



Report Generated by Test Manager

Title: AutoDRIVE RZR AEB Test Report
Author: Tanmay Samak and Chinmay Samak
Date: 08-Nov-2024 13:23:05

Test Environment

Platform: PCWIN64
MATLAB: (R2024b)

Summary

Name	Outcome	Duration (Seconds)
 Tests	2  2 	626.872
 AEB	2  2 	626.872
 AEB	2  2 	626.871
 Iteration1		92.715
 Iteration2		114.565
 Iteration3		168.058
 Iteration4		251.337

Tests

Test Result Information

Result Type: Test File Result
Parent: None
Start Time: 08-Nov-2024 13:12:37
End Time: 08-Nov-2024 13:23:04
Outcome: Total: 4, Passed: 2, Failed: 2

Test Suite Information

Name: Tests

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AEB

Test Result Information

Result Type: Test Suite Result
Parent: [Tests](#)
Start Time: 08-Nov-2024 13:12:37
End Time: 08-Nov-2024 13:23:04
Outcome: Total: 4, Passed: 2, Failed: 2

Test Suite Information

Name: AEB

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AEB

Test Result Information

Result Type: Test Case Result
Parent: [AEB](#)
Start Time: 08-Nov-2024 13:12:37
End Time: 08-Nov-2024 13:23:04

Outcome: **Failed**
Cause of Failure: **Test failed as iteration failed**

Test Case Information

Name: AEB
Type: Baseline Test

Iteration1

Test Result Information

Result Type: Test Iteration Result
Parent: [AEB](#)
Start Time: 08-Nov-2024 13:12:37
End Time: 08-Nov-2024 13:14:10
Outcome: **Passed**

Test Case Information


Name: Iteration1
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
ParameterSet	Parameter Set 1
VariantConfiguration	YOLO_V2_TINY

Logical and Temporal Assessments

Name	Assessment
 Collision Check	<p>At any point of time, (collisionCount < uint16(1)) must be true</p> <p>REQUIREMENTS</p> <p>Description: Collision</p> <p>Document: Requirements.slreqx</p>

Simulation

System Under Test Information

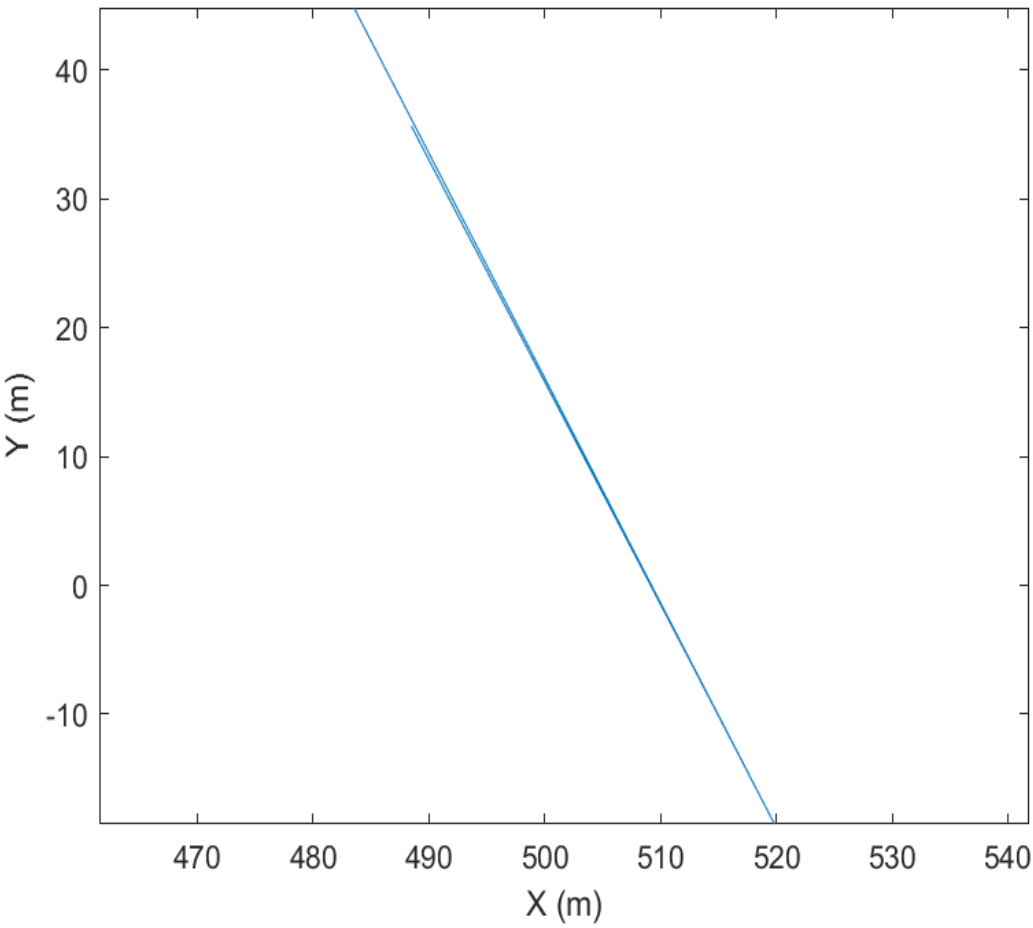
Model: AutoDRIVE_RZR_AEB
Release: Current
Simulation Mode: normal
Override SIL or PIL Mode: 0
Configuration Set: Configuration
Variant Configuration: YOLO_V2_TINY
Start Time: 0
Stop Time: 180
Checksum: 4262443901 1130679155 434270621 2409937954
Simulink Version: 24.2
Model Version: 1.38
Model Author: tsamak
Date: Fri Nov 08 13:11:49 2024
User ID: tsamak
Model Path: C:\Users\tsamak\Downloads\MathWorks RZR AEB
- System Composer\AutoDRIVE_RZR_AEB.slx

Machine Name: AUE-VKROVI-L11
Solver Name: FixedStepDiscrete
Solver Type: Fixed-Step
Fixed Step Size: 1
Simulation Start Time: 2024-11-08 13:12:42
Simulation Stop Time: 2024-11-08 13:14:09
Platform: PCWIN64

Parameter Overrides

Workspace Variable	Value	Source	Model Element
Parameter Set 1			
TimeOfDay	560	model workspace	Simulation/Time of Day
WeatherID	6	model workspace	Simulation/Weather ID

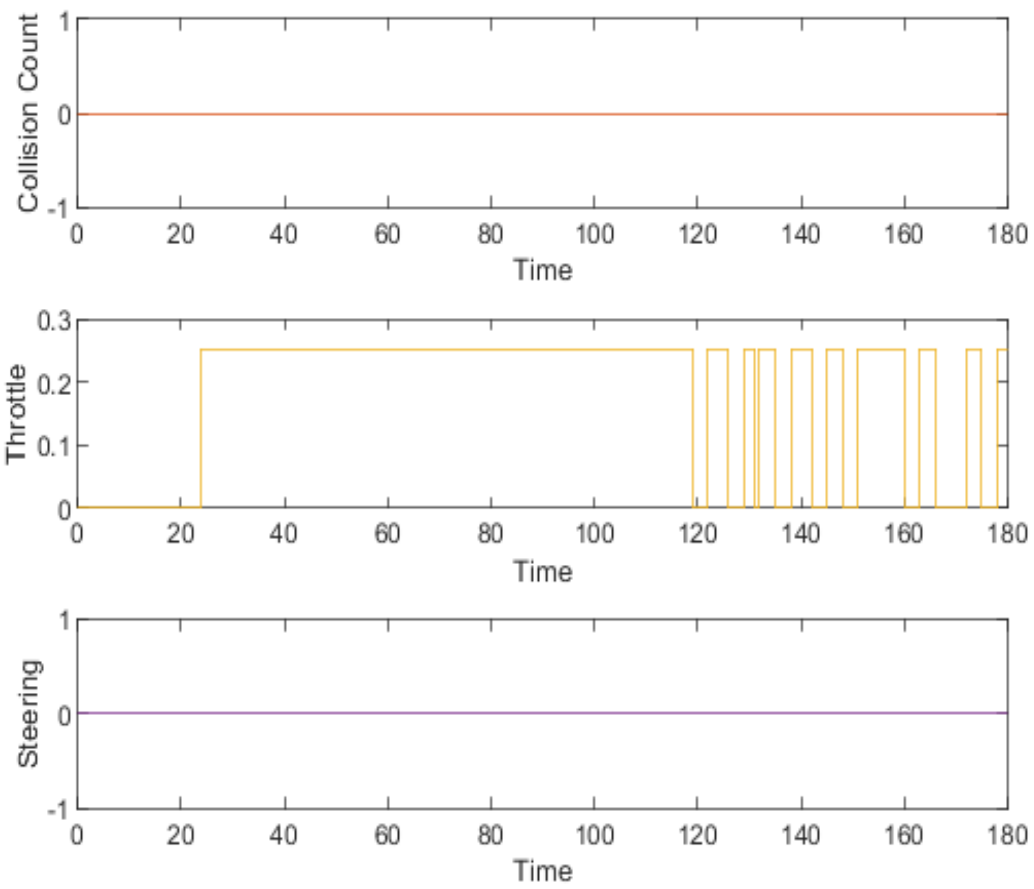
Simulation Callback Plots



Simulation Output

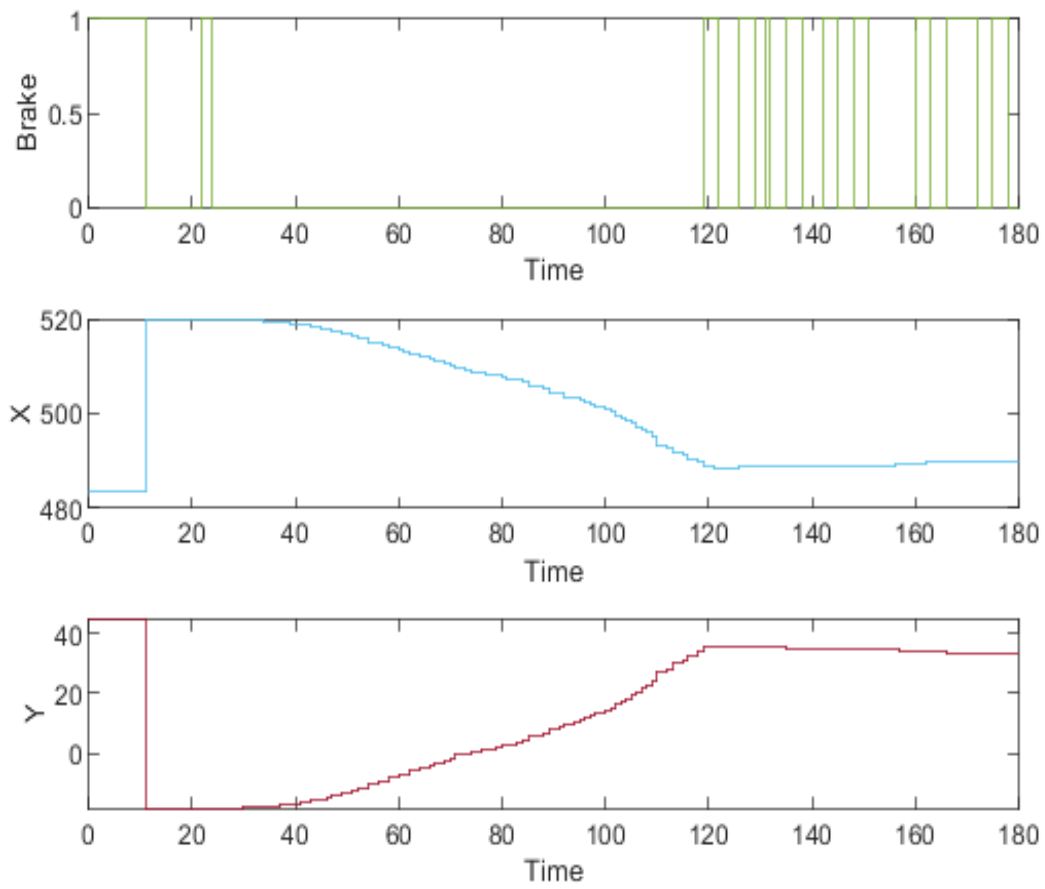
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Collision Count	uint16		1	zoh	union	Link
Throttle	double		1	zoh	union	Link
Steering	double		1	zoh	union	Link
Brake	double		1	zoh	union	Link
X	double		1	zoh	union	Link
Y	double		1	zoh	union	Link
Roll	double		1	zoh	union	Link
Pitch	double		1	zoh	union	Link
Yaw	double		1	zoh	union	Link
Roll Rate	double		1	zoh	union	Link
Pitch Rate	double		1	zoh	union	Link
Yaw Rate	double		1	zoh	union	Link
Acc X	double		1	zoh	union	Link
Acc Y	double		1	zoh	union	Link
Acc Z	double		1	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Collision Count	uint16		1	zoh	union
Throttle	double		1	zoh	union
Steering	double		1	zoh	union



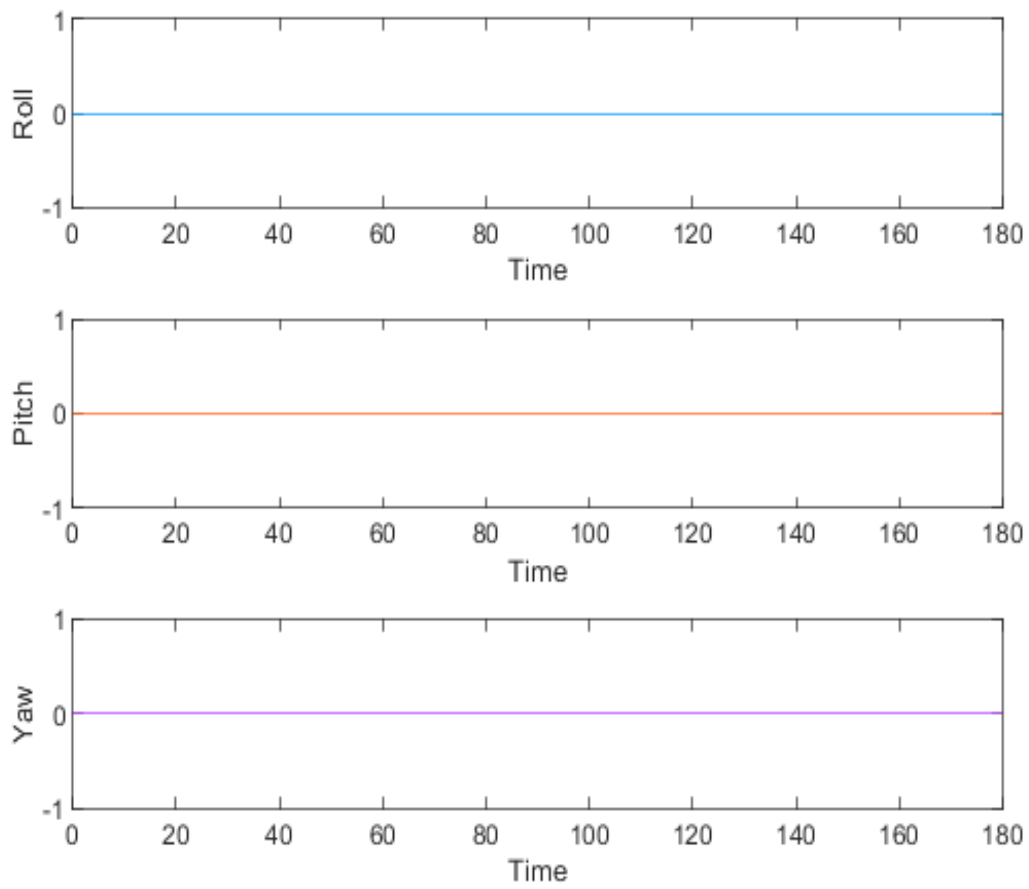
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Name	Data Type	Units	Sample Time	Interp	Sync
Brake	double		1	zoh	union
X	double		1	zoh	union
Y	double		1	zoh	union



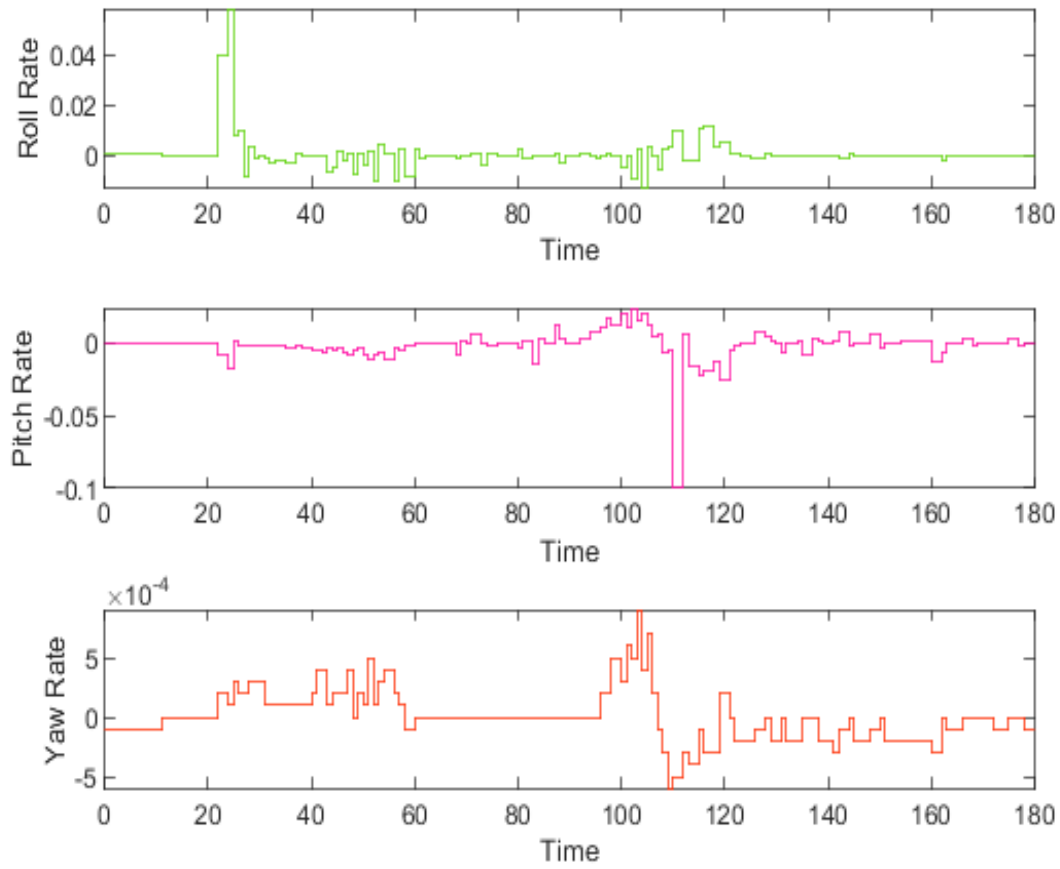
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Name	Data Type	Units	Sample Time	Interp	Sync
Roll	double		1	zoh	union
Pitch	double		1	zoh	union
Yaw	double		1	zoh	union



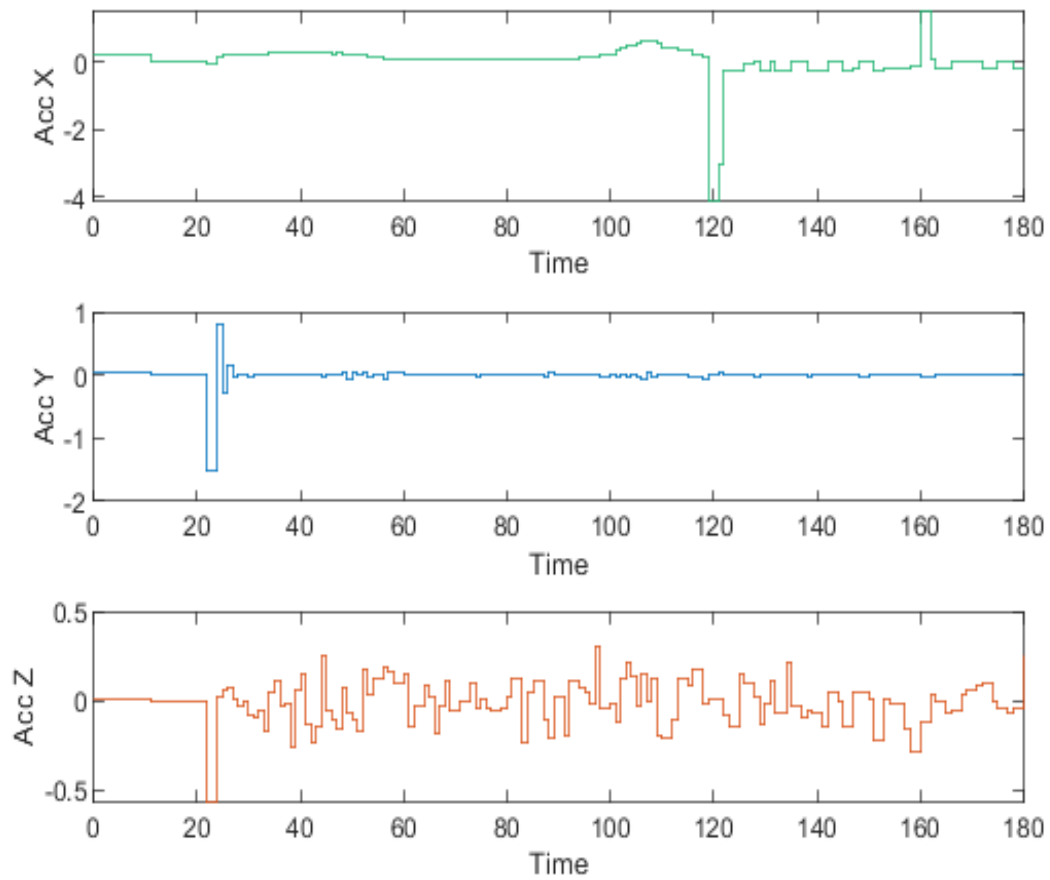
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Name	Data Type	Units	Sample Time	Interp	Sync
Roll Rate	double		1	zoh	union
Pitch Rate	double		1	zoh	union
Yaw Rate	double		1	zoh	union



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



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Test Logs:

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

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Iteration2

Test Result Information

Result Type: Test Iteration Result
Parent: [AEB](#)
Start Time: 08-Nov-2024 13:14:10
End Time: 08-Nov-2024 13:16:05
Outcome: **Failed**
Cause of Failure: **Failed criteria: Assessments**

Test Case Information


Name: Iteration2
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
ParameterSet	Parameter Set 2
VariantConfiguration	YOLO_V2_TINY

Logical and Temporal Assessments

Name	Assessment
 Collision Check	<p>At any point of time, (collisionCount < uint16(1)) must be true</p> <p>REQUIREMENTS</p> <p>Description: Collision</p> <p>Document: Requirements.slreqx</p>

Simulation

System Under Test Information

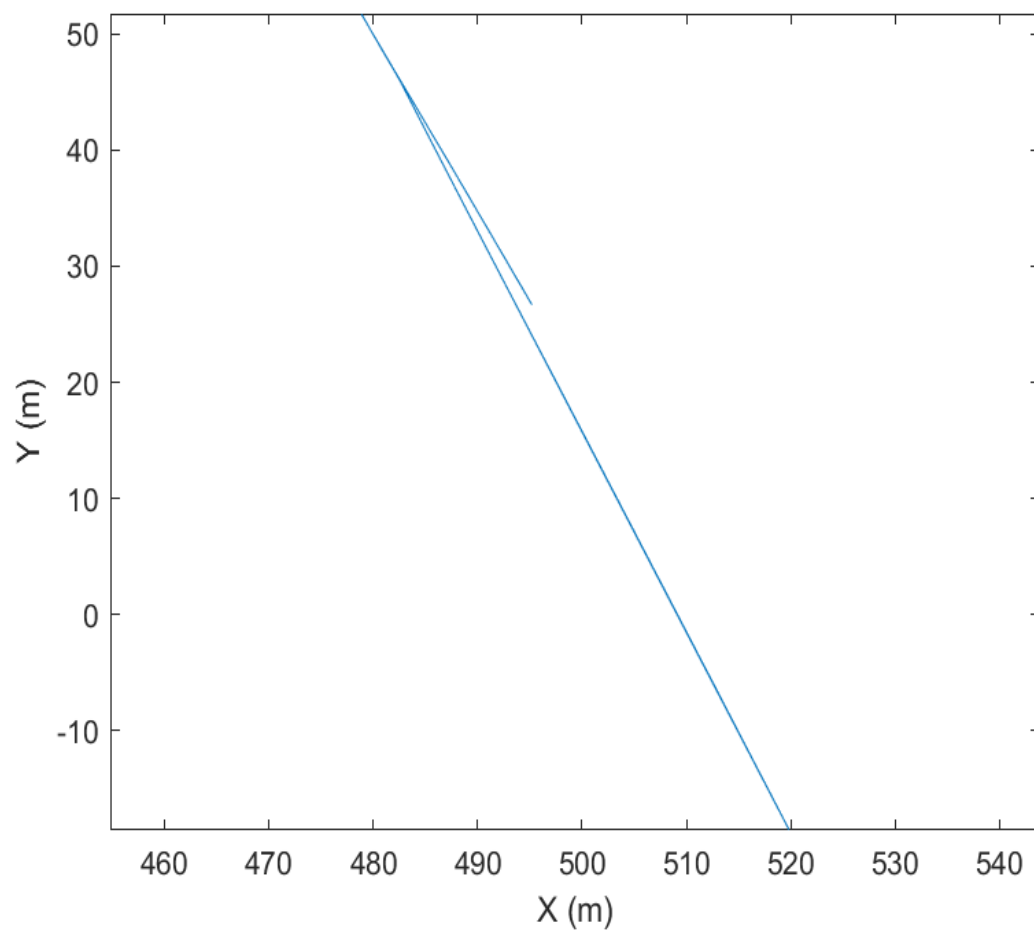
Model: AutoDRIVE_RZR_AEB
Release: Current

Simulation Mode: normal
Override SIL or PIL Mode: 0
Configuration Set: Configuration
Variant Configuration: YOLO_V2_TINY
Start Time: 0
Stop Time: 180
Checksum: 4262443901 1130679155 434270621 2409937954
Simulink Version: 24.2
Model Version: 1.38
Model Author: tsamak
Date: Fri Nov 08 13:11:49 2024
User ID: tsamak
Model Path: C:\Users\tsamak\Downloads\MathWorks RZR AEB
- System Composer\AutoDRIVE_RZR_AEB.slx
Machine Name: AUE-VKROVI-L11
Solver Name: FixedStepDiscrete
Solver Type: Fixed-Step
Fixed Step Size: 1
Simulation Start Time: 2024-11-08 13:14:10
Simulation Stop Time: 2024-11-08 13:16:04
Platform: PCWIN64

Parameter Overrides

Workspace Variable	Value	Source	Model Element
Parameter Set 2			
TimeOfDay	0	model workspace	Simulation/Time of Day
WeatherID	3	model workspace	Simulation/Weather ID

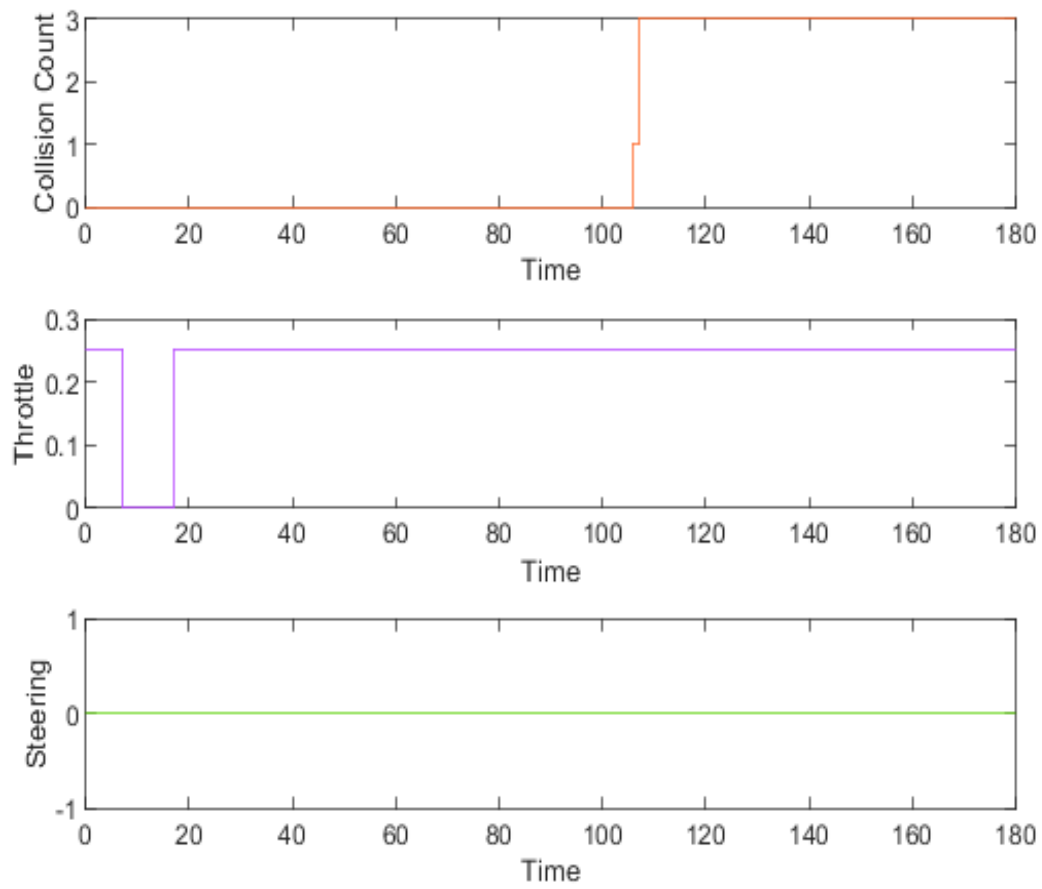
Simulation Callback Plots



Simulation Output

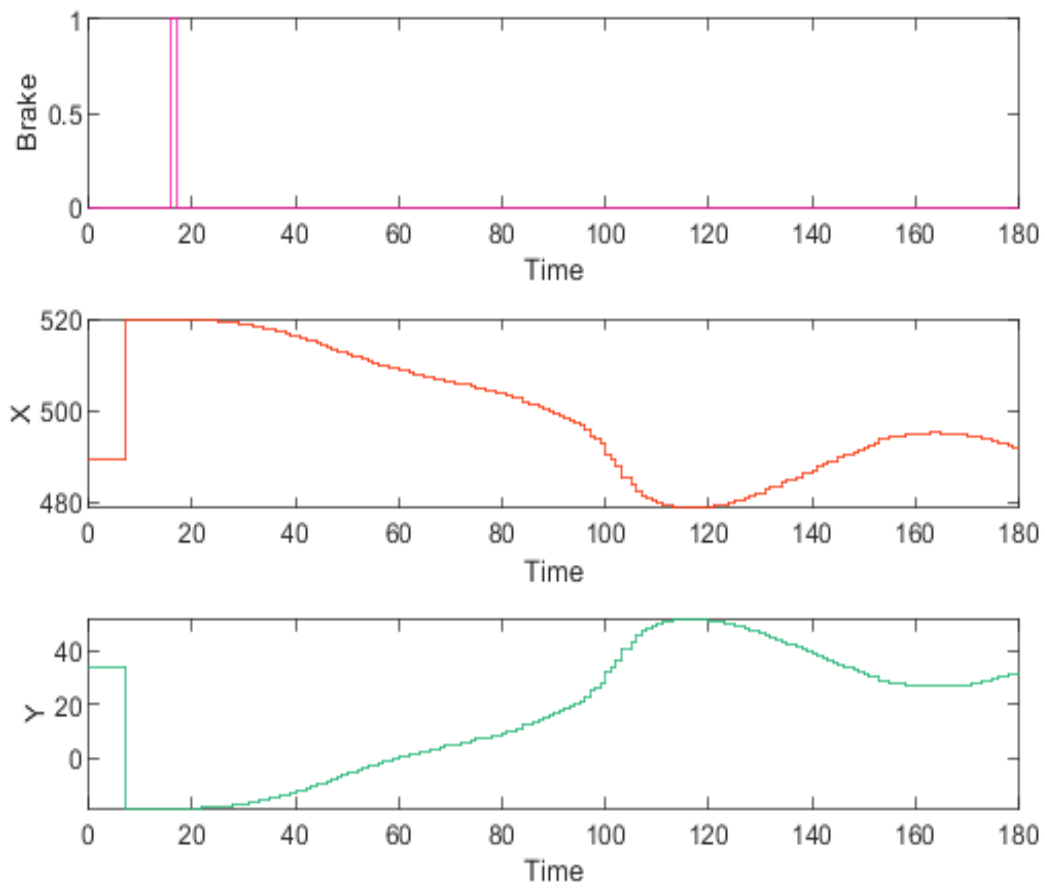
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Collision Count	uint16		1	zoh	union	Link
Throttle	double		1	zoh	union	Link
Steering	double		1	zoh	union	Link
Brake	double		1	zoh	union	Link
X	double		1	zoh	union	Link
Y	double		1	zoh	union	Link
Roll	double		1	zoh	union	Link
Pitch	double		1	zoh	union	Link
Yaw	double		1	zoh	union	Link
Roll Rate	double		1	zoh	union	Link
Pitch Rate	double		1	zoh	union	Link
Yaw Rate	double		1	zoh	union	Link
Acc X	double		1	zoh	union	Link
Acc Y	double		1	zoh	union	Link
Acc Z	double		1	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Collision Count	uint16		1	zoh	union
Throttle	double		1	zoh	union
Steering	double		1	zoh	union



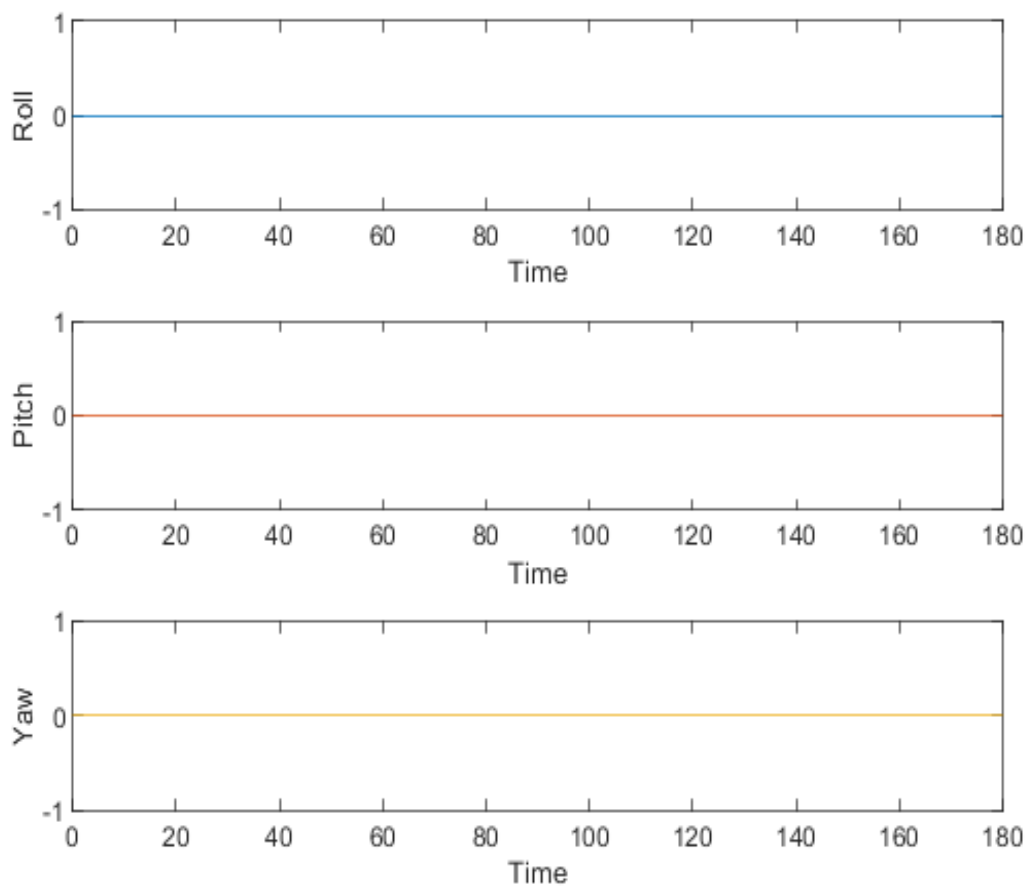
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Name	Data Type	Units	Sample Time	Interp	Sync
Brake	double		1	zoh	union
X	double		1	zoh	union
Y	double		1	zoh	union



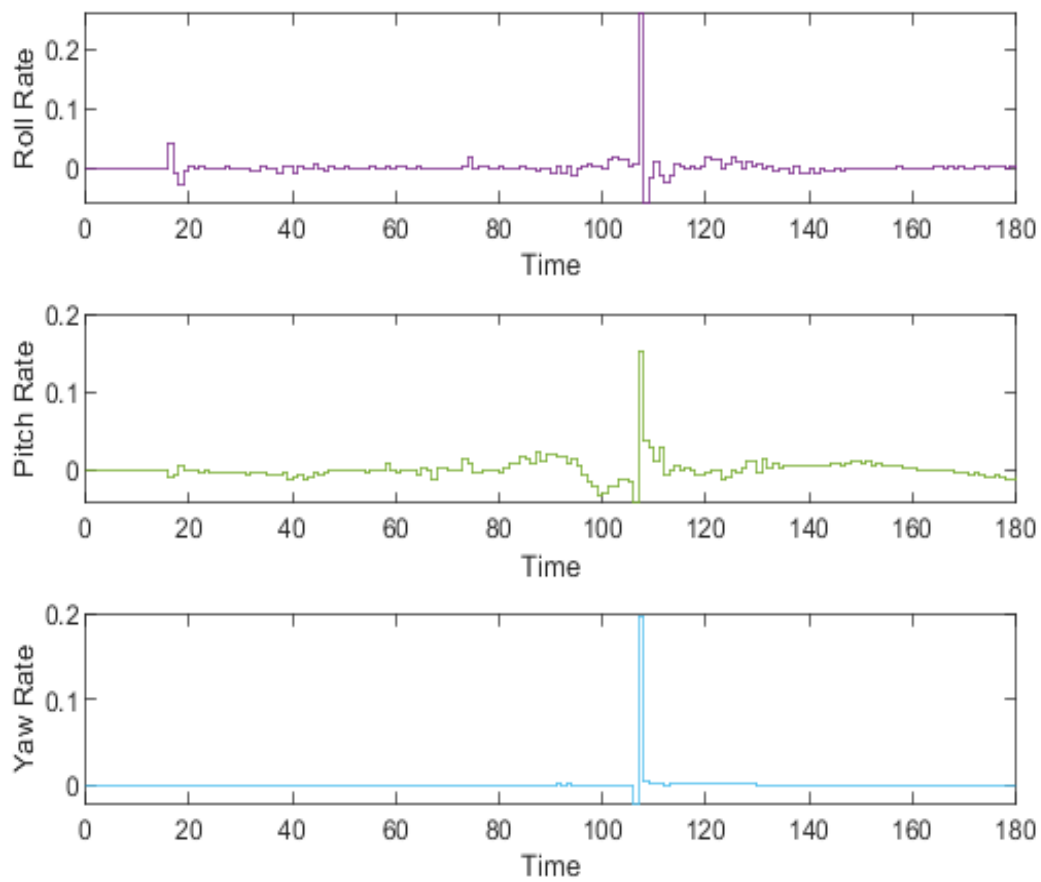
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Name	Data Type	Units	Sample Time	Interp	Sync
Roll	double		1	zoh	union
Pitch	double		1	zoh	union
Yaw	double		1	zoh	union



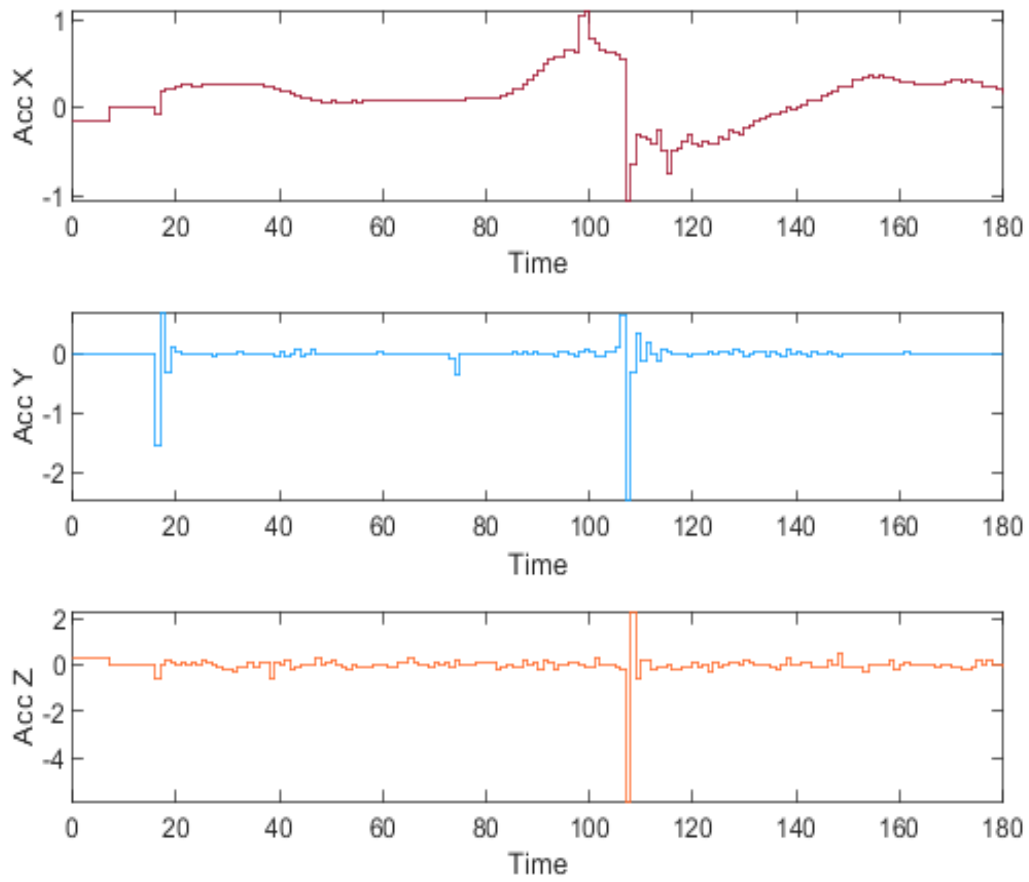
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Name	Data Type	Units	Sample Time	Interp	Sync
Roll Rate	double		1	zoh	union
Pitch Rate	double		1	zoh	union
Yaw Rate	double		1	zoh	union



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



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Test Logs:

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

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Iteration3

Test Result Information

Result Type: Test Iteration Result
Parent: [AEB](#)
Start Time: 08-Nov-2024 13:16:05
End Time: 08-Nov-2024 13:18:53
Outcome: Passed

Test Case Information

Name: Iteration3
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
ParameterSet	Parameter Set 1
VariantConfiguration	YOLO_V4

Logical and Temporal Assessments

Name	Assessment
<div><div><div><div><div></div><div>Collision Check</div></div></div></div></div>	<div>At any point of time, (collisionCount < uint16(1)) must be true</div> <div>REQUIREMENTS</div> <div>Description: Collision</div> <div>Document: Requirements.slreqx</div>

Simulation

System Under Test Information

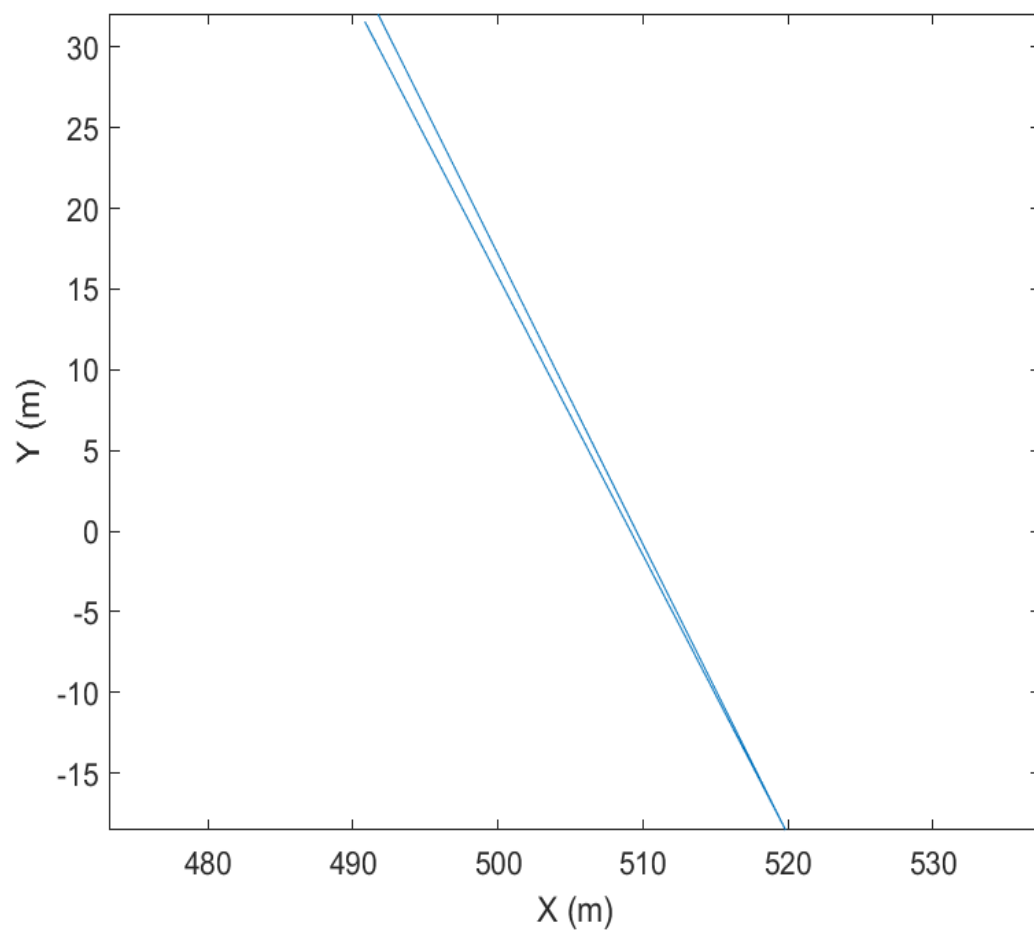
Model: AutoDRIVE_RZR_AEB
Release: Current
Simulation Mode: normal

Override SIL or PIL Mode: 0
Configuration Set: Configuration
Variant Configuration: YOLO_V4
Start Time: 0
Stop Time: 180
Checksum: 4262443901 1130679155 434270621 2409937954
Simulink Version: 24.2
Model Version: 1.38
Model Author: tsamak
Date: Fri Nov 08 13:11:49 2024
User ID: tsamak
Model Path: C:\Users\tsamak\Downloads\MathWorks RZR AEB
- System Composer\AutoDRIVE_RZR_AEB.slx
Machine Name: AUE-VKROVI-L11
Solver Name: FixedStepDiscrete
Solver Type: Fixed-Step
Fixed Step Size: 1
Simulation Start Time: 2024-11-08 13:16:05
Simulation Stop Time: 2024-11-08 13:18:52
Platform: PCWIN64

Parameter Overrides

Workspace Variable	Value	Source	Model Element
Parameter Set 1			
TimeOfDay	560	model workspace	Simulation/Time of Day
WeatherID	6	model workspace	Simulation/Weather ID

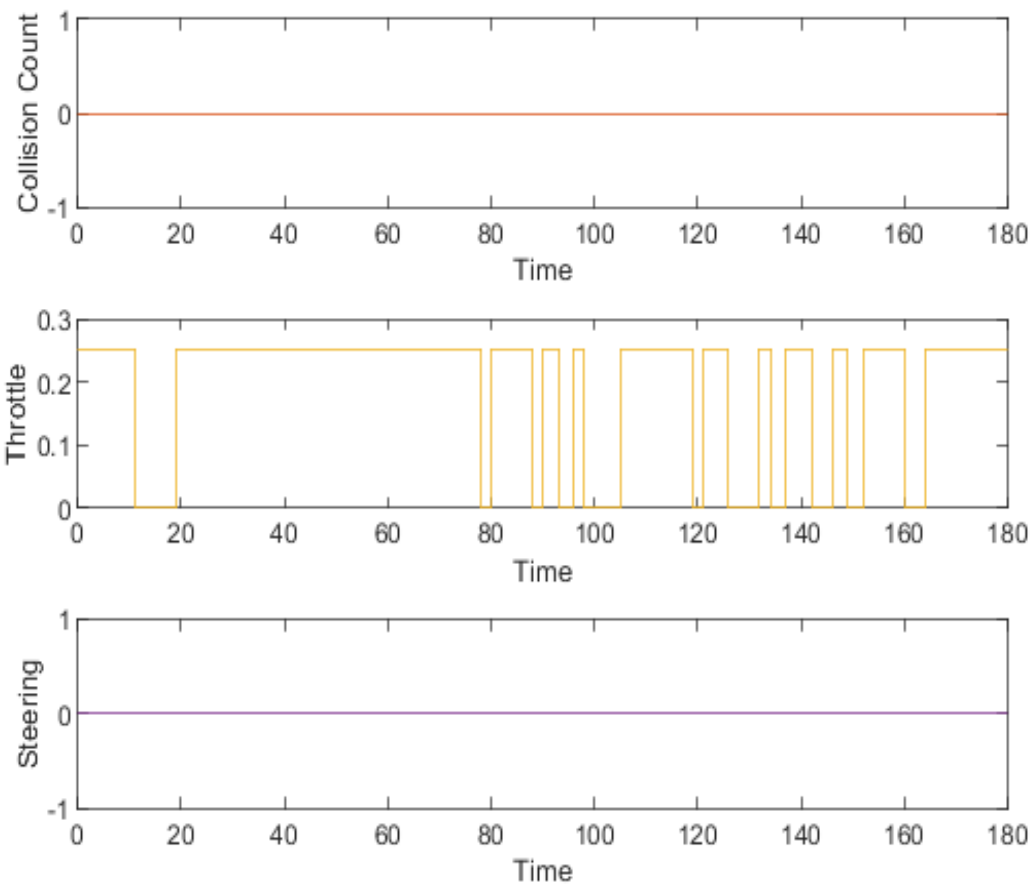
Simulation Callback Plots



Simulation Output

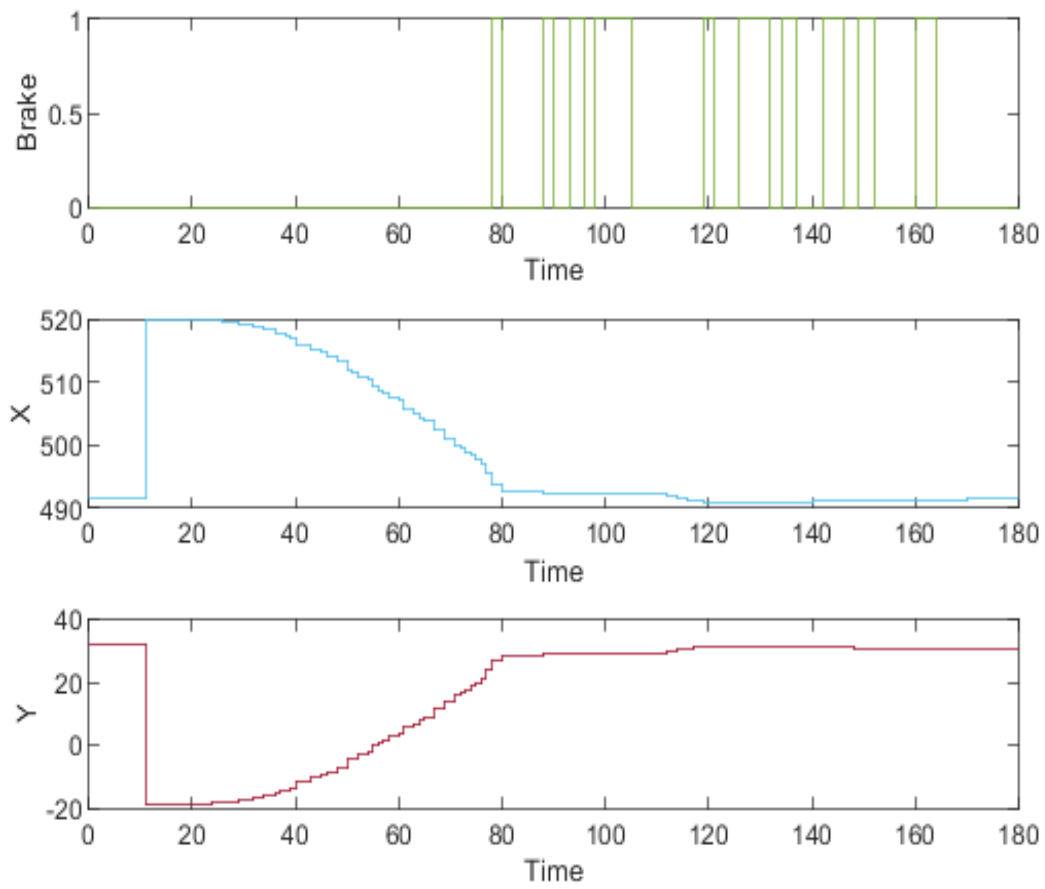
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Collision Count	uint16		1	zoh	union	Link
Throttle	double		1	zoh	union	Link
Steering	double		1	zoh	union	Link
Brake	double		1	zoh	union	Link
X	double		1	zoh	union	Link
Y	double		1	zoh	union	Link
Roll	double		1	zoh	union	Link
Pitch	double		1	zoh	union	Link
Yaw	double		1	zoh	union	Link
Roll Rate	double		1	zoh	union	Link
Pitch Rate	double		1	zoh	union	Link
Yaw Rate	double		1	zoh	union	Link
Acc X	double		1	zoh	union	Link
Acc Y	double		1	zoh	union	Link
Acc Z	double		1	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Collision Count	uint16		1	zoh	union
Throttle	double		1	zoh	union
Steering	double		1	zoh	union



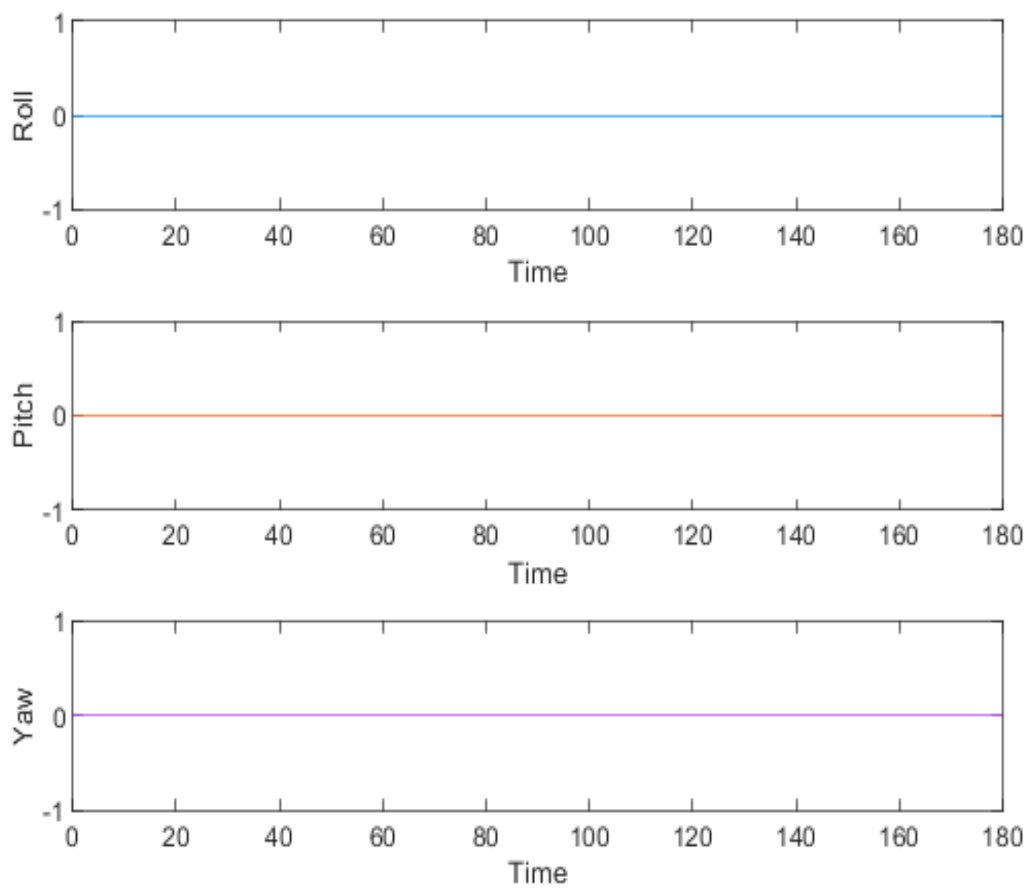
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Name	Data Type	Units	Sample Time	Interp	Sync
Brake	double		1	zoh	union
X	double		1	zoh	union
Y	double		1	zoh	union



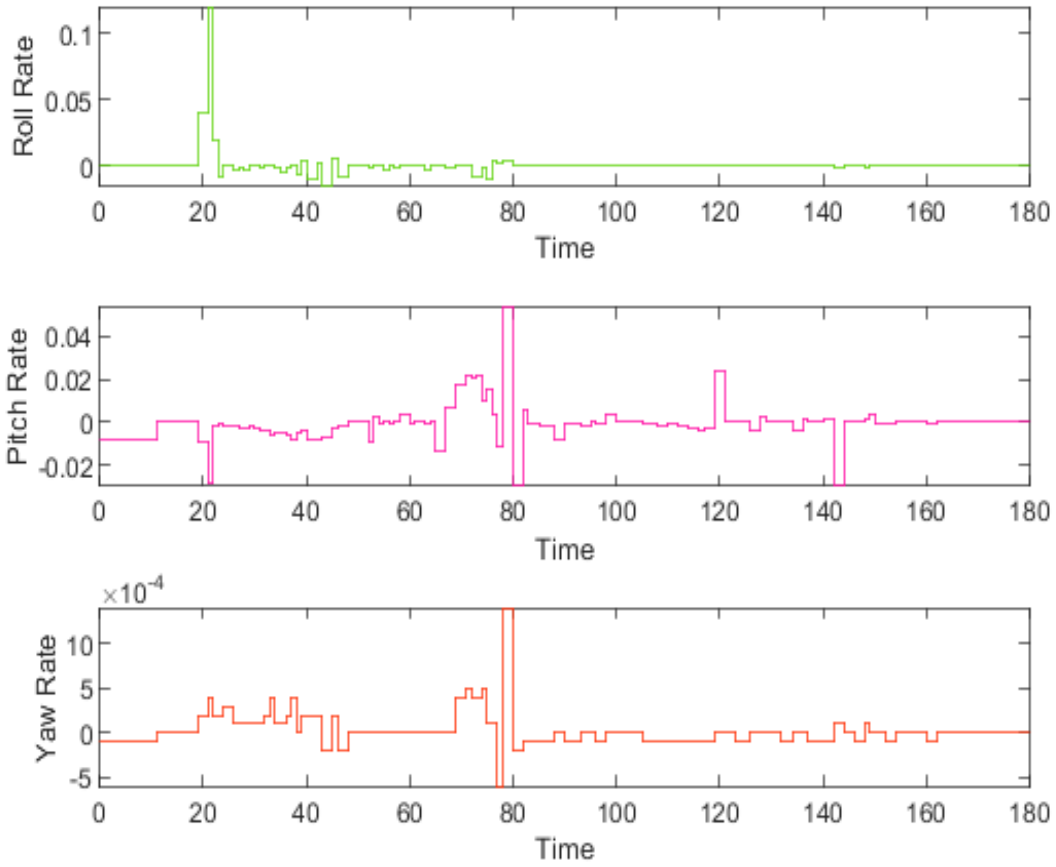
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Name	Data Type	Units	Sample Time	Interp	Sync
Roll	double		1	zoh	union
Pitch	double		1	zoh	union
Yaw	double		1	zoh	union



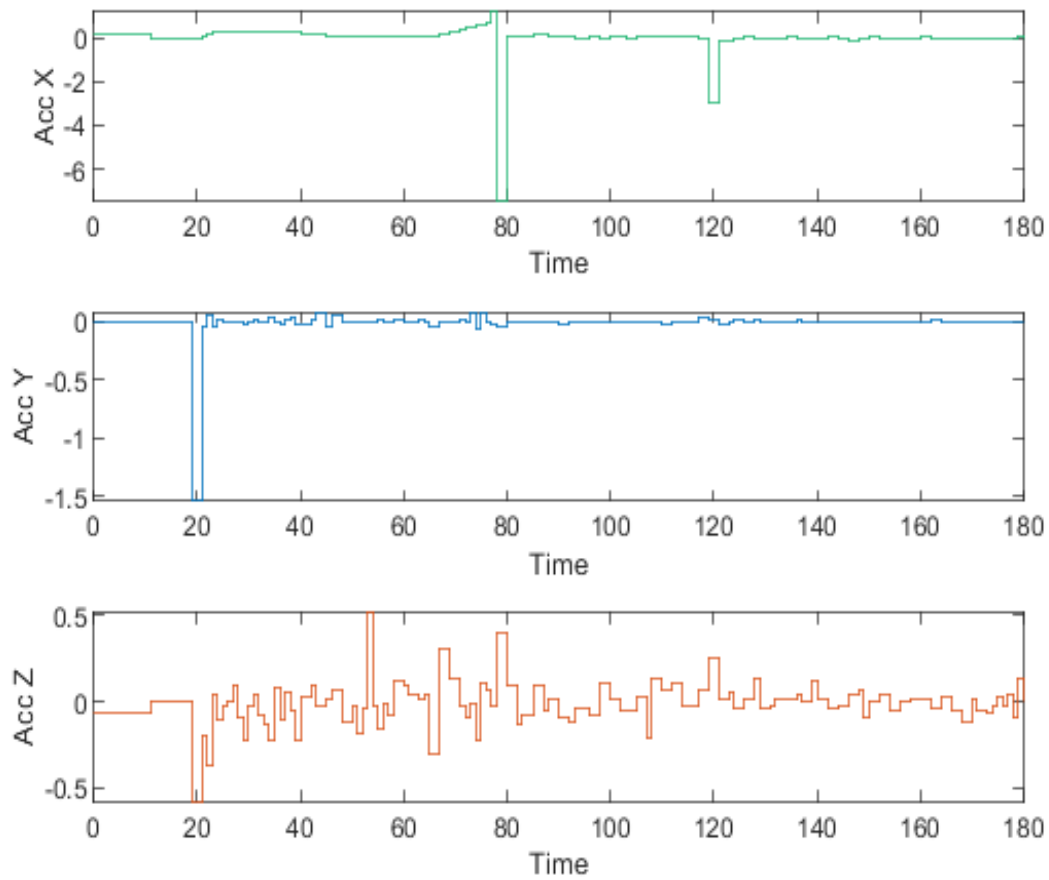
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Name	Data Type	Units	Sample Time	Interp	Sync
Roll Rate	double		1	zoh	union
Pitch Rate	double		1	zoh	union
Yaw Rate	double		1	zoh	union



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



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Test Logs:

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

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Iteration4

Test Result Information

Result Type: Test Iteration Result
Parent: [AEB](#)
Start Time: 08-Nov-2024 13:18:53
End Time: 08-Nov-2024 13:23:04
Outcome: **Failed**
Cause of Failure: **Failed criteria: Assessments**

Test Case Information


Name: Iteration4
Type: Baseline Test

Iteration Settings

Test Overrides

Parameter Name	Value
ParameterSet	Parameter Set 2
VariantConfiguration	YOLO_V4

Logical and Temporal Assessments

Name	Assessment
 Collision Check	<p>At any point of time, (collisionCount < uint16(1)) must be true</p> <p>REQUIREMENTS</p> <p>Description: Collision</p> <p>Document: Requirements.slreqx</p>

Simulation

System Under Test Information

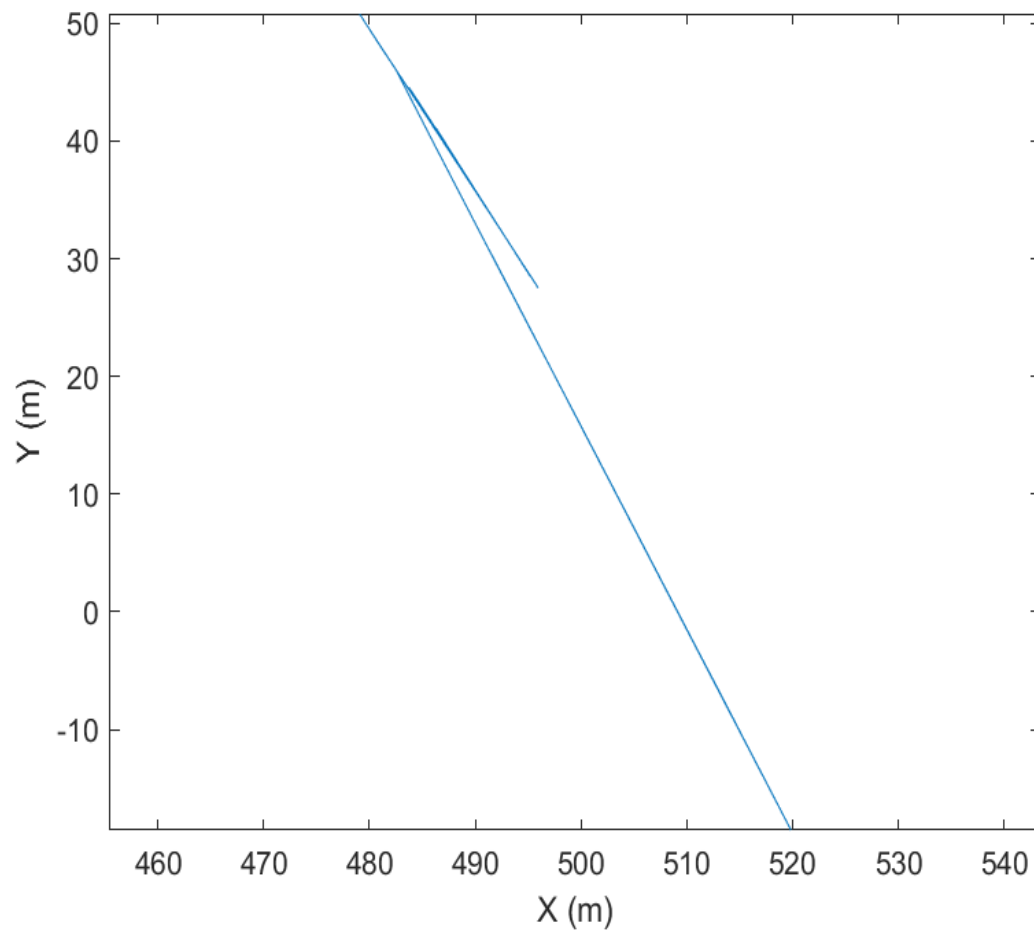
Model: AutoDRIVE_RZR_AEB
Release: Current

Simulation Mode: normal
Override SIL or PIL Mode: 0
Configuration Set: Configuration
Variant Configuration: YOLO_V4
Start Time: 0
Stop Time: 180
Checksum: 4262443901 1130679155 434270621 2409937954
Simulink Version: 24.2
Model Version: 1.38
Model Author: tsamak
Date: Fri Nov 08 13:11:49 2024
User ID: tsamak
Model Path: C:\Users\tsamak\Downloads\MathWorks RZR AEB
- System Composer\AutoDRIVE_RZR_AEB.slx
Machine Name: AUE-VKROVI-L11
Solver Name: FixedStepDiscrete
Solver Type: Fixed-Step
Fixed Step Size: 1
Simulation Start Time: 2024-11-08 13:18:53
Simulation Stop Time: 2024-11-08 13:23:03
Platform: PCWIN64

Parameter Overrides

Workspace Variable	Value	Source	Model Element
Parameter Set 2			
TimeOfDay	0	model workspace	Simulation/Time of Day
WeatherID	3	model workspace	Simulation/Weather ID

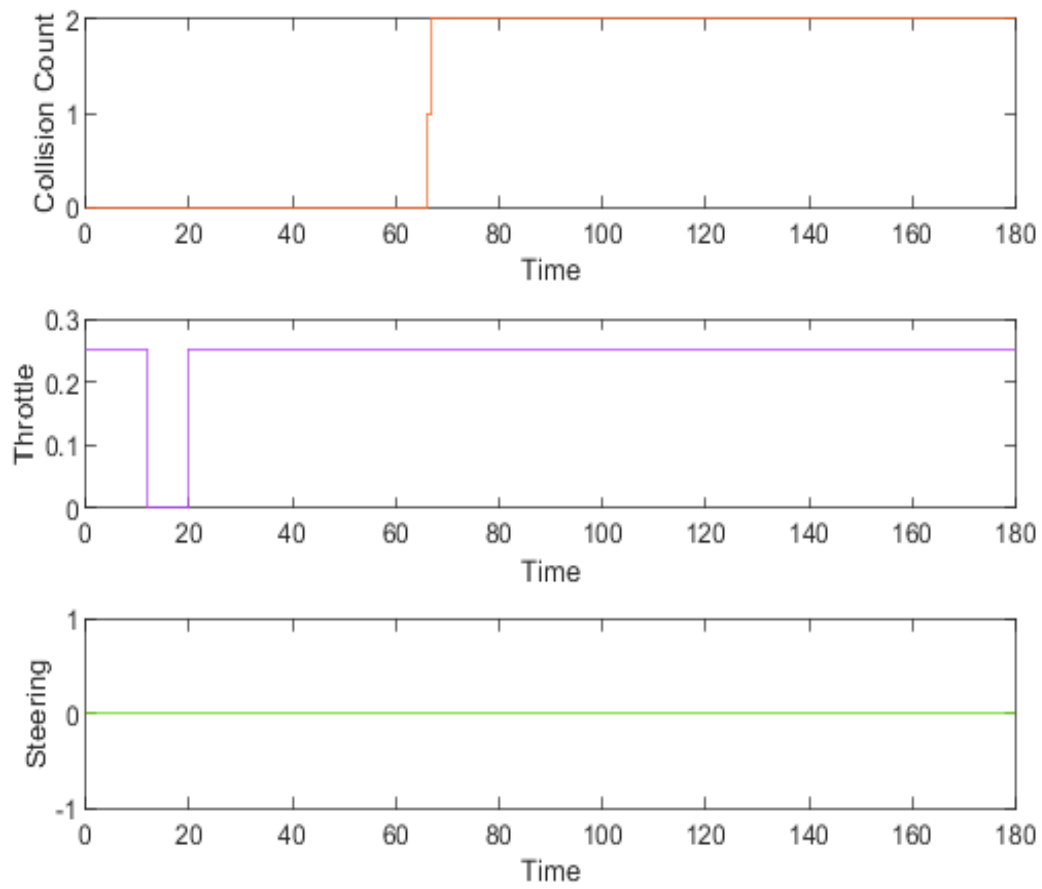
Simulation Callback Plots



Simulation Output

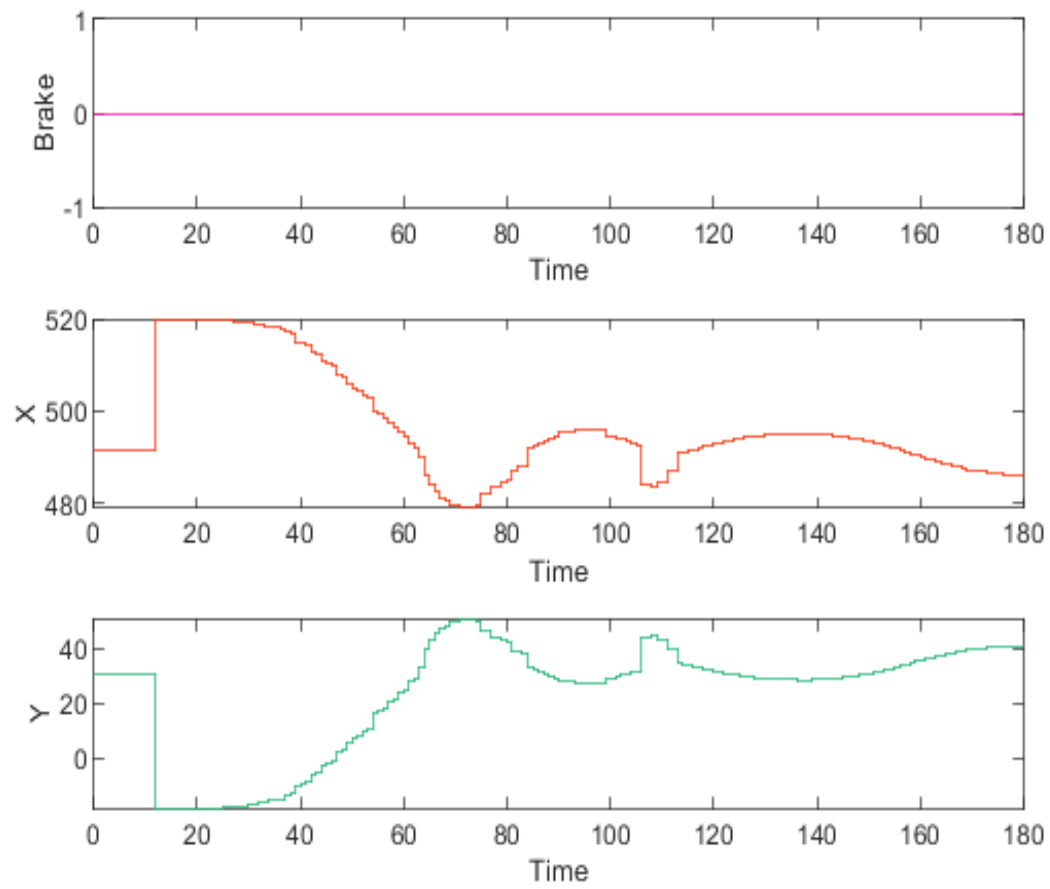
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Collision Count	uint16		1	zoh	union	Link
Throttle	double		1	zoh	union	Link
Steering	double		1	zoh	union	Link
Brake	double		1	zoh	union	Link
X	double		1	zoh	union	Link
Y	double		1	zoh	union	Link
Roll	double		1	zoh	union	Link
Pitch	double		1	zoh	union	Link
Yaw	double		1	zoh	union	Link
Roll Rate	double		1	zoh	union	Link
Pitch Rate	double		1	zoh	union	Link
Yaw Rate	double		1	zoh	union	Link
Acc X	double		1	zoh	union	Link
Acc Y	double		1	zoh	union	Link
Acc Z	double		1	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Collision Count	uint16		1	zoh	union
Throttle	double		1	zoh	union
Steering	double		1	zoh	union



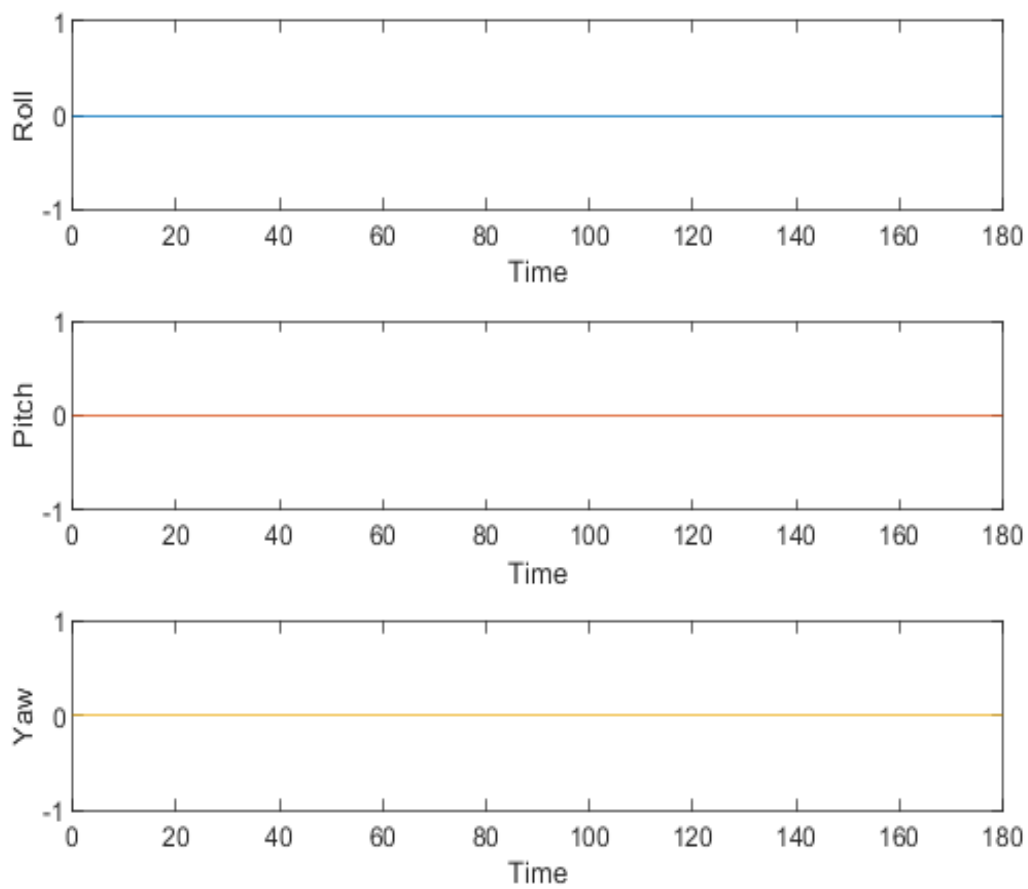
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Name	Data Type	Units	Sample Time	Interp	Sync
Brake	double		1	zoh	union
X	double		1	zoh	union
Y	double		1	zoh	union



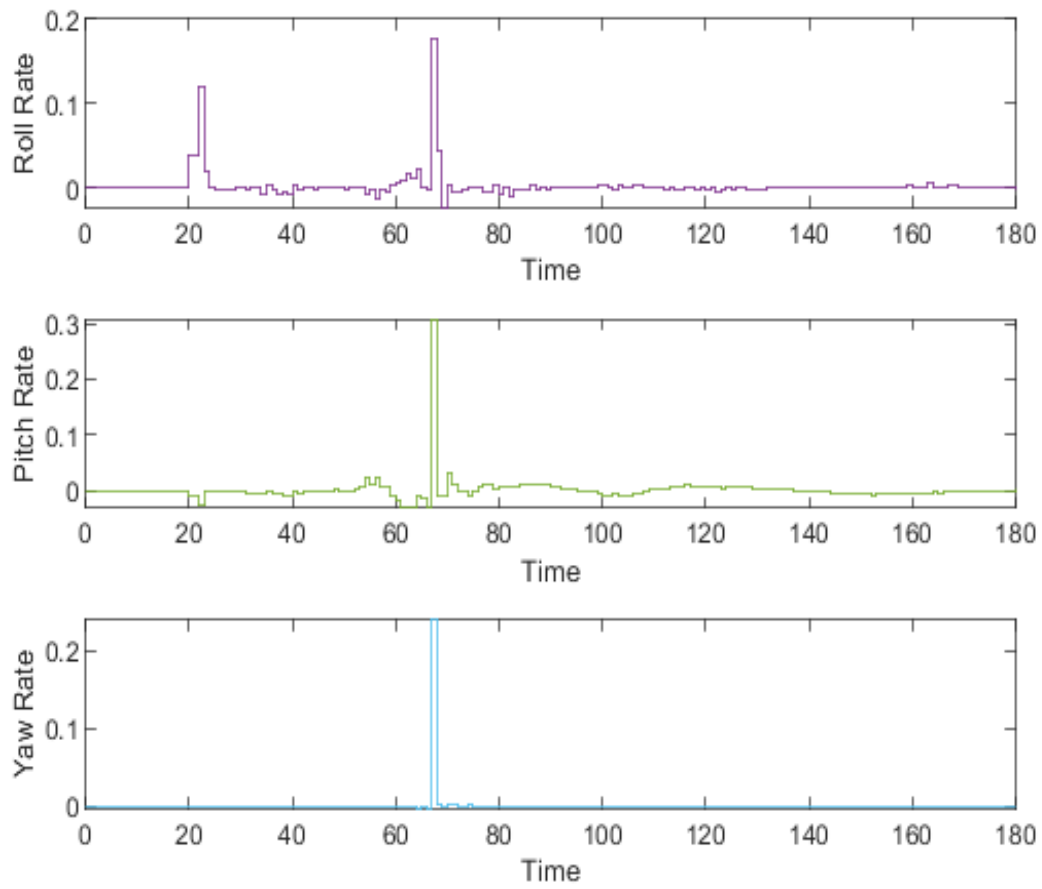
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Name	Data Type	Units	Sample Time	Interp	Sync
Roll	double		1	zoh	union
Pitch	double		1	zoh	union
Yaw	double		1	zoh	union



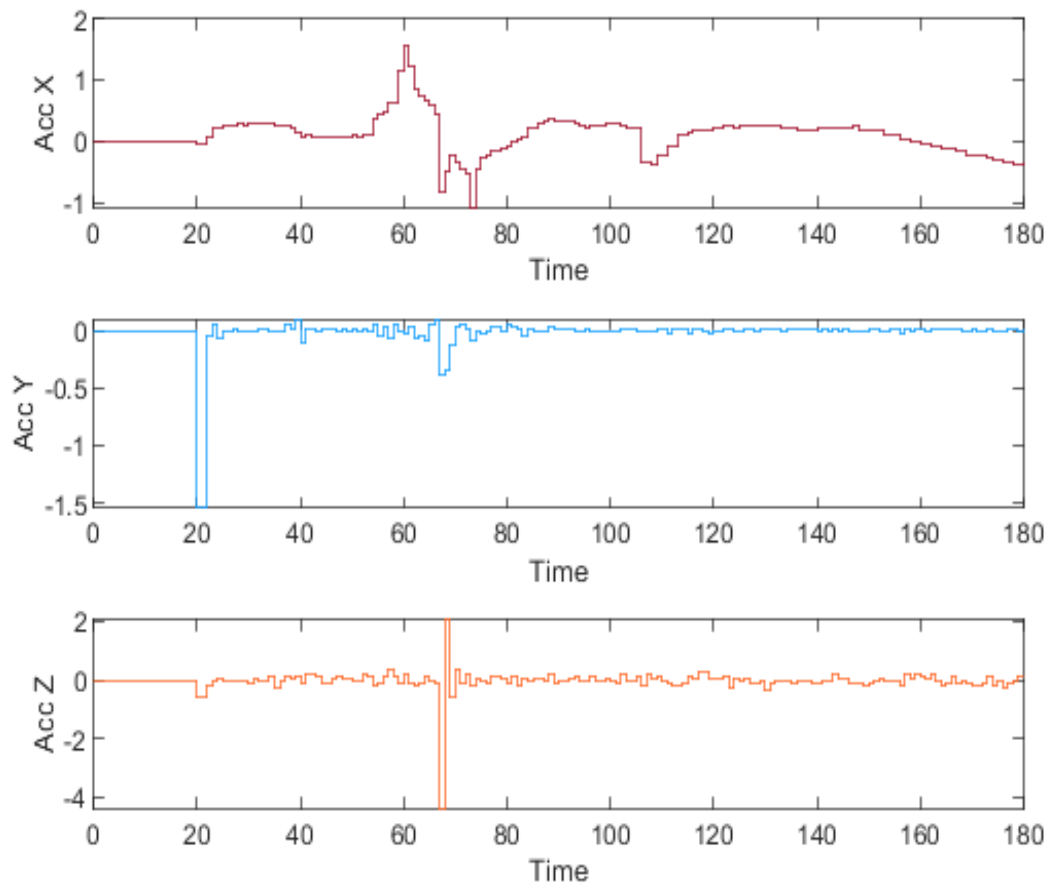
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Name	Data Type	Units	Sample Time	Interp	Sync
Roll Rate	double		1	zoh	union
Pitch Rate	double		1	zoh	union
Yaw Rate	double		1	zoh	union



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



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Test Logs:

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

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