

# Report Generated by Test Manager

**Title:** Husky G2G Test Report  
**Author:** Tanmay Samak and Chinmay Samak  
**Date:** 12-Mar-2025 16:21:13

## Test Environment

Platform: PCWIN64  
MATLAB: (R2024b)

Summary

Name	Outcome	Duration (Seconds)
<a href="#">Results: 2025-Mar-12 14:26:36</a>	6	6306.914
<a href="#">PathTracking</a>	6	6306.731
<a href="#">Iteration1</a>		971.627
<a href="#">Iteration2</a>		986.192
<a href="#">Iteration3</a>		966.31
<a href="#">Iteration4</a>		981.559
<a href="#">Iteration5</a>		947.363
<a href="#">Iteration6</a>		1453.52

## Results: 2025-Mar-12 14:26:36

Result Type: Result Set  
Parent: None  
Start Time: 12-Mar-2025 14:26:38  
End Time: 12-Mar-2025 16:11:45  
Outcome: Total: 6, Passed: 6

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## PathTracking

### Test Result Information

Result Type: Test Case Result  
Parent: [Results: 2025-Mar-12 14:26:36](#)  
Start Time: 12-Mar-2025 14:26:38  
End Time: 12-Mar-2025 16:11:45  
Outcome: Passed

### Test Case Information

Name: PathTracking  
Type: Baseline Test

### Test Case Requirements

Description: Path Tracking Reach goal  
Document: Requirements.slreqx

## Iteration1

### Test Result Information

Result Type: Test Iteration Result  
Parent: [PathTracking](#)  
Start Time: 12-Mar-2025 14:26:38  
End Time: 12-Mar-2025 14:42:50  
Outcome: Passed  
Description:

A\*

### Test Case Information

Name: Iteration1  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
ParameterSet	Parameter Set 1

### Simulation

#### System Under Test Information

Model: Husky\_G2G  
Release: Current  
Simulation Mode: normal  
Override SIL or PIL Mode: 0  
Configuration Set: Configuration  
Start Time: 0  
Stop Time: 963.20000000000005  
Checksum: 3259350194 667955774 4111217148 2598863743  
Simulink Version: 24.2  
Model Version: 2.20  
Model Author: tsamak  
Date: Wed Mar 12 14:19:45 2025  
User ID: tsamak  
Model Path: C:\Users\tsamak\Downloads\autodrive\_husky\_g2g\_mbse\Husky\_G2G.slx  
  
Machine Name: AUE-VKROVI-D8  
Solver Name: VariableStepDiscrete  
Solver Type: Variable-Step  
Max Step Size: 0.20000000000000001  
Simulation Start Time: 2025-03-12 14:26:40  
Simulation Stop Time: 2025-03-12 14:42:46  
Platform: PCWIN64

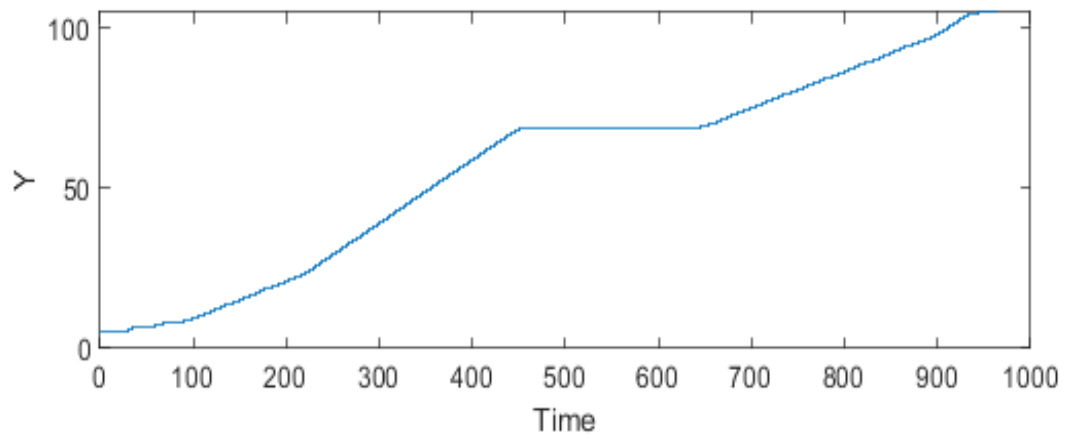
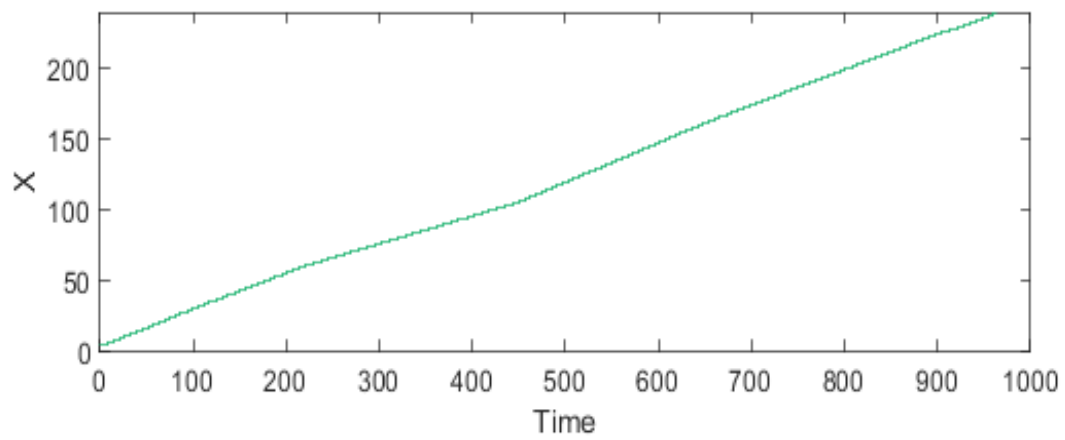
Parameter Overrides

Workspace Variable	Value	Source	Model Element
Parameter Set 1			
waypoints	236x2 double	DataDictionary.sld	MotionControl/Constant

Simulation Output

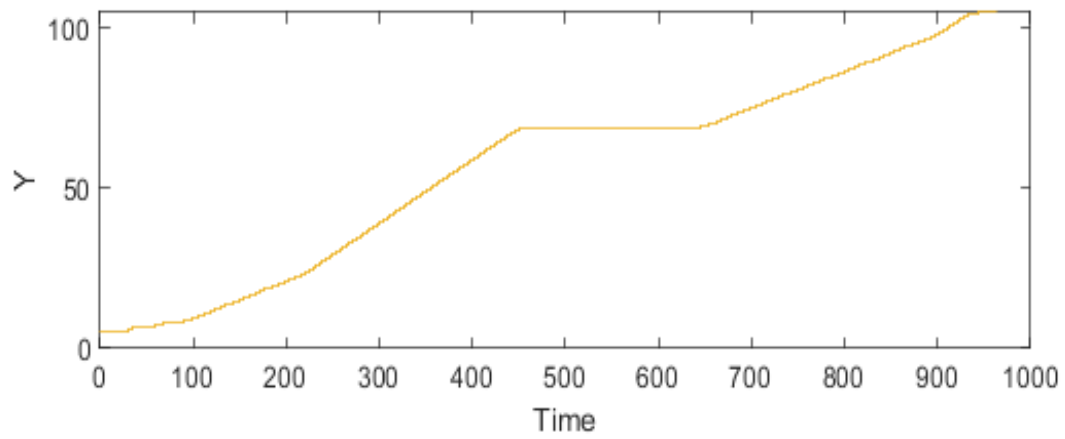
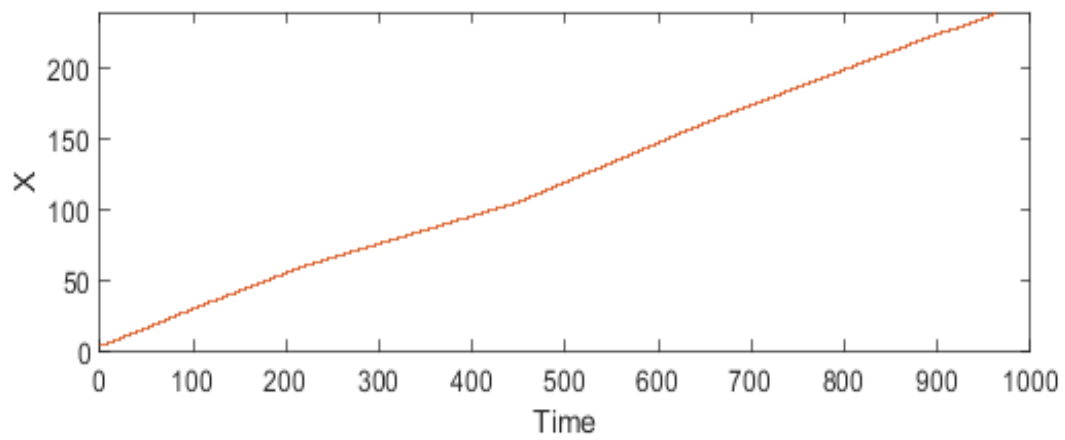
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
outputOfPurePursuit	double		Continuous	linear	union	<a href="#">Link</a>
currentPose(1)	double		1	zoh	union	<a href="#">Link</a>
currentPose(2)	double		1	zoh	union	<a href="#">Link</a>
currentPose(3)	double		1	zoh	union	<a href="#">Link</a>

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



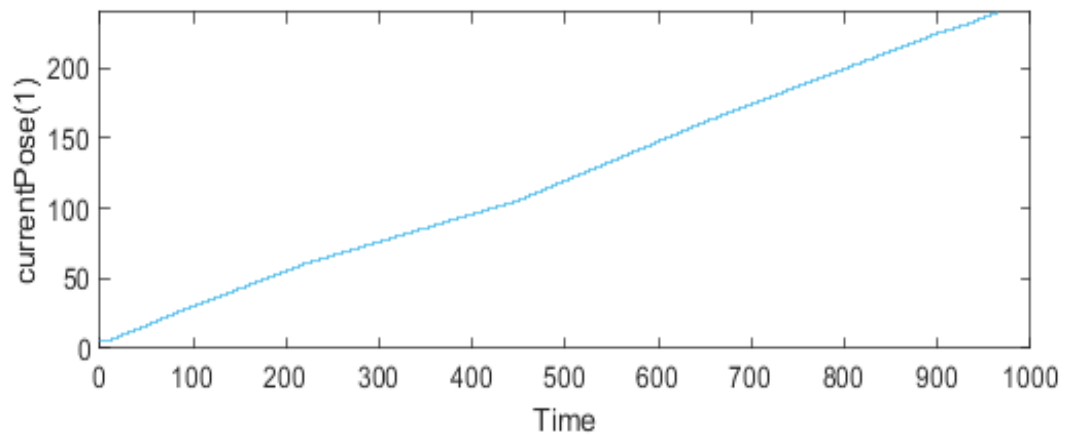
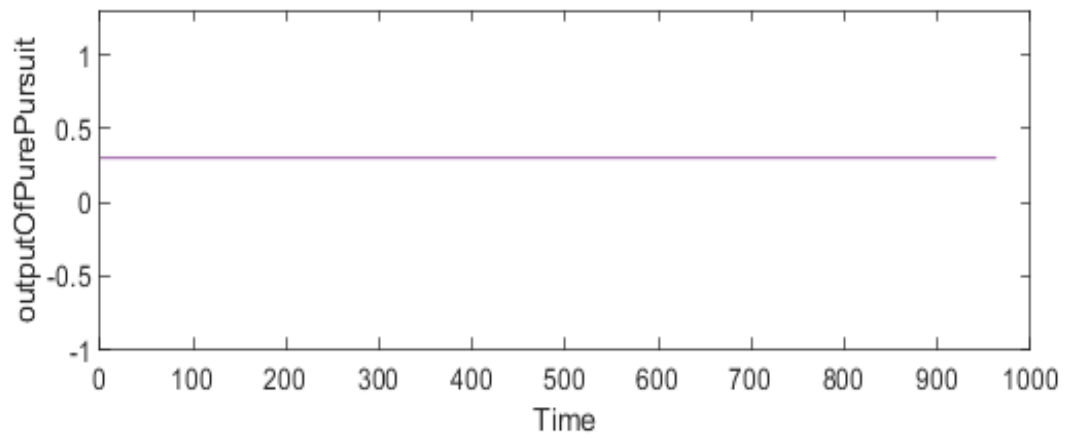
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Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



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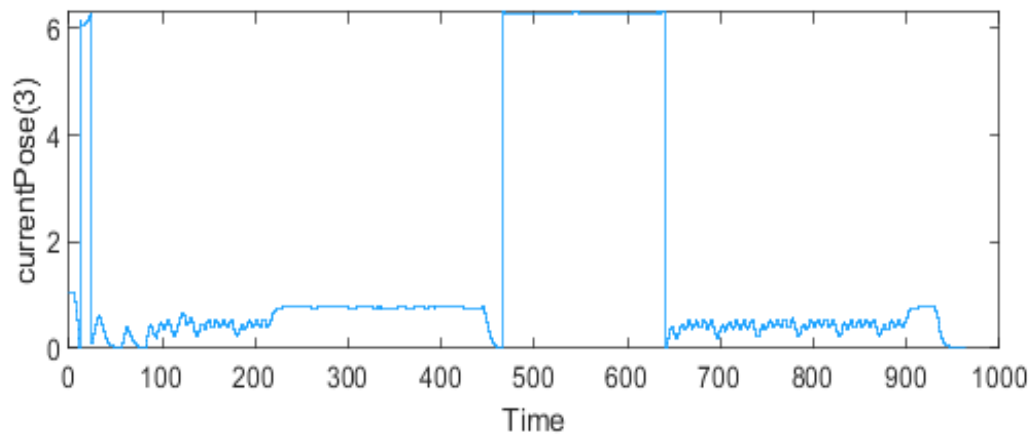
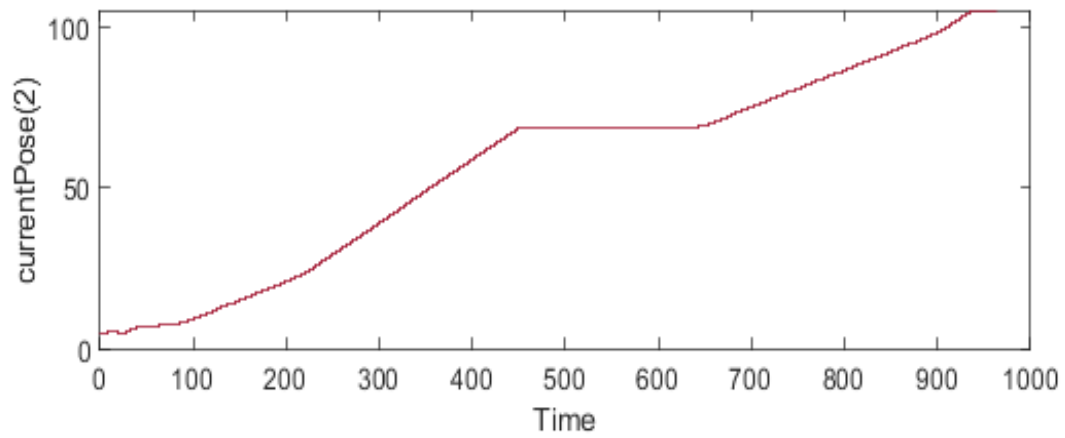
Name	Data Type	Units	Sample Time	Interp	Sync
outputOfPurePursuit	double		Continuous	linear	union
currentPose(1)	double		1	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
currentPose(2)	double		1	zoh	union
currentPose(3)	double		1	zoh	union





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Simulation Logs:  
Model '[Husky G2G](#)' contains 1 algebraic loops.

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Test Logs:

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

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### Custom Criteria Result Information

Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

---

VerificationPassed in custom criteria of sltest.testmanager.TestCase.

---

Framework Diagnostic:

---

verifyLessThan passed.

Actual Value:

0.274699999999996

Maximum Value (Exclusive):

0.500000000000000

---

Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

---

VerificationPassed in custom criteria of sltest.testmanager.TestCase.

---

Framework Diagnostic:

---

verifyLessThan passed.

Actual Value:  
0.0019999999999995  
Maximum Value (Exclusive):  
0.5000000000000000

---

## Iteration2

### Test Result Information

Result Type: Test Iteration Result  
Parent: [PathTracking](#)  
Start Time: 12-Mar-2025 14:42:50  
End Time: 12-Mar-2025 14:59:16  
Outcome: **Passed**  
Description:

Hybrid A\*

### Test Case Information

Name: Iteration2  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
ParameterSet	Parameter Set 2

## Simulation

### System Under Test Information

Model: Husky\_G2G  
Release: Current

Simulation Mode: normal  
 Override SIL or PIL Mode: 0  
 Configuration Set: Configuration  
 Start Time: 0  
 Stop Time: 979  
 Checksum: 3259350194 667955774 4111217148 2598863743  
 Simulink Version: 24.2  
 Model Version: 2.20  
 Model Author: tsamak  
 Date: Wed Mar 12 14:19:45 2025  
 User ID: tsamak  
 Model Path: C:\Users\tsamak\Downloads\autodrive\_husky\_g2g\_mbse\Husky\_G2G.slx  
 Machine Name: AUE-VKROVI-D8  
 Solver Name: VariableStepDiscrete  
 Solver Type: Variable-Step  
 Max Step Size: 0.20000000000000001  
 Simulation Start Time: 2025-03-12 14:42:50  
 Simulation Stop Time: 2025-03-12 14:59:16  
 Platform: PCWIN64

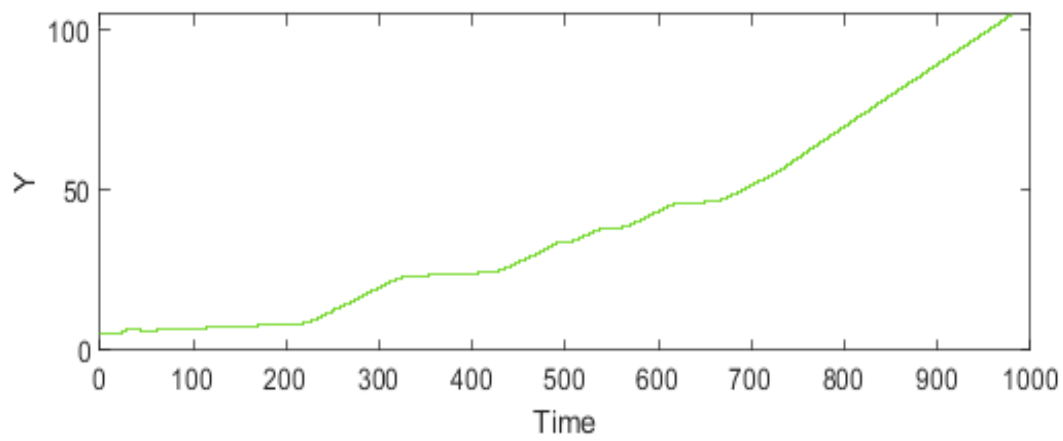
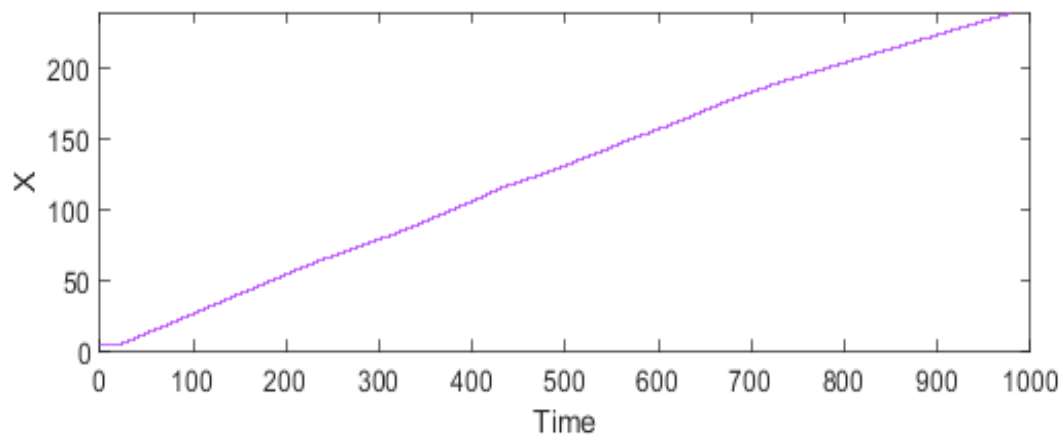
### Parameter Overrides

Workspace Variable	Value	Source	Model Element
Parameter Set 2			
waypoints	269x2 double	DataDictionary.sld	MotionControl/Constant

### Simulation Output

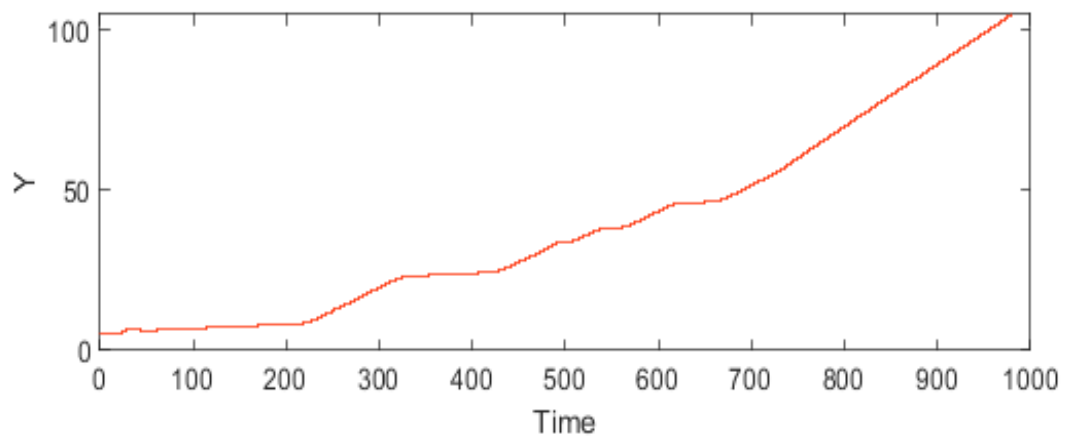
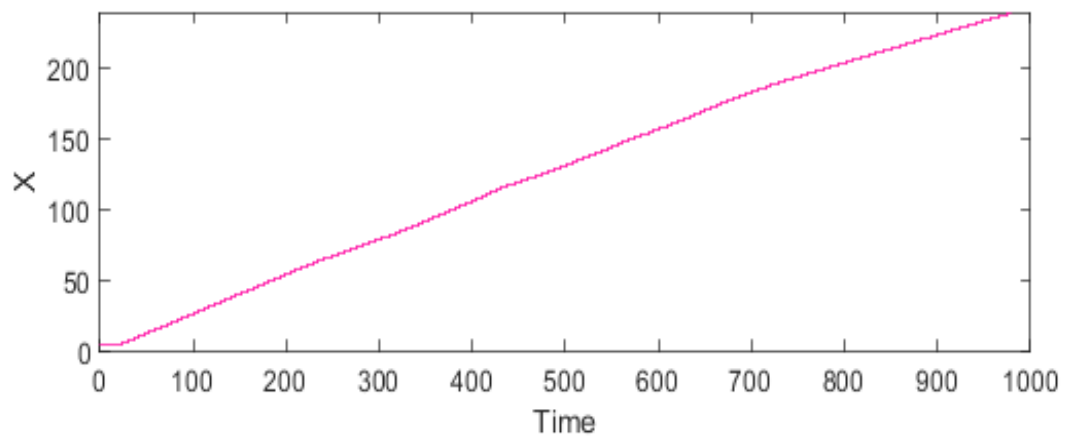
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
outputOfPurePursuit	double		Continuous	linear	union	<a href="#">Link</a>
currentPose(1)	double		1	zoh	union	<a href="#">Link</a>
currentPose(2)	double		1	zoh	union	<a href="#">Link</a>
currentPose(3)	double		1	zoh	union	<a href="#">Link</a>

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



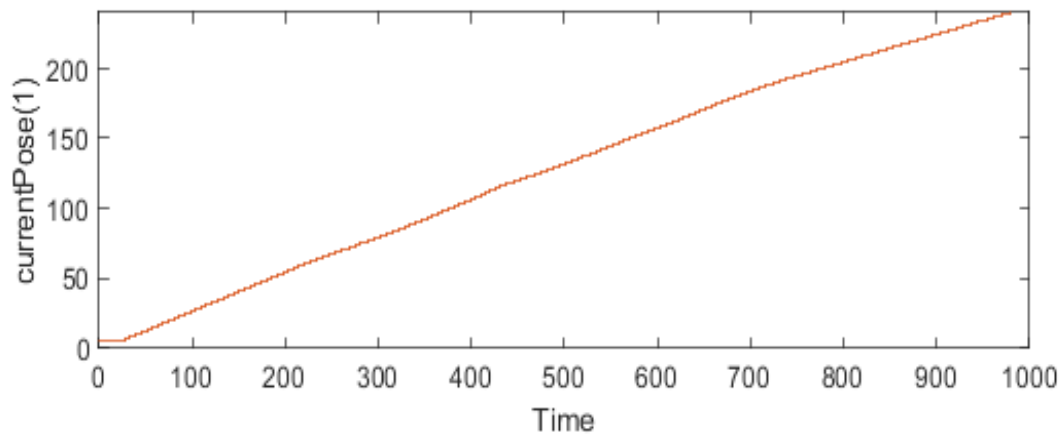
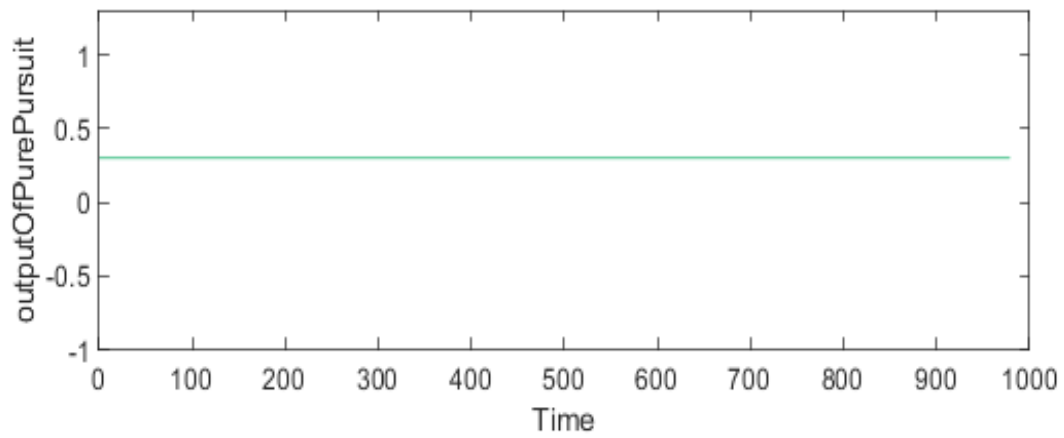
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Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



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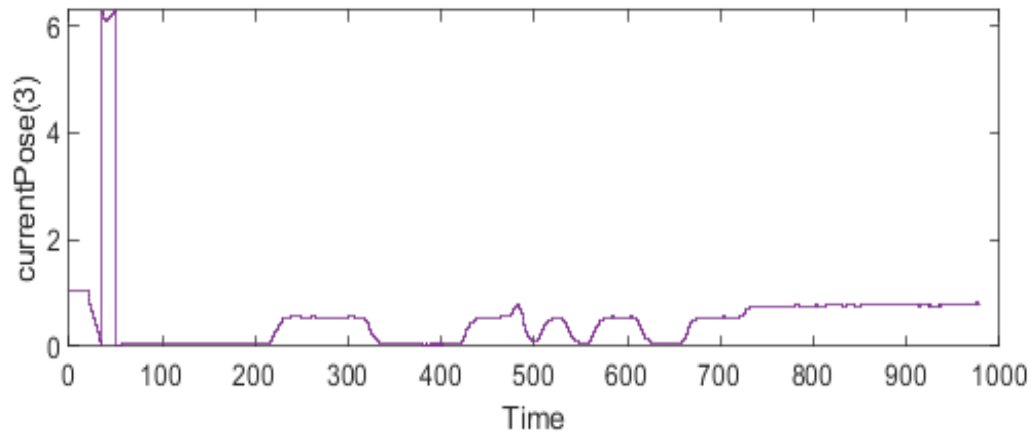
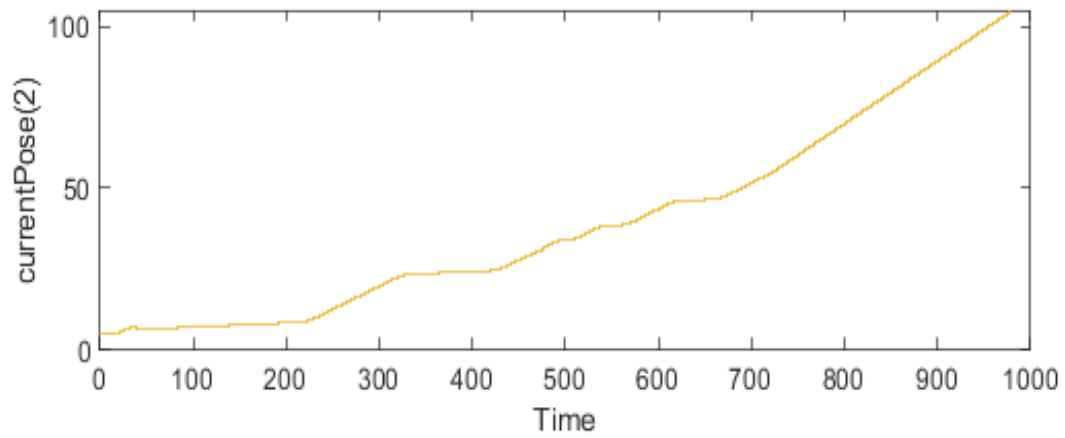
Name	Data Type	Units	Sample Time	Interp	Sync
outputOfPurePursuit	double		Continuous	linear	union
currentPose(1)	double		1	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
currentPose(2)	double		1	zoh	union
currentPose(3)	double		1	zoh	union





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Simulation Logs:  
Model '[Husky\\_G2G](#)' contains 1 algebraic loops.

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Test Logs:

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

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### Custom Criteria Result Information

Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

---

VerificationPassed in custom criteria of sltest.testmanager.TestCase.

---

Framework Diagnostic:

---

verifyLessThan passed.

Actual Value:

0.236199999999997

Maximum Value (Exclusive):

0.500000000000000

---

Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

---

VerificationPassed in custom criteria of sltest.testmanager.TestCase.

---

Framework Diagnostic:

---

verifyLessThan passed.

Actual Value:  
0.2445000000000002  
Maximum Value (Exclusive):  
0.5000000000000000

---

## Iteration3

### Test Result Information

Result Type: Test Iteration Result  
Parent: [PathTracking](#)  
Start Time: 12-Mar-2025 14:59:16  
End Time: 12-Mar-2025 15:15:22  
Outcome: **Passed**  
Description:

Rapidly Exploring Random Tree (RRT)

### Test Case Information

Name: Iteration3  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
ParameterSet	Parameter Set 3

## Simulation

### System Under Test Information

Model: Husky\_G2G  
Release: Current

Simulation Mode: normal  
 Override SIL or PIL Mode: 0  
 Configuration Set: Configuration  
 Start Time: 0  
 Stop Time: 962  
 Checksum: 3259350194 667955774 4111217148 2598863743  
 Simulink Version: 24.2  
 Model Version: 2.20  
 Model Author: tsamak  
 Date: Wed Mar 12 14:19:45 2025  
 User ID: tsamak  
 Model Path: C:\Users\tsamak\Downloads\autodrive\_husky\_g2g\_mbse\Husky\_G2G.slx  
 Machine Name: AUE-VKROVI-D8  
 Solver Name: VariableStepDiscrete  
 Solver Type: Variable-Step  
 Max Step Size: 0.20000000000000001  
 Simulation Start Time: 2025-03-12 14:59:16  
 Simulation Stop Time: 2025-03-12 15:15:22  
 Platform: PCWIN64

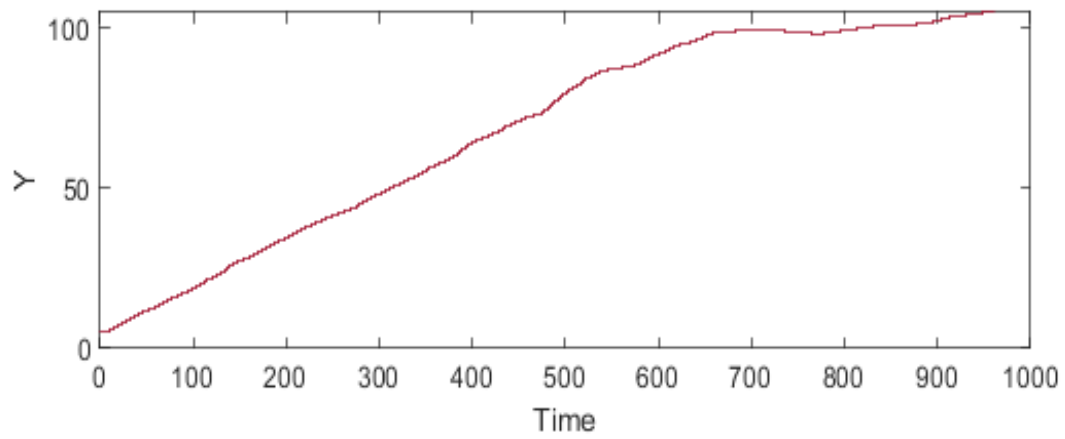
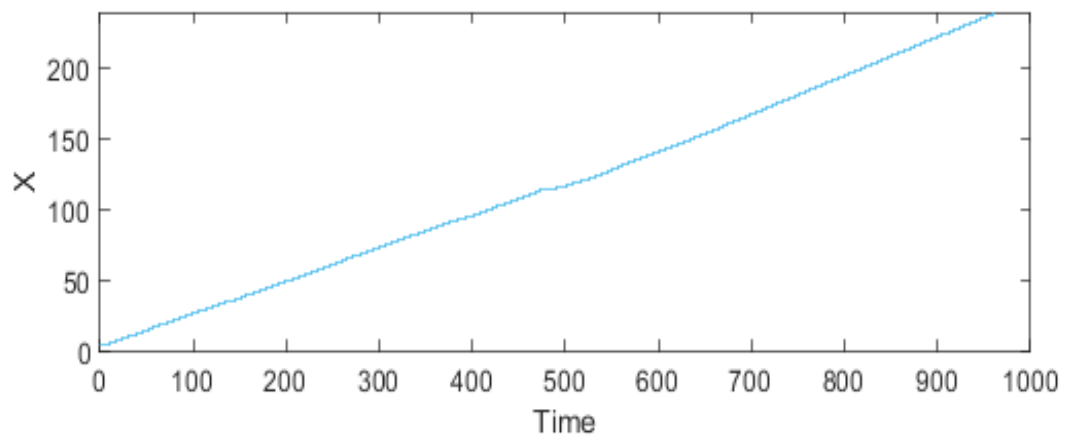
### Parameter Overrides

Workspace Variable	Value	Source	Model Element
Parameter Set 3			
waypoints	1148x2 double	DataDictionary.sld	MotionControl/Constant

### Simulation Output

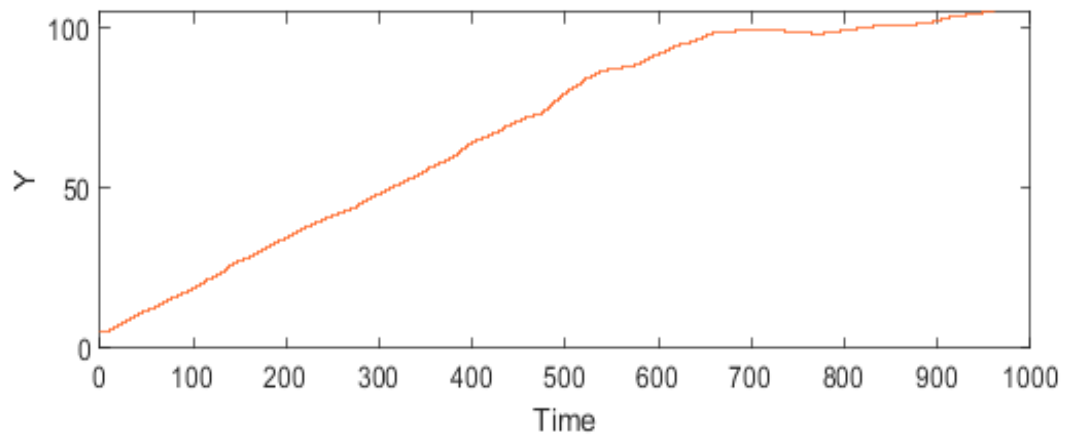
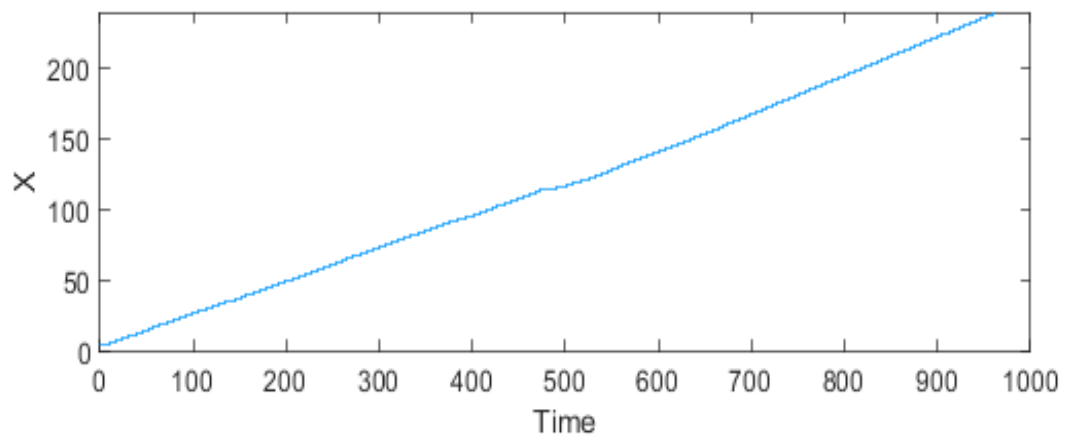
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
outputOfPurePursuit	double		Continuous	linear	union	<a href="#">Link</a>
currentPose(1)	double		1	zoh	union	<a href="#">Link</a>
currentPose(2)	double		1	zoh	union	<a href="#">Link</a>
currentPose(3)	double		1	zoh	union	<a href="#">Link</a>

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



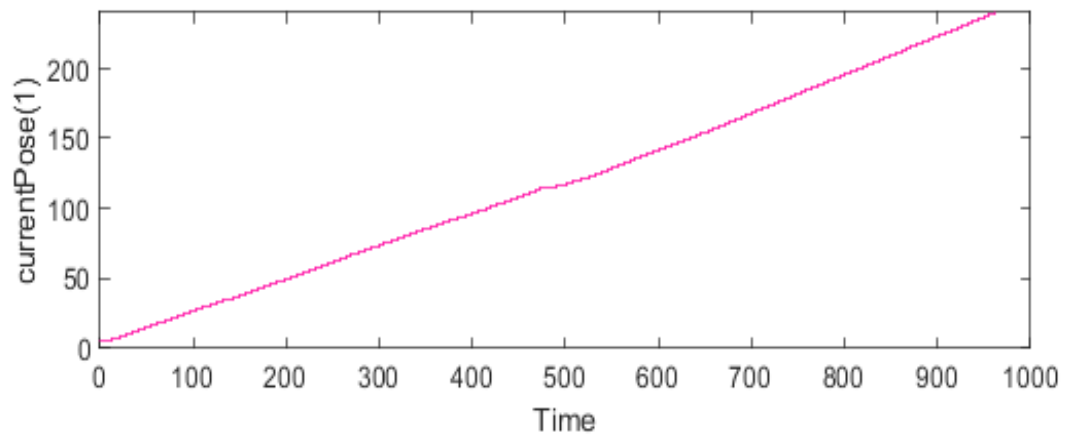
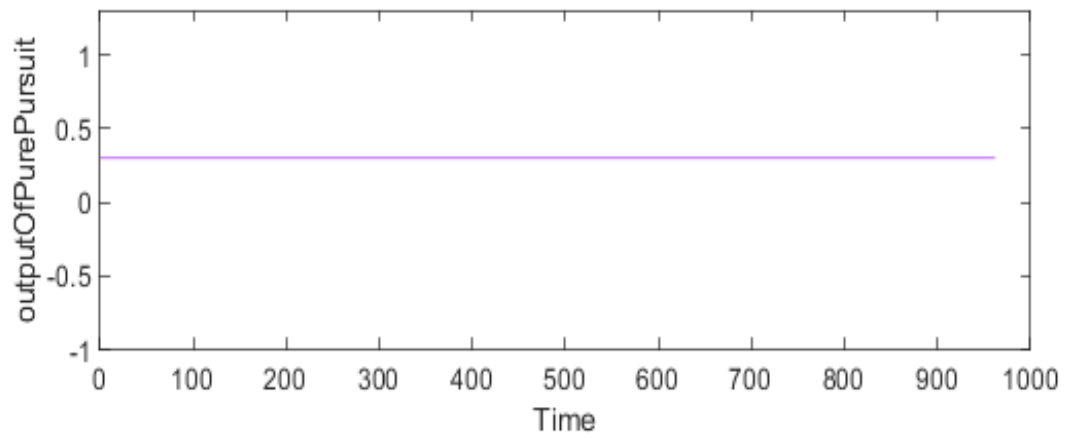
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Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



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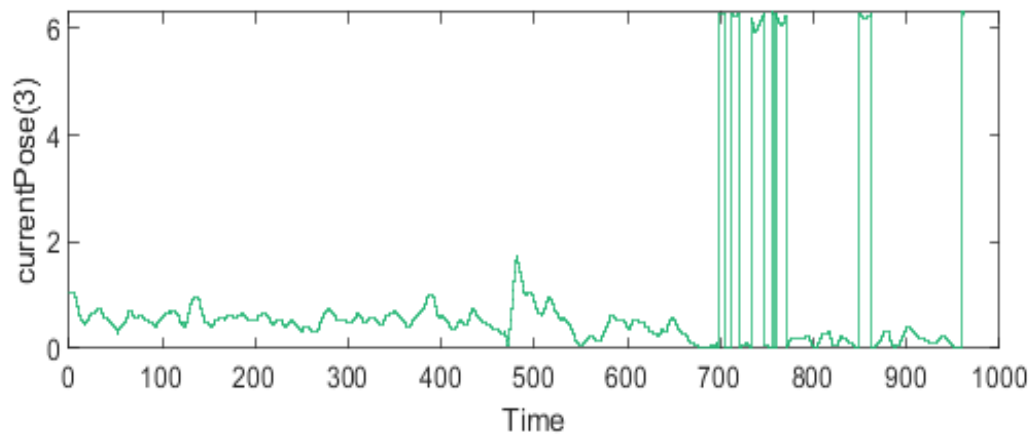
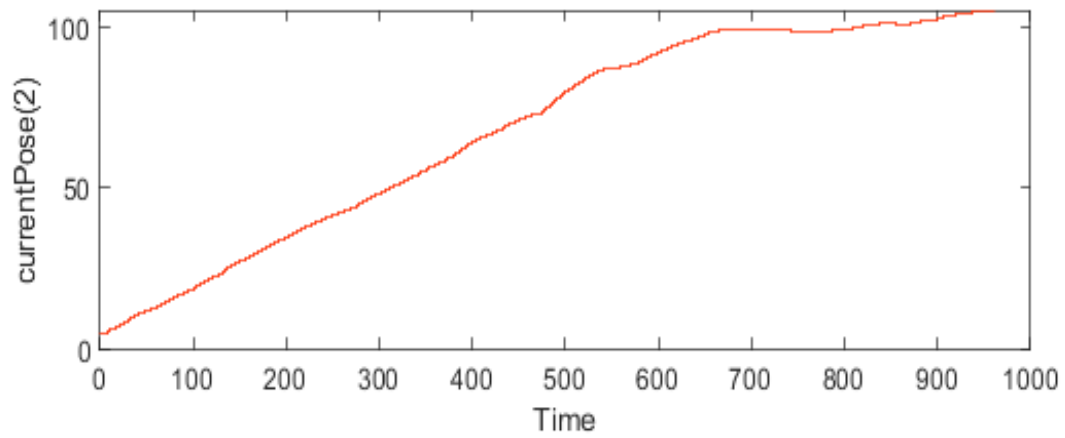
Name	Data Type	Units	Sample Time	Interp	Sync
outputOfPurePursuit	double		Continuous	linear	union
currentPose(1)	double		1	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
currentPose(2)	double		1	zoh	union
currentPose(3)	double		1	zoh	union





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Simulation Logs:  
Model '[Husky\\_G2G](#)' contains 1 algebraic loops.

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Test Logs:

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

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### Custom Criteria Result Information

Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

---

VerificationPassed in custom criteria of sltest.testmanager.TestCase.

---

Framework Diagnostic:

---

verifyLessThan passed.

Actual Value:

0.2199999999999999

Maximum Value (Exclusive):

0.5000000000000000

---

Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

---

VerificationPassed in custom criteria of sltest.testmanager.TestCase.

---

Framework Diagnostic:

---

verifyLessThan passed.

Actual Value:  
0.0060000000000000  
Maximum Value (Exclusive):  
0.5000000000000000

---

## Iteration4

### Test Result Information

Result Type: Test Iteration Result  
Parent: [PathTracking](#)  
Start Time: 12-Mar-2025 15:15:22  
End Time: 12-Mar-2025 15:31:44  
Outcome: **Passed**  
Description:

RRT\*

### Test Case Information

Name: Iteration4  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
ParameterSet	Parameter Set 4

## Simulation

### System Under Test Information

Model: Husky\_G2G  
Release: Current

Simulation Mode: normal  
 Override SIL or PIL Mode: 0  
 Configuration Set: Configuration  
 Start Time: 0  
 Stop Time: 976.80000000000007  
 Checksum: 3259350194 667955774 4111217148 2598863743  
 Simulink Version: 24.2  
 Model Version: 2.20  
 Model Author: tsamak  
 Date: Wed Mar 12 14:19:45 2025  
 User ID: tsamak  
 Model Path: C:\Users\tsamak\Downloads\autodrive\_husky\_g2g\_mbse\Husky\_G2G.slx  
 Machine Name: AUE-VKROVI-D8  
 Solver Name: VariableStepDiscrete  
 Solver Type: Variable-Step  
 Max Step Size: 0.20000000000000001  
 Simulation Start Time: 2025-03-12 15:15:23  
 Simulation Stop Time: 2025-03-12 15:31:44  
 Platform: PCWIN64

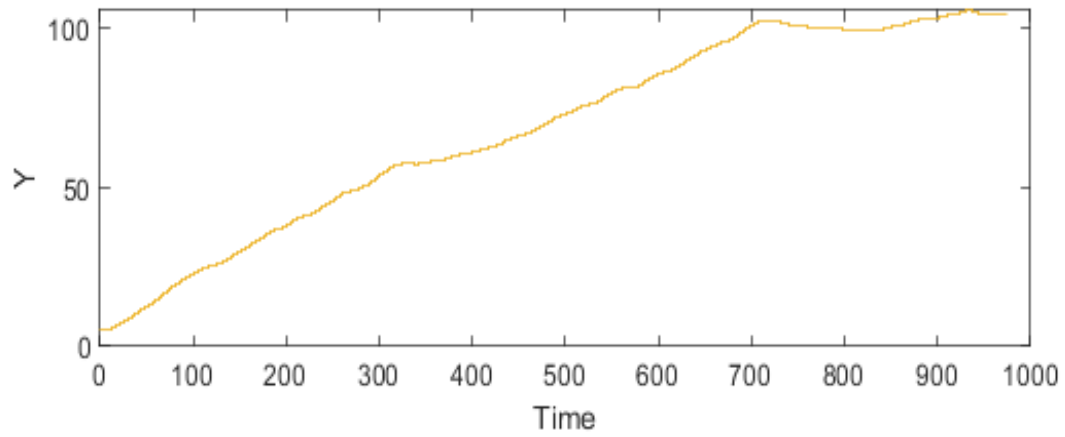
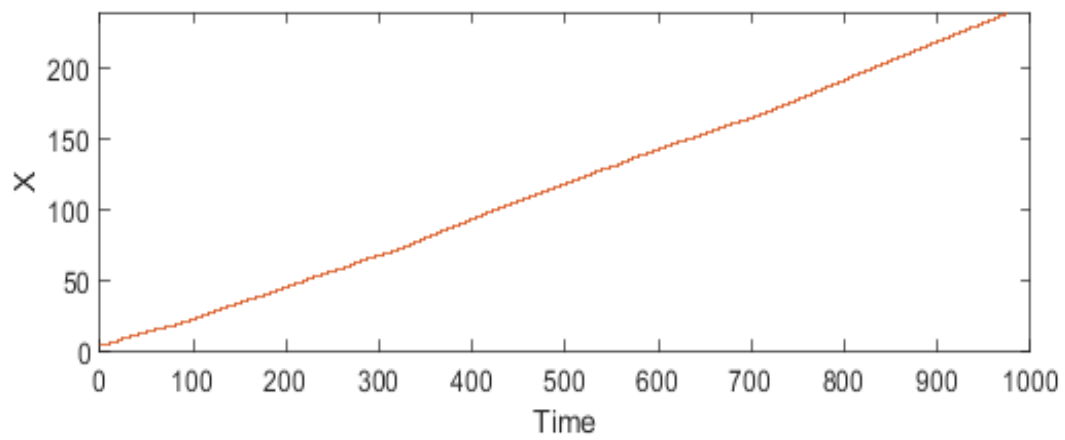
### Parameter Overrides

Workspace Variable	Value	Source	Model Element
Parameter Set 4			
waypoints	1015x2 double	DataDictionary.sld	MotionControl/Constant

### Simulation Output

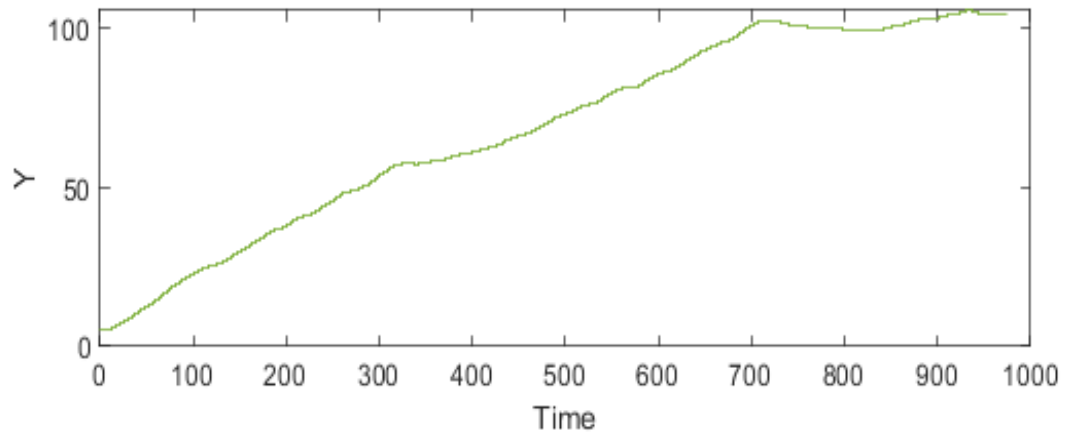
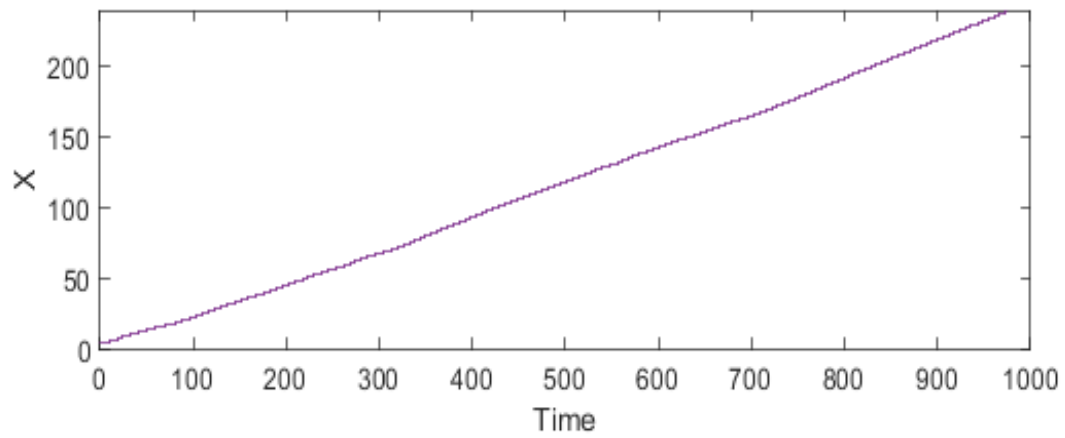
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
outputOfPurePursuit	double		Continuous	linear	union	<a href="#">Link</a>
currentPose(1)	double		1	zoh	union	<a href="#">Link</a>
currentPose(2)	double		1	zoh	union	<a href="#">Link</a>
currentPose(3)	double		1	zoh	union	<a href="#">Link</a>

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



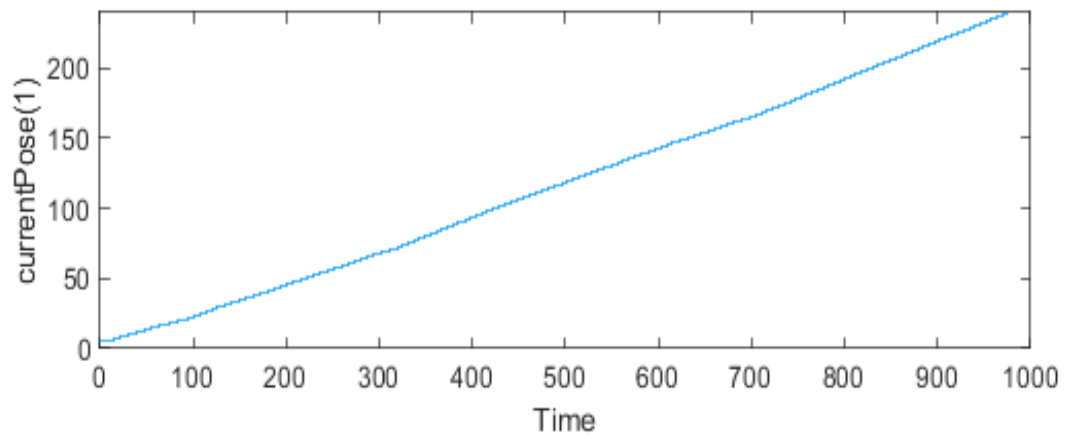
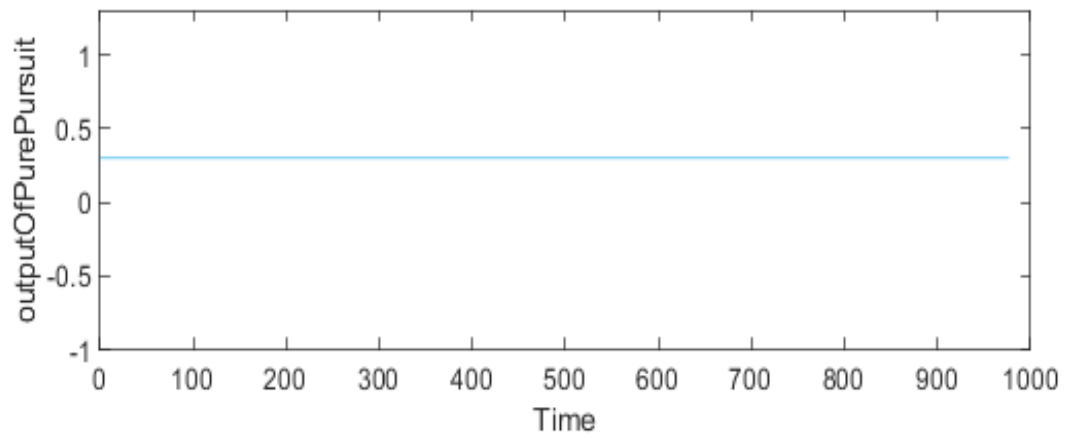
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Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



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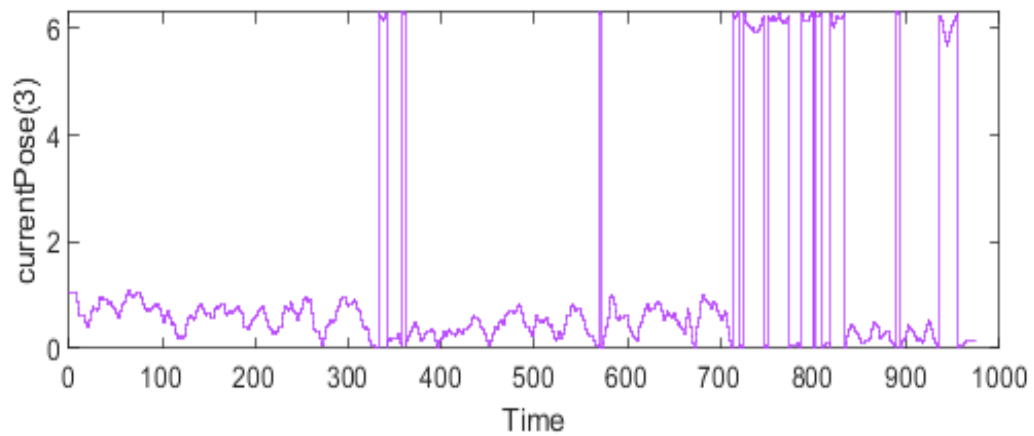
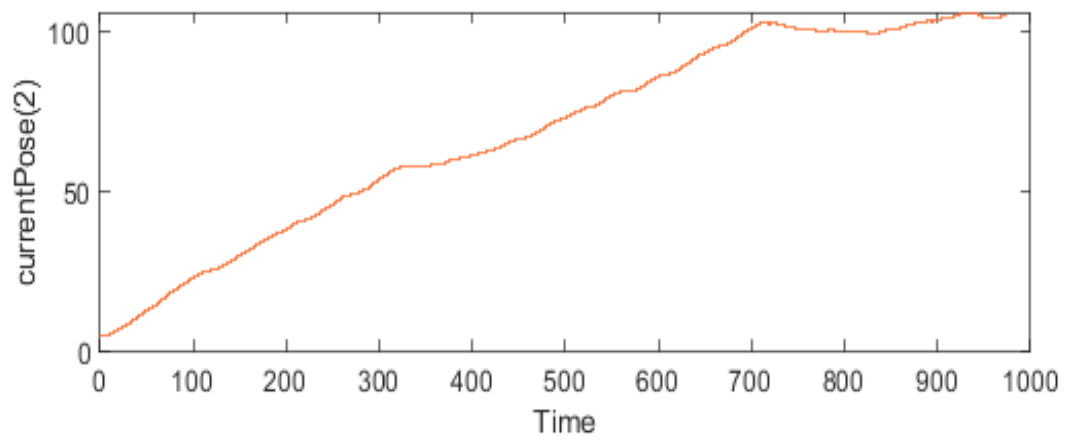
Name	Data Type	Units	Sample Time	Interp	Sync
outputOfPurePursuit	double		Continuous	linear	union
currentPose(1)	double		1	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
currentPose(2)	double		1	zoh	union
currentPose(3)	double		1	zoh	union





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Simulation Logs:  
Model '[Husky G2G](#)' contains 1 algebraic loops.

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Test Logs:

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

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### Custom Criteria Result Information

Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

---

VerificationPassed in custom criteria of sltest.testmanager.TestCase.

---

Framework Diagnostic:

---

verifyLessThan passed.

Actual Value:

0.4218999999999994

Maximum Value (Exclusive):

0.5000000000000000

---

Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

---

VerificationPassed in custom criteria of sltest.testmanager.TestCase.

---

Framework Diagnostic:

---

verifyLessThan passed.

Actual Value:  
0.0040000000000005  
Maximum Value (Exclusive):  
0.5000000000000000

---

## Iteration5

### Test Result Information

Result Type: Test Iteration Result  
Parent: [PathTracking](#)  
Start Time: 12-Mar-2025 15:31:44  
End Time: 12-Mar-2025 15:47:31  
Outcome: **Passed**  
Description:

Bi-Directional RRT

### Test Case Information

Name: Iteration5  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
ParameterSet	Parameter Set 5

## Simulation

### System Under Test Information

Model: Husky\_G2G  
Release: Current

Simulation Mode: normal  
 Override SIL or PIL Mode: 0  
 Configuration Set: Configuration  
 Start Time: 0  
 Stop Time: 942.20000000000005  
 Checksum: 3259350194 667955774 4111217148 2598863743  
 Simulink Version: 24.2  
 Model Version: 2.20  
 Model Author: tsamak  
 Date: Wed Mar 12 14:19:45 2025  
 User ID: tsamak  
 Model Path: C:\Users\tsamak\Downloads\autodrive\_husky\_g2g\_mbse\Husky\_G2G.slx  
 Machine Name: AUE-VKROVI-D8  
 Solver Name: VariableStepDiscrete  
 Solver Type: Variable-Step  
 Max Step Size: 0.20000000000000001  
 Simulation Start Time: 2025-03-12 15:31:44  
 Simulation Stop Time: 2025-03-12 15:47:31  
 Platform: PCWIN64

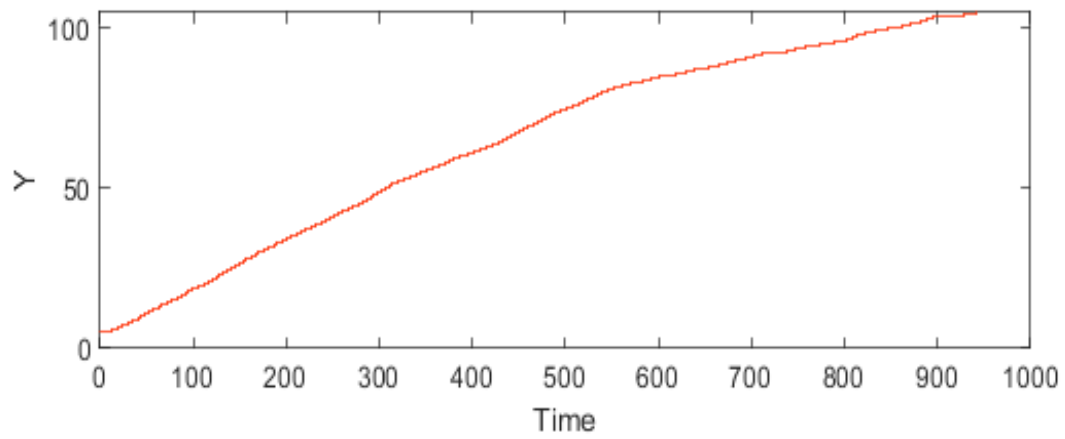
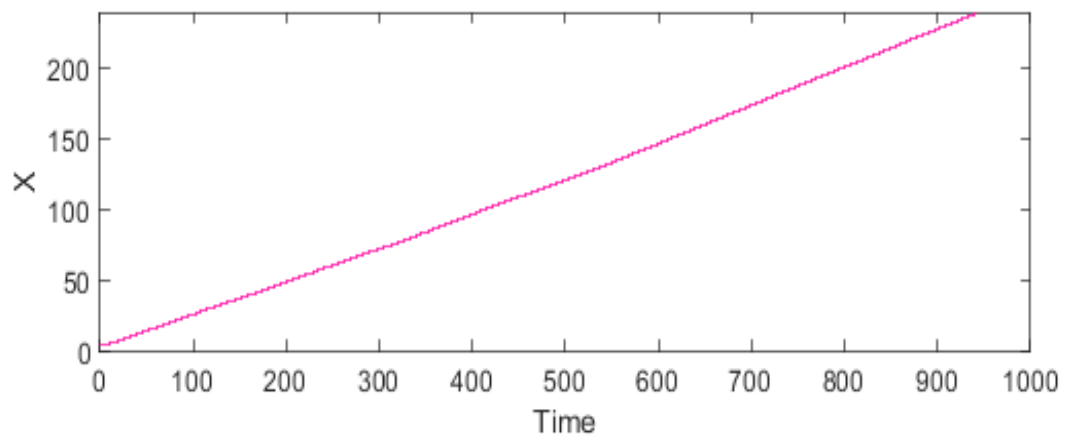
### Parameter Overrides

Workspace Variable	Value	Source	Model Element
Parameter Set 5			
waypoints	959x2 double	DataDictionary.sld	MotionControl/Constant

### Simulation Output

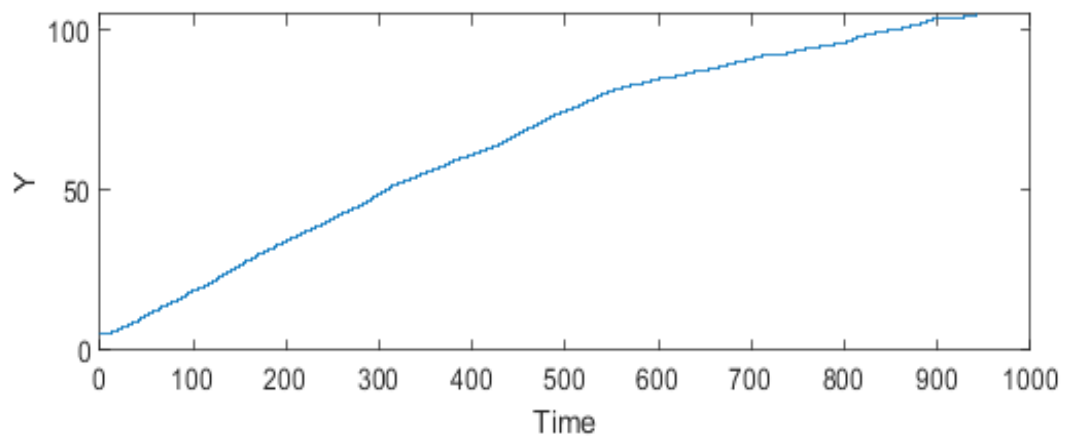
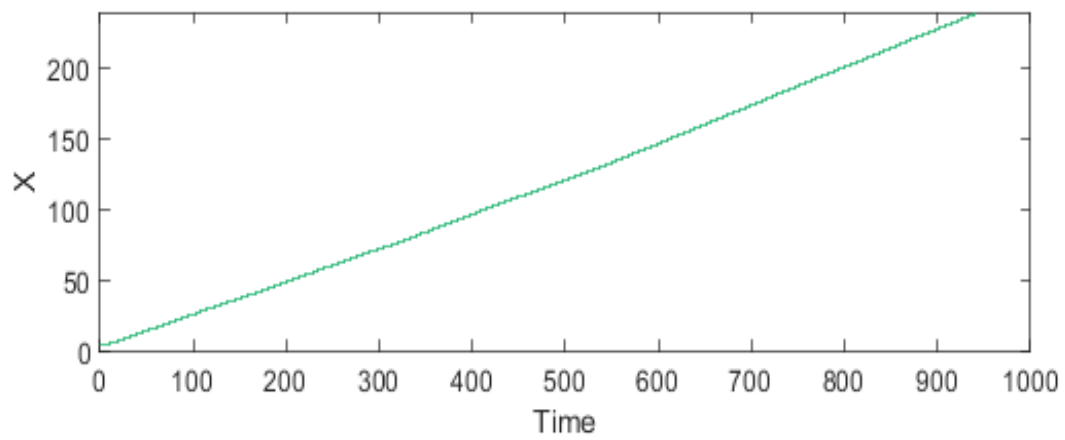
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
outputOfPurePursuit	double		Continuous	linear	union	<a href="#">Link</a>
currentPose(1)	double		1	zoh	union	<a href="#">Link</a>
currentPose(2)	double		1	zoh	union	<a href="#">Link</a>
currentPose(3)	double		1	zoh	union	<a href="#">Link</a>

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



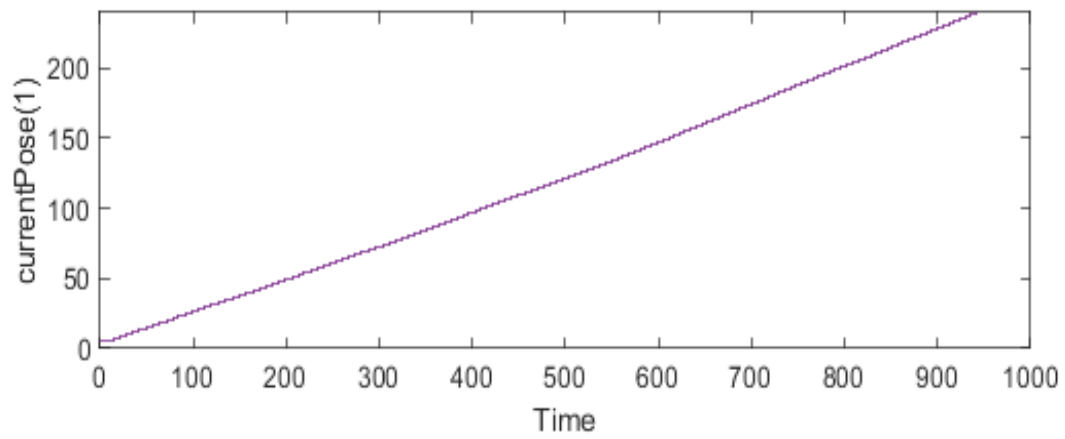
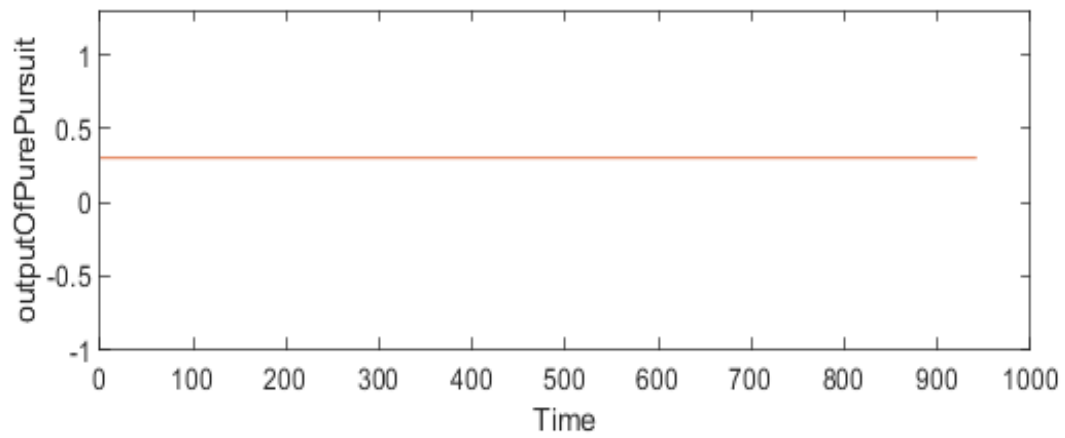
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Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



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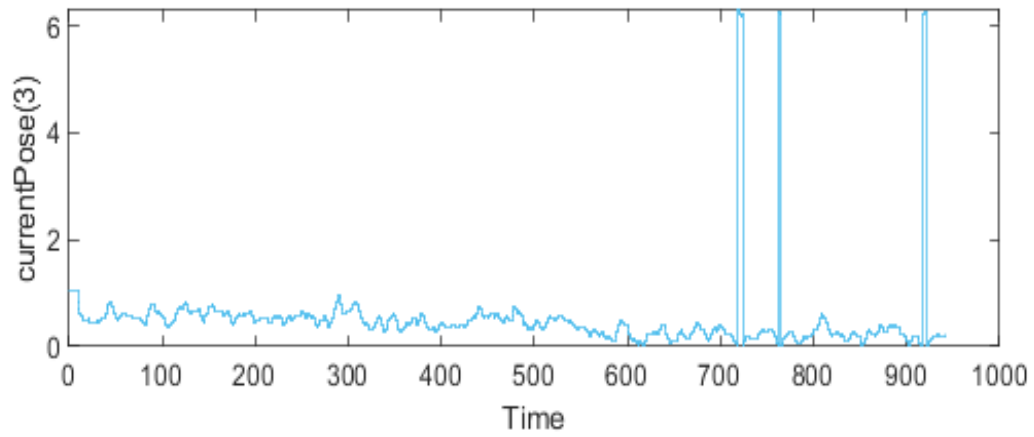
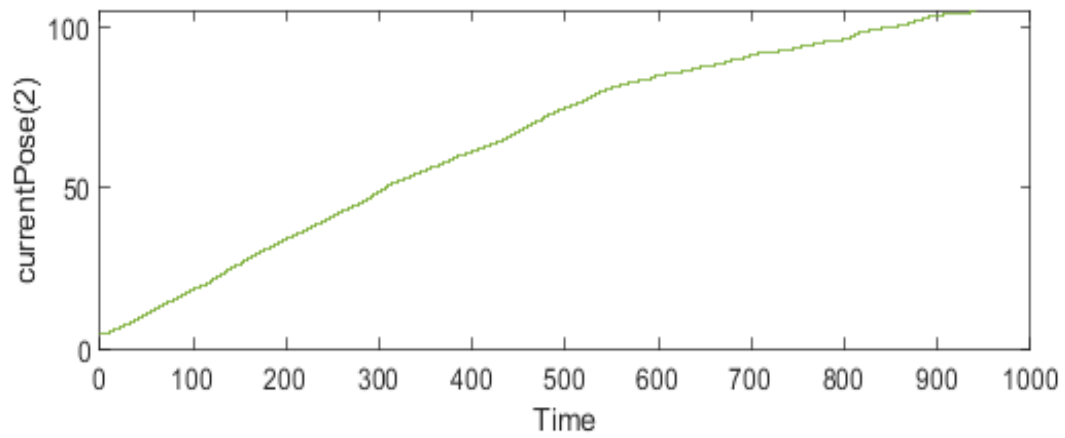
Name	Data Type	Units	Sample Time	Interp	Sync
outputOfPurePursuit	double		Continuous	linear	union
currentPose(1)	double		1	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
currentPose(2)	double		1	zoh	union
currentPose(3)	double		1	zoh	union





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Simulation Logs:  
 Model '[Husky\\_G2G](#)' contains 1 algebraic loops.

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Test Logs:

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

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### Custom Criteria Result Information

Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

---

VerificationPassed in custom criteria of sltest.testmanager.TestCase.

---

Framework Diagnostic:

---

verifyLessThan passed.

Actual Value:

0.288099999999986

Maximum Value (Exclusive):

0.500000000000000

---

Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

---

VerificationPassed in custom criteria of sltest.testmanager.TestCase.

---

Framework Diagnostic:

---

verifyLessThan passed.

Actual Value:  
0.0613000000000003  
Maximum Value (Exclusive):  
0.5000000000000000

---

## Iteration6

### Test Result Information

Result Type: Test Iteration Result  
Parent: [PathTracking](#)  
Start Time: 12-Mar-2025 15:47:31  
End Time: 12-Mar-2025 16:11:45  
Outcome: **Passed**  
Description:

Probabilistic Roadmaps (PRM)

### Test Case Information

Name: Iteration6  
Type: Baseline Test

### Iteration Settings

#### Test Overrides

Parameter Name	Value
ParameterSet	Parameter Set 6

## Simulation

### System Under Test Information

Model: Husky\_G2G  
Release: Current

Simulation Mode: normal  
 Override SIL or PIL Mode: 0  
 Configuration Set: Configuration  
 Start Time: 0  
 Stop Time: 1449.8000000000002  
 Checksum: 3259350194 667955774 4111217148 2598863743  
 Simulink Version: 24.2  
 Model Version: 2.20  
 Model Author: tsamak  
 Date: Wed Mar 12 14:19:45 2025  
 User ID: tsamak  
 Model Path: C:\Users\tsamak\Downloads\autodrive\_husky\_g2g\_mbse\Husky\_G2G.slx  
 Machine Name: AUE-VKROVI-D8  
 Solver Name: VariableStepDiscrete  
 Solver Type: Variable-Step  
 Max Step Size: 0.20000000000000001  
 Simulation Start Time: 2025-03-12 15:47:31  
 Simulation Stop Time: 2025-03-12 16:11:45  
 Platform: PCWIN64

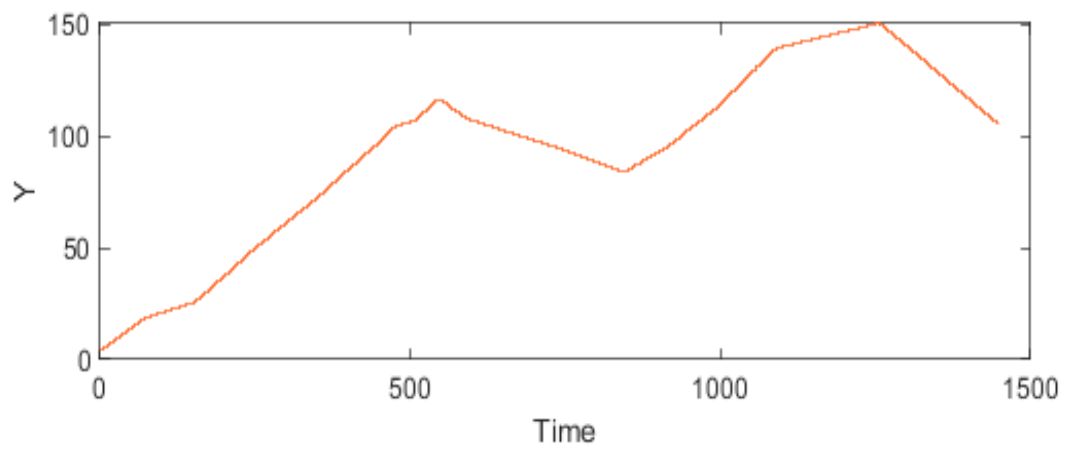
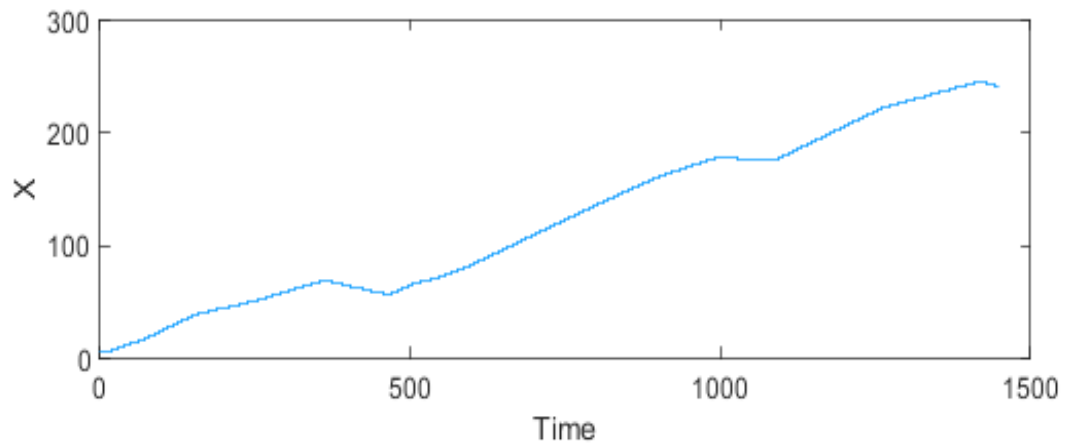
### Parameter Overrides

Workspace Variable	Value	Source	Model Element
Parameter Set 6			
waypoints	1000x2 double	DataDictionary.sld	MotionControl/Constant

### Simulation Output

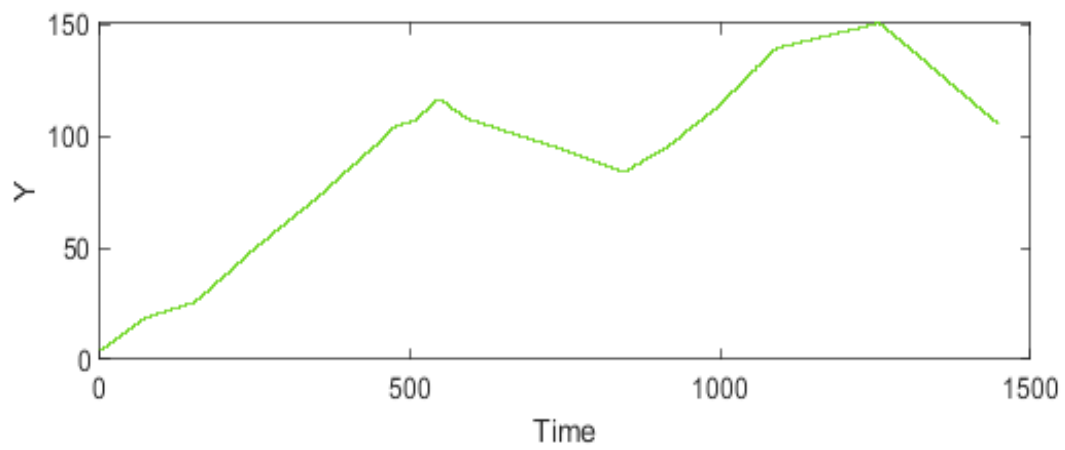
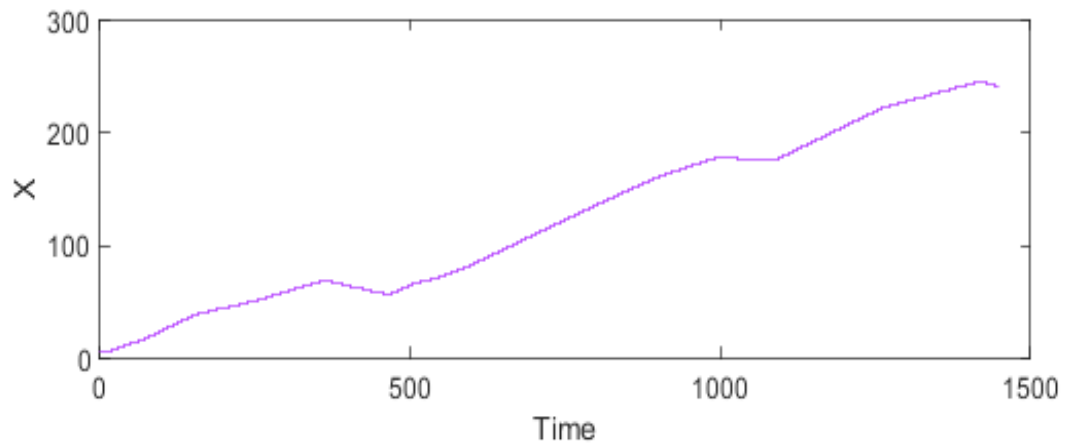
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
X	double		1	zoh	union	<a href="#">Link</a>
Y	double		1	zoh	union	<a href="#">Link</a>
outputOfPurePursuit	double		Continuous	linear	union	<a href="#">Link</a>
currentPose(1)	double		1	zoh	union	<a href="#">Link</a>
currentPose(2)	double		1	zoh	union	<a href="#">Link</a>
currentPose(3)	double		1	zoh	union	<a href="#">Link</a>

Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



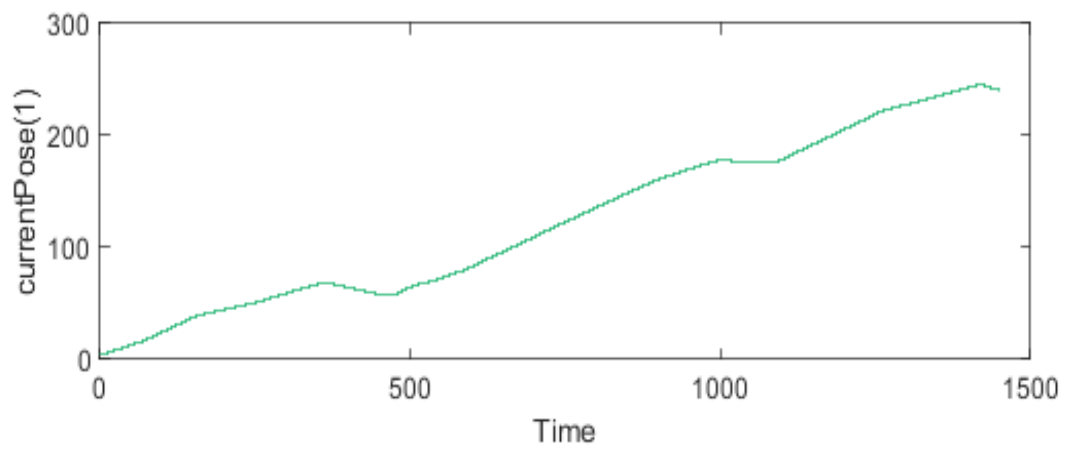
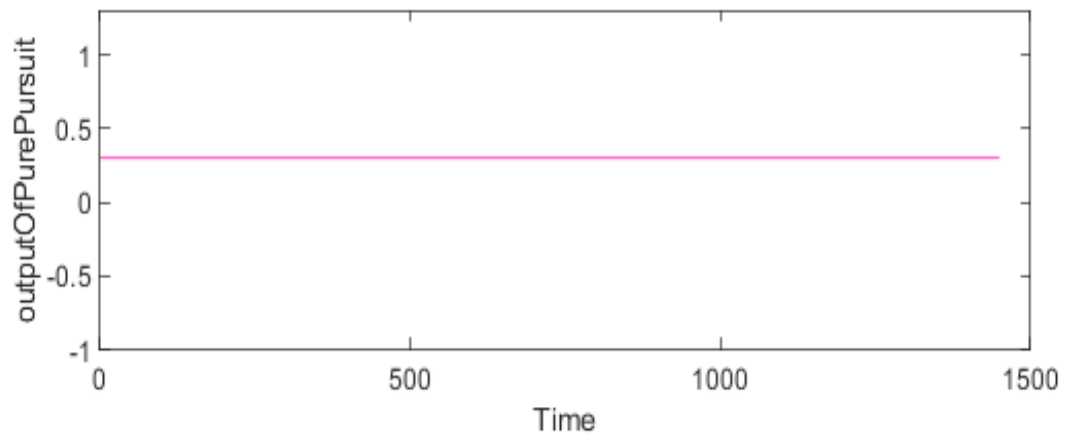
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Name	Data Type	Units	Sample Time	Interp	Sync
X	double		1	zoh	union
Y	double		1	zoh	union



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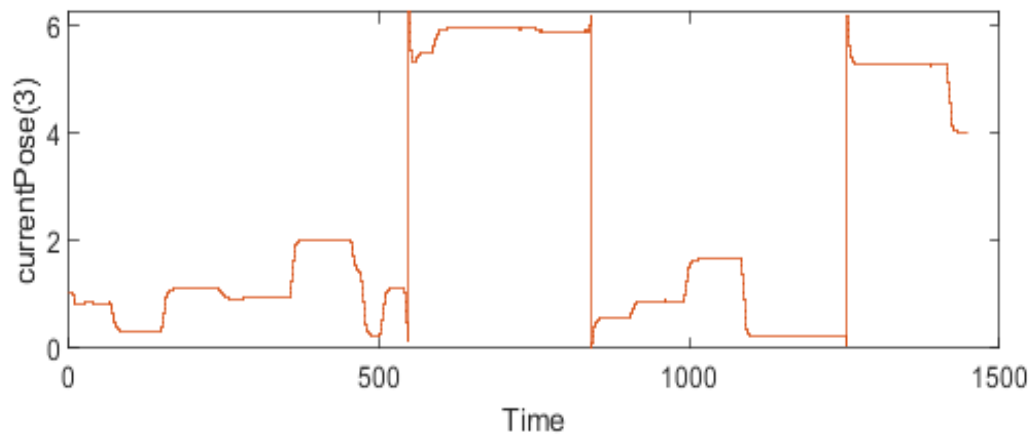
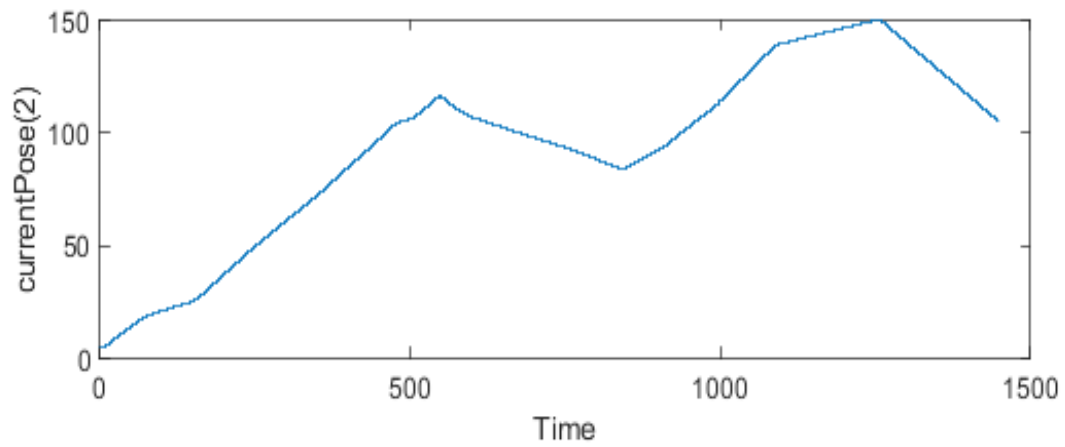
Name	Data Type	Units	Sample Time	Interp	Sync
outputOfPurePursuit	double		Continuous	linear	union
currentPose(1)	double		1	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
currentPose(2)	double		1	zoh	union
currentPose(3)	double		1	zoh	union





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Simulation Logs:  
Model '[Husky\\_G2G](#)' contains 1 algebraic loops.

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Test Logs:

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

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### Custom Criteria Result Information

Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

-----  
VerificationPassed in custom criteria of sltest.testmanager.TestCase.

-----  
Framework Diagnostic:

-----  
verifyLessThan passed.

Actual Value:

0.0444999999999999

Maximum Value (Exclusive):

0.5000000000000000

-----  
Diagnostic Record:

Outcome: Passed

Event: VerificationPassed

-----  
VerificationPassed in custom criteria of sltest.testmanager.TestCase.

-----  
Framework Diagnostic:

-----  
verifyLessThan passed.

Actual Value:

0.0207000000000005

Maximum Value (Exclusive):

0.5000000000000000

---