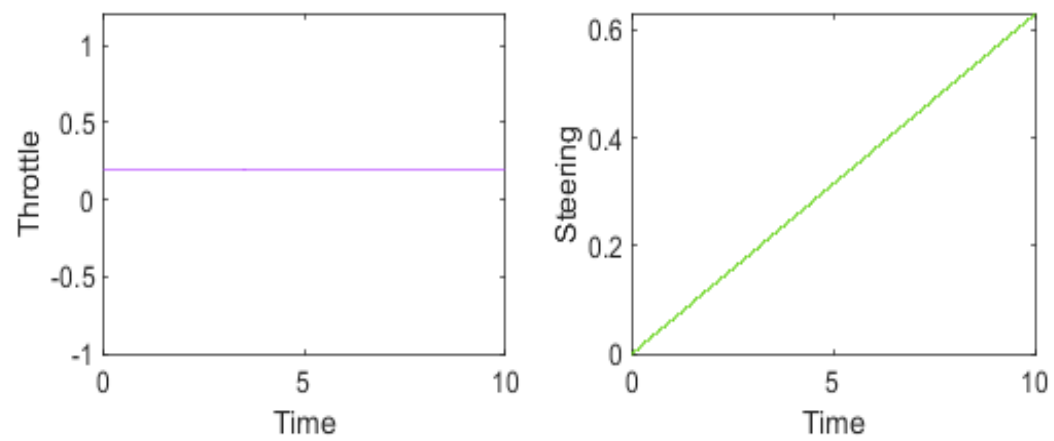
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		0.001	zoh	union	Link
Y	double		0.001	zoh	union	Link
yaw	double		0.001	zoh	union	Link
V	double		0.001	zoh	union	Link
Throttle	double		0.001	zoh	union	Link
Steering	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		0.001	zoh	union
Y	double		0.001	zoh	union
yaw	double		0.001	zoh	union
V	double		0.001	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
Throttle	double		0.001	zoh	union
Steering	double		0.001	zoh	union



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