


Report Generated by Test Manager

Title: Test_Model_SiL Verification Report
Author: Executed for rarora by Jenkins
Date: 15-Oct-2020 10:41:43

Test Environment

Platform: PCWIN64
MATLAB: (R2020b)



Summary

Name	Outcome	Duration (Seconds)
Results: 2020-Oct-15 10:40:25	2 	61.029
 Mode Logic B2B	2 	61.029
 B2B Tests	2 	61.03
 Mode Logic TestSequence		37.02
 Mode Logic ExcelImport		19.084

Results: 2020-Oct-15 10:40:25

Result Type: Result Set
Parent: None
Start Time: 15-Oct-2020 10:40:29
End Time: 15-Oct-2020 10:41:30
Outcome: Total: 2, **Passed: 2**

Aggregated Coverage Results

Analyzed Model	Sim Mode	Complexity	Decision	Condition	MCDC	Function	Function call	Execution
 Mode Logic Ex	Normal	22	81%	83%	50%	--	--	--
 Mode Logic Ex	SIL	18	89%	83%	50%	100%	100%	87%

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Mode_Logic_B2B

Test Result Information

Result Type: Test File Result
Parent: [Results: 2020-Oct-15 10:40:25](#)
Start Time: 15-Oct-2020 10:40:29
End Time: 15-Oct-2020 10:41:30
Outcome: Total: 2, **Passed: 2**

Test Suite Information

Name: Mode_Logic_B2B

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B2B_Tests

Test Result Information

Result Type: Test Suite Result
Parent: [Mode Logic B2B](#)
Start Time: 15-Oct-2020 10:40:29
End Time: 15-Oct-2020 10:41:30
Outcome: Total: 2, **Passed: 2**

Test Suite Information

Name: B2B_Tests

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Mode_Logic_TestSequence

Test Result Information

Result Type: Test Case Result

Parent: [B2B_Tests](#)

Start Time: 15-Oct-2020 10:40:29

End Time: 15-Oct-2020 10:41:06

Outcome: **Passed**

Test Case Information

Name: Mode_Logic_TestSequence

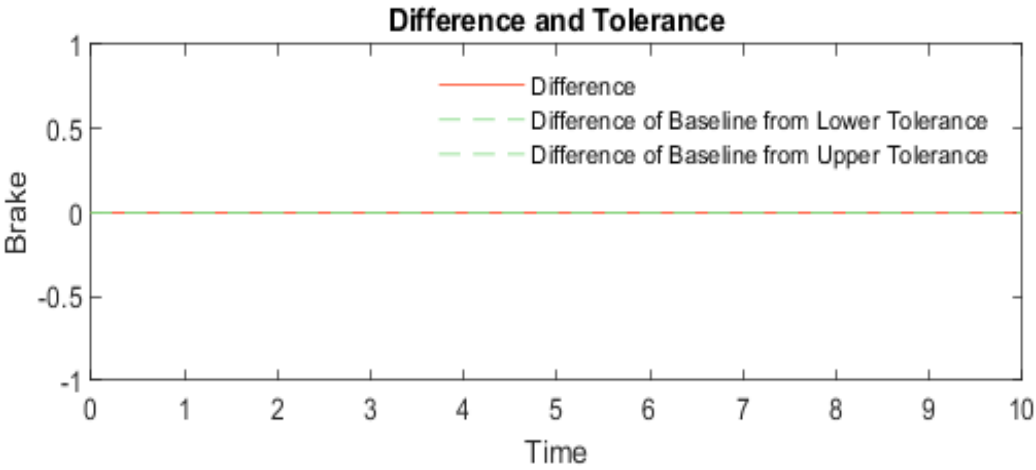
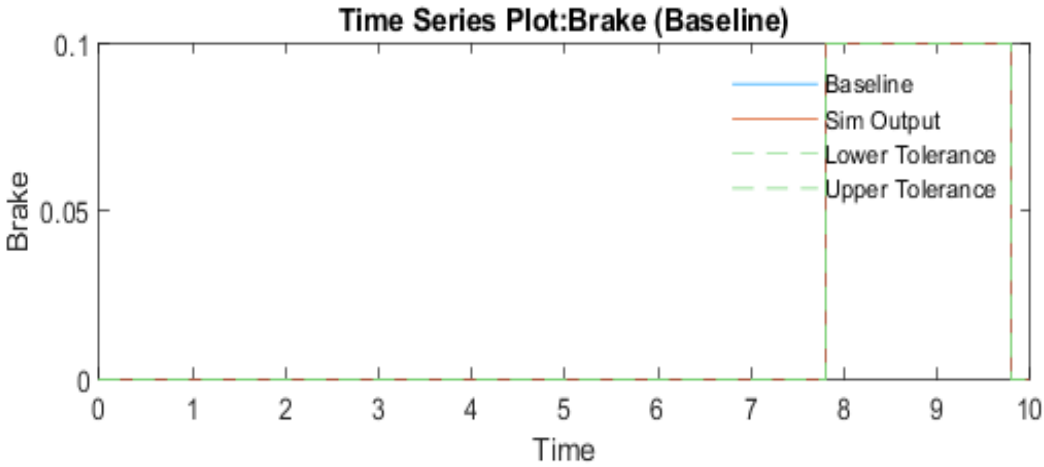
Type: Equivalence Test

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
✔ Brake	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✔ Mot_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✔ Gen_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✔ ICE_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✔ Brake	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✔ Charge	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✔ EngSpeed	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✔ Speed	0	0	0	0	0	double	km/hr	0.001	double		0.001	zoh	union	Link
✔ Mot_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link

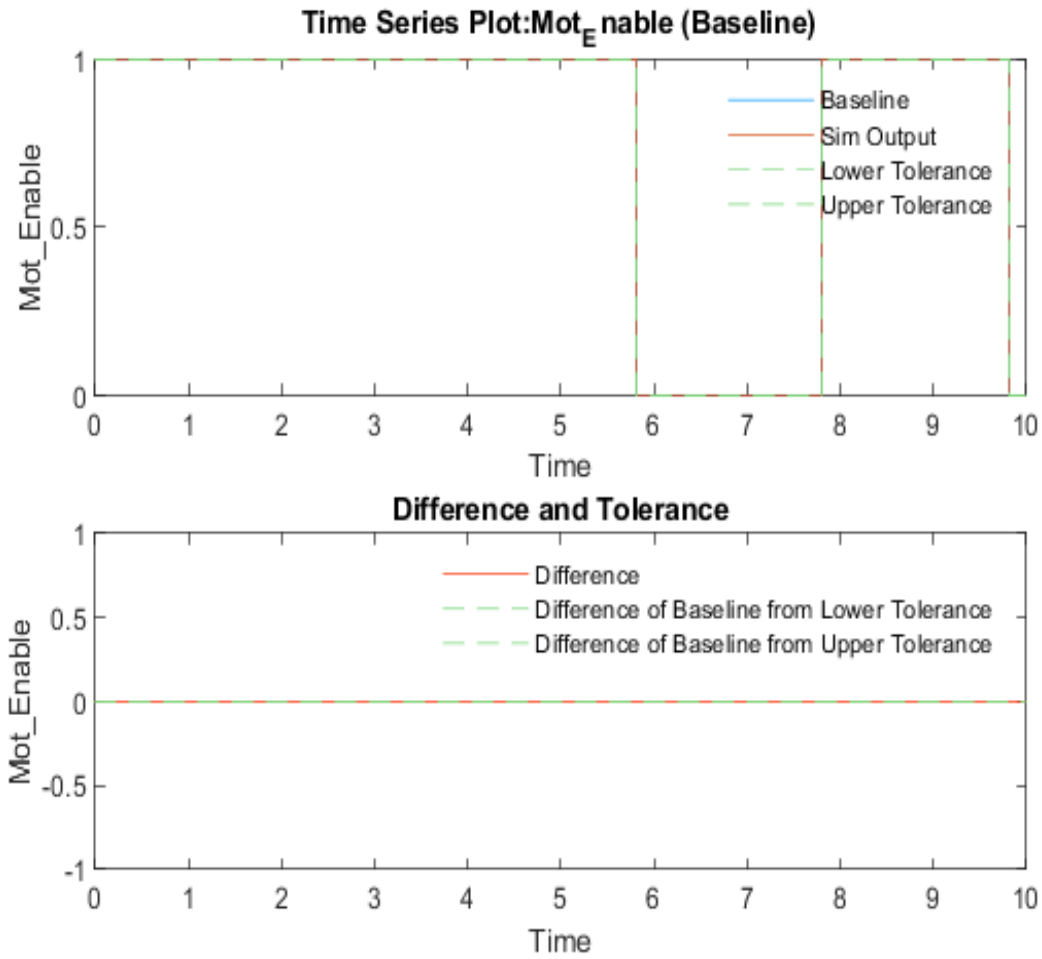
✓ Gen_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✓ ICE_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link

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
✓ Brake	0	0	0	0	0	double		0.001	double		0.001	zoh	union



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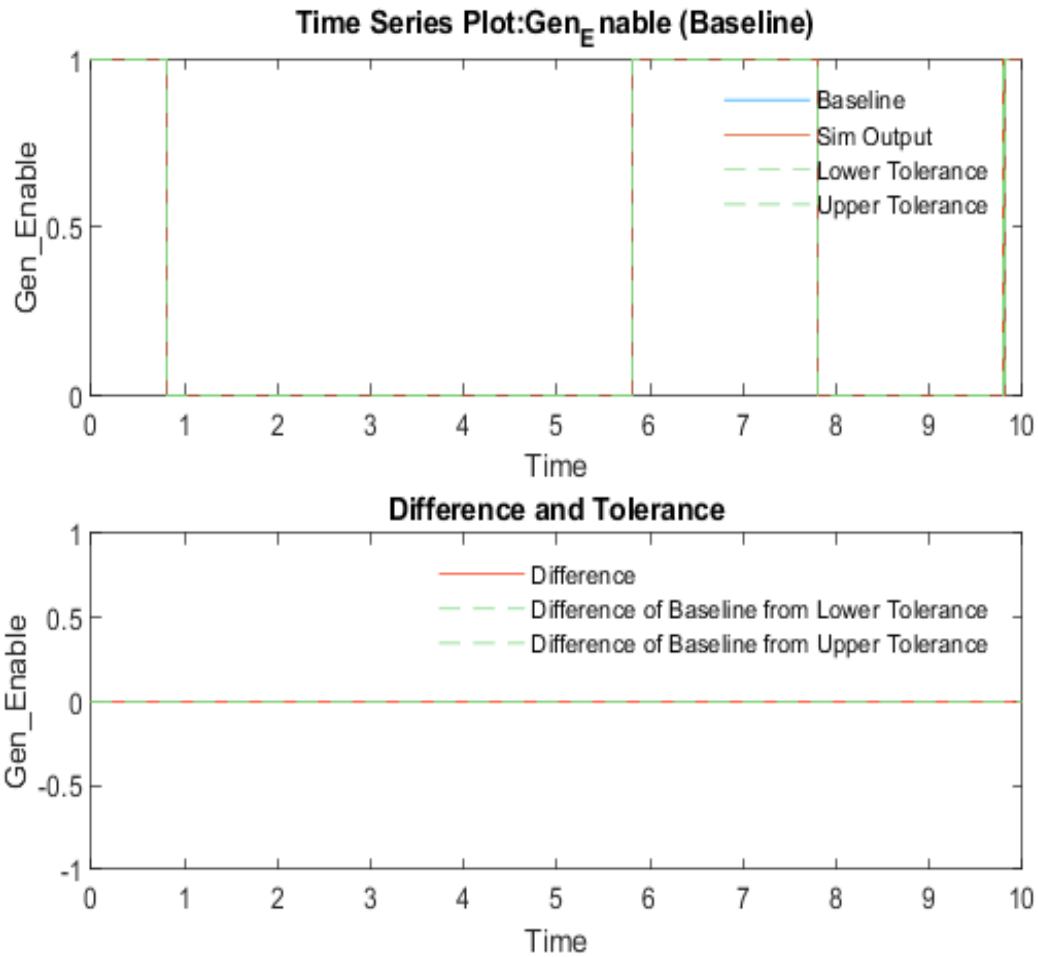
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
 Mot_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union



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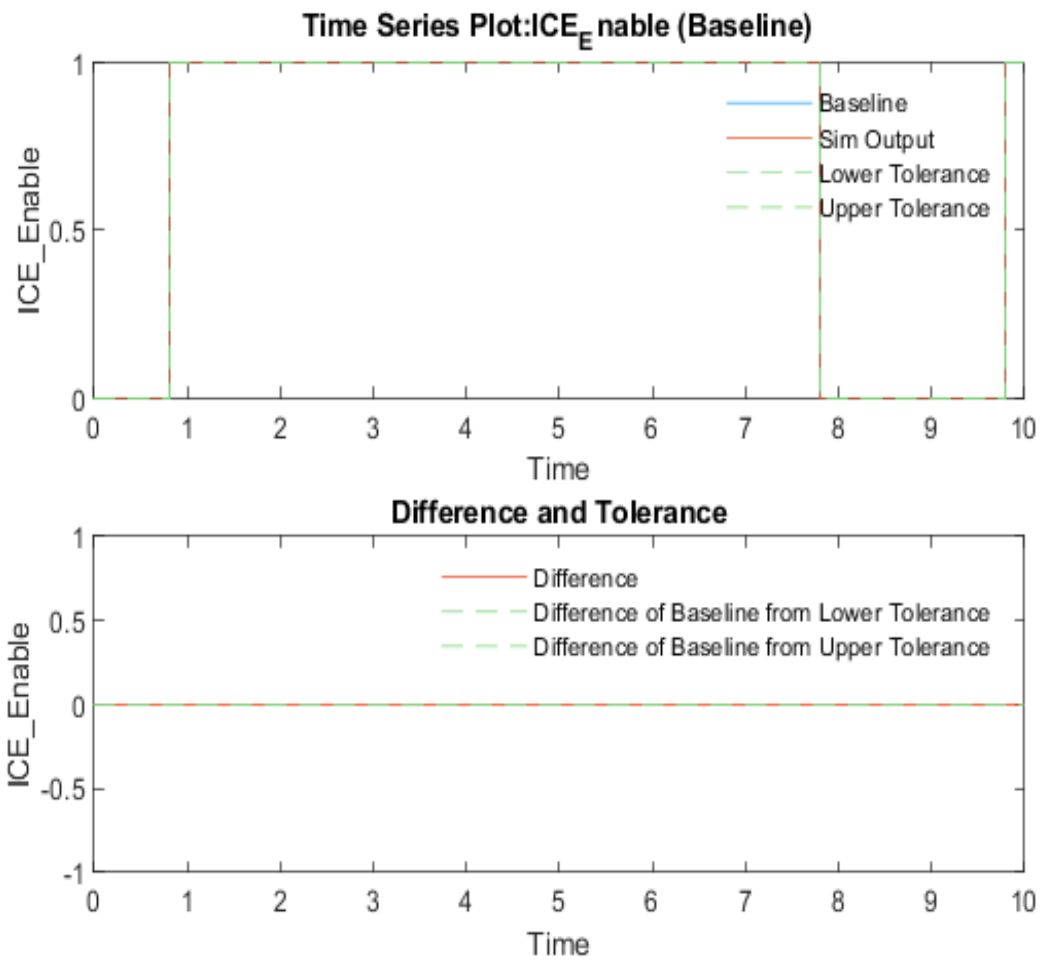
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
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✓ Gen_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union
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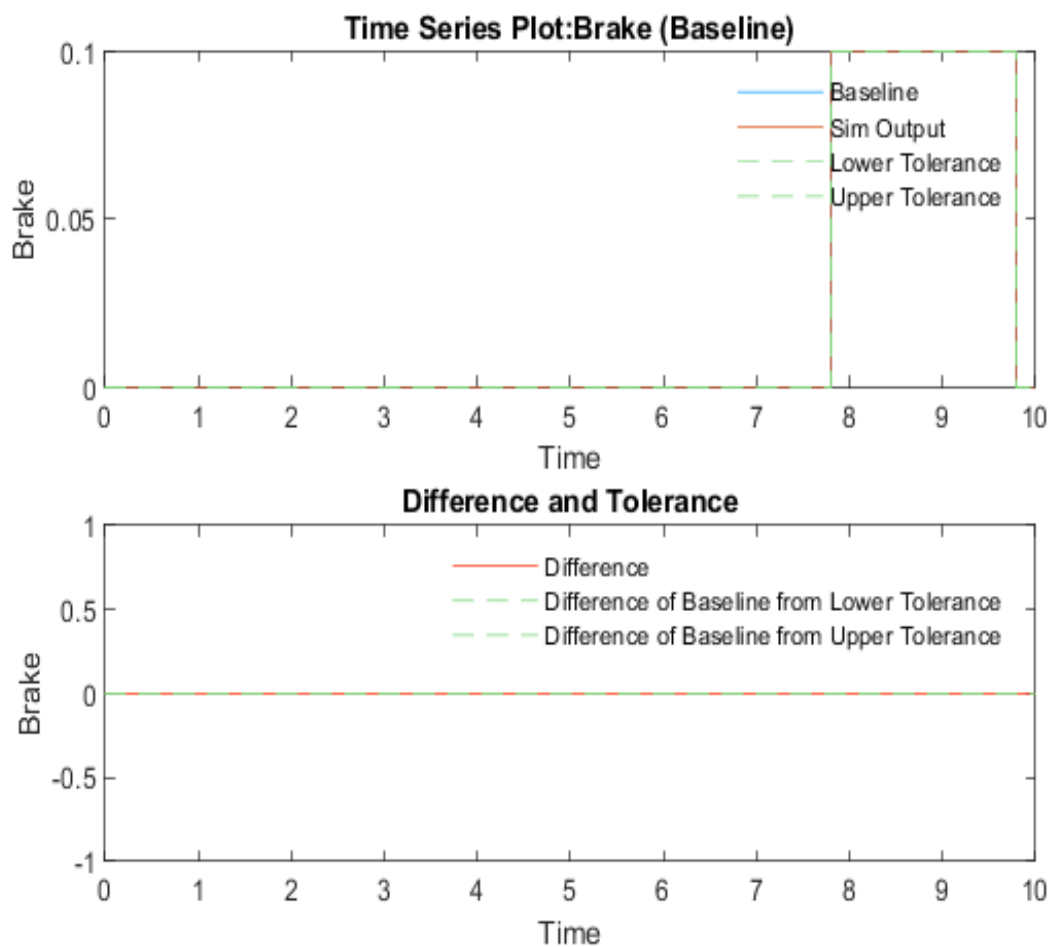
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ ICE_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union



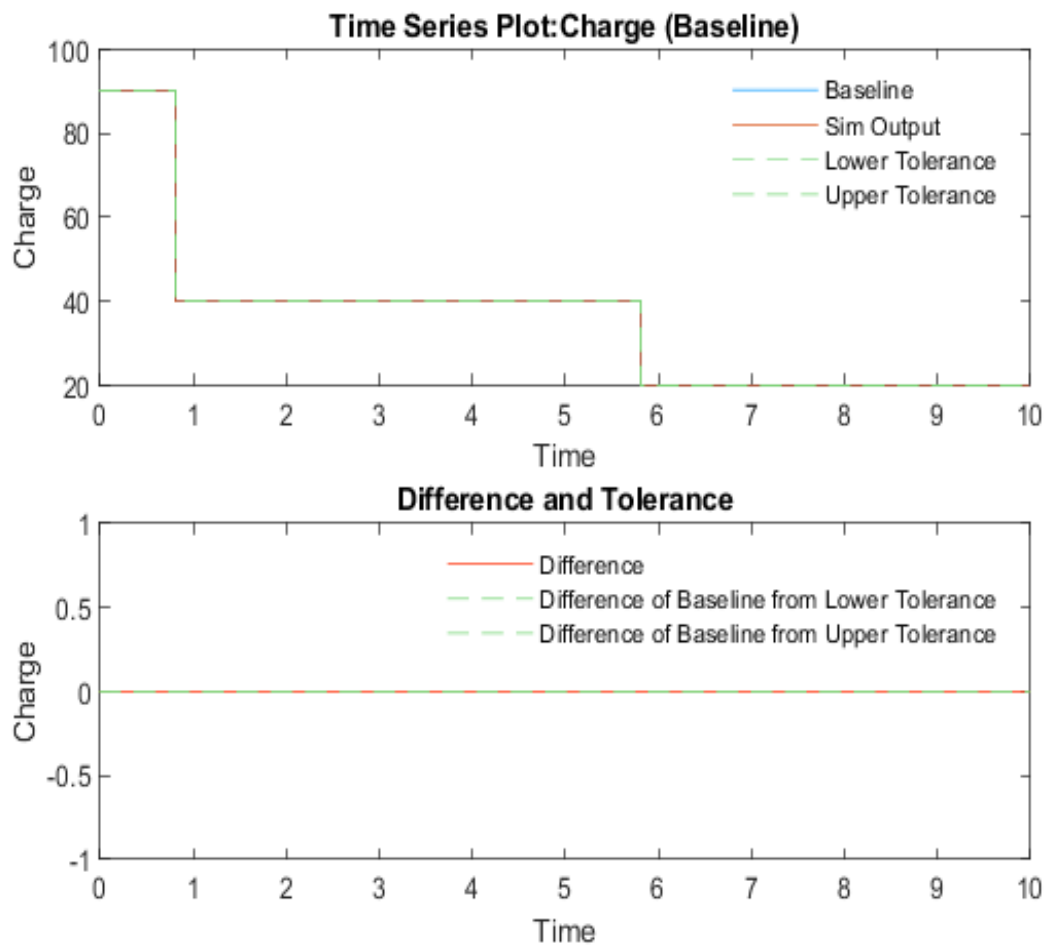
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ Brake	0	0	0	0	0	double		0.001	double		0.001	zoh	union



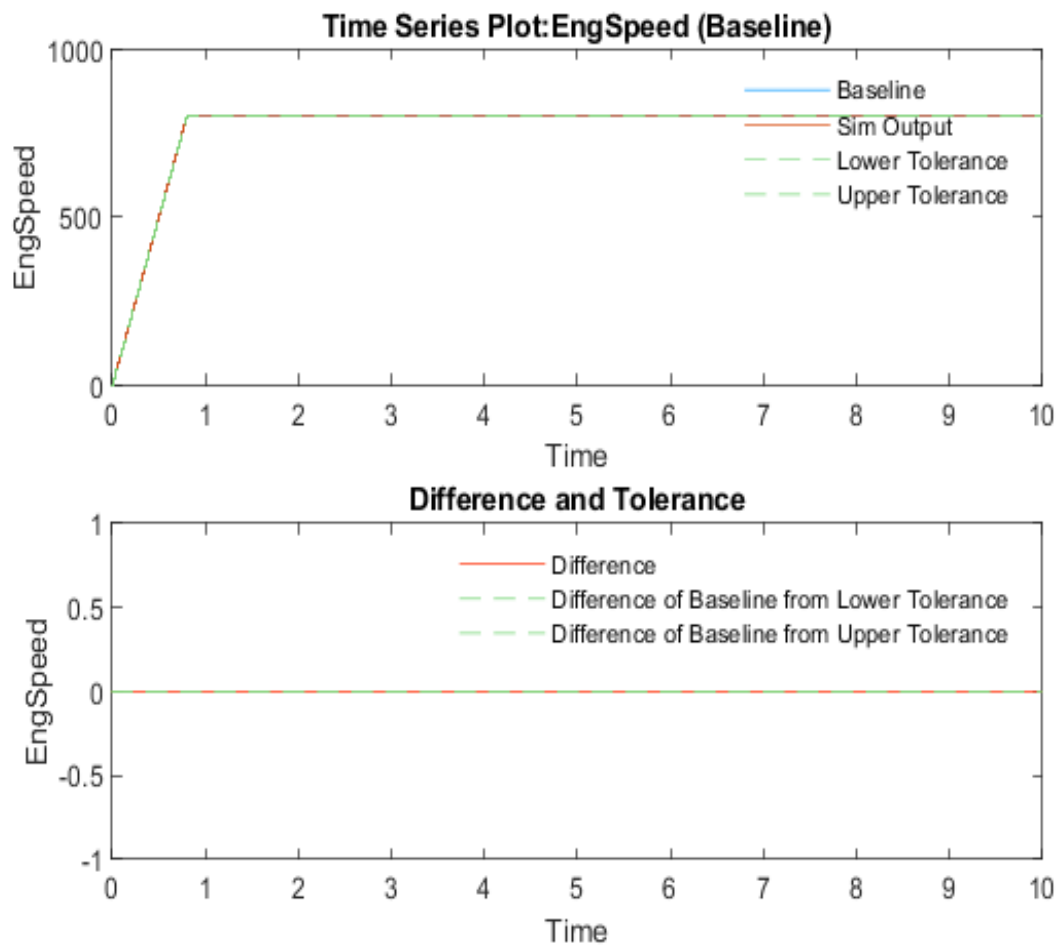
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ Charge	0	0	0	0	0	double		0.001	double		0.001	zoh	union



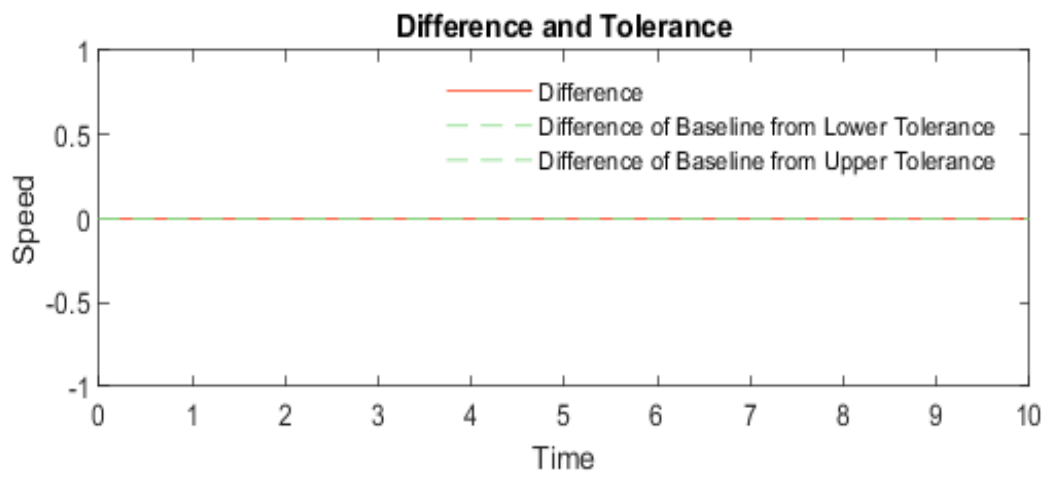
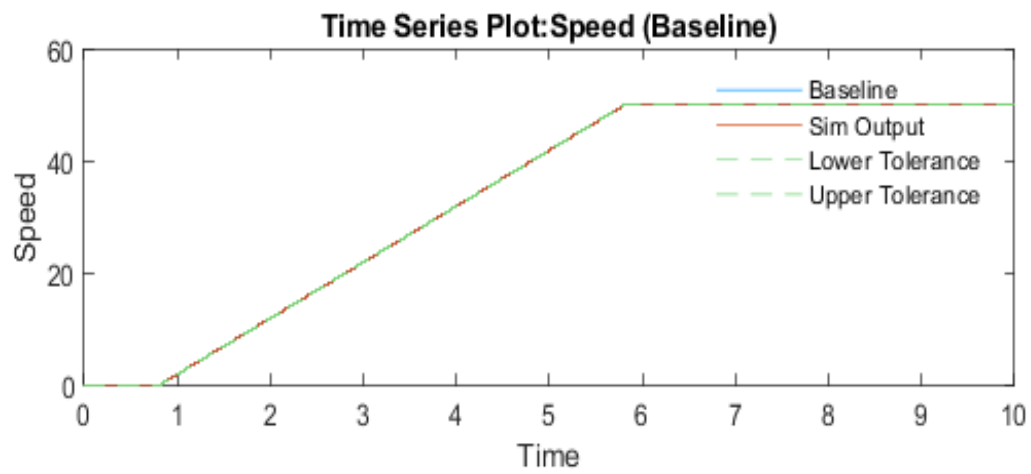
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ EngSpeed	0	0	0	0	0	double		0.001	double		0.001	zoh	union



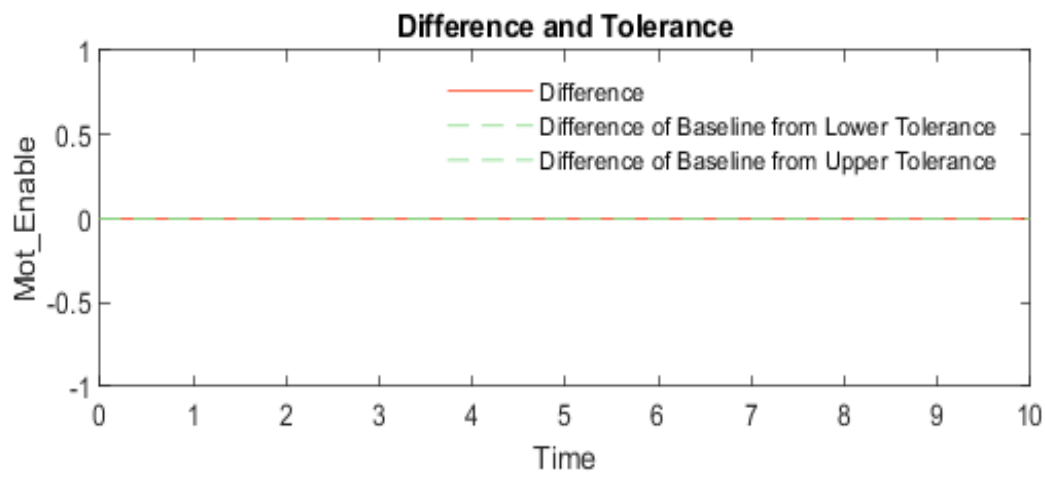
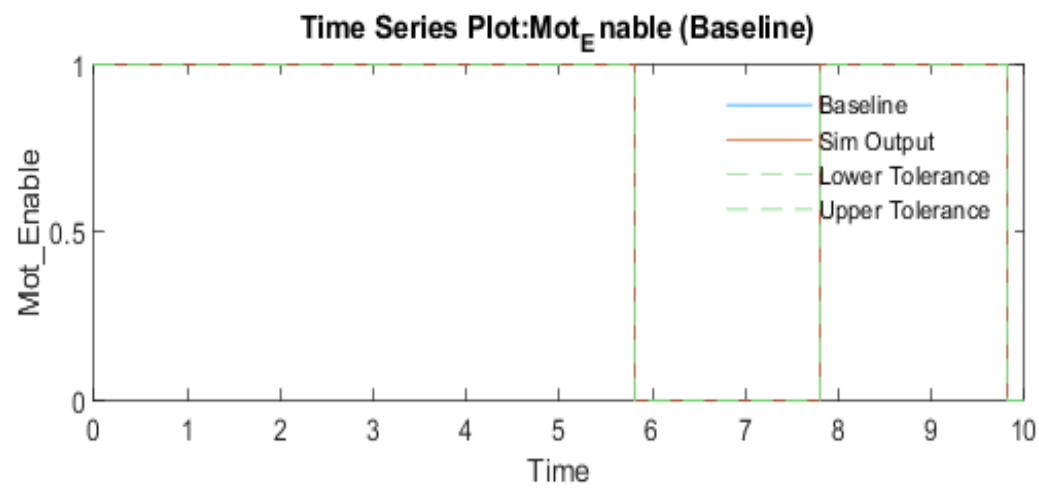
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ Speed	0	0	0	0	0	double	km/hr	0.001	double		0.001	zoh	union



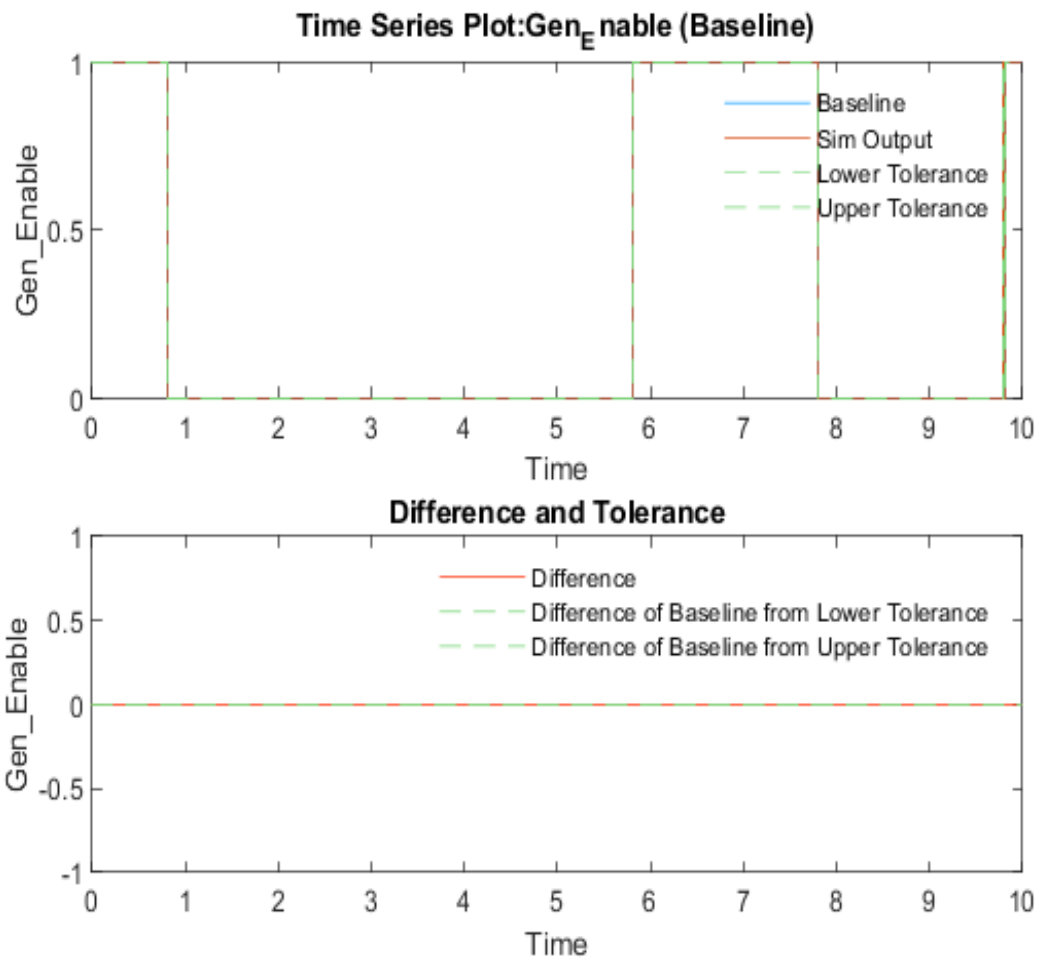
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✔ Mot_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union



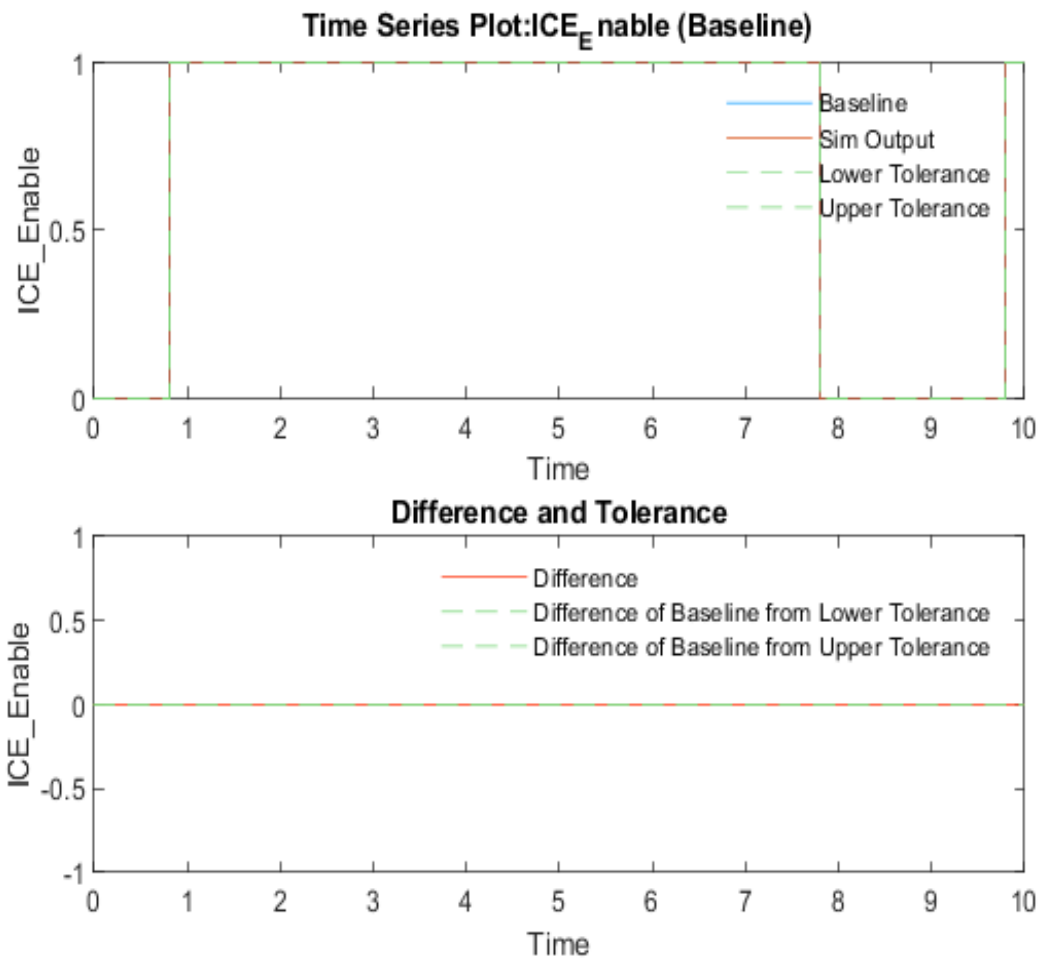
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ Gen_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union



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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
✓ ICE_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union





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Logical and Temporal Assessments 1

Name	Assessment
<div> <div></div> <div>Low Charge Engine Active</div> </div>	At any point in time, if ((GeneratorEnable == True) & (EngineEnable == True)) becomes true then, with no delay, (MotorEnable == False) must be true
<div> <div></div> <div>Regenerative Behaviour</div> </div>	At any point in time, if (Brake >= FivePercent) becomes true then, with no delay, (MotorEnable == True) must be true

Logical and Temporal Assessments 2

Name	Assessment
 Low Charge Engine Active	At any point in time, if ((GeneratorEnable == True) & (EngineEnable == True)) becomes true then, with no delay, (MotorEnable == False) must be true
 Regenerative Behaviour	At any point in time, if (Brake >= FivePercent) becomes true then, with no delay, (MotorEnable == True) must be true

Simulation 1

System Under Test Information

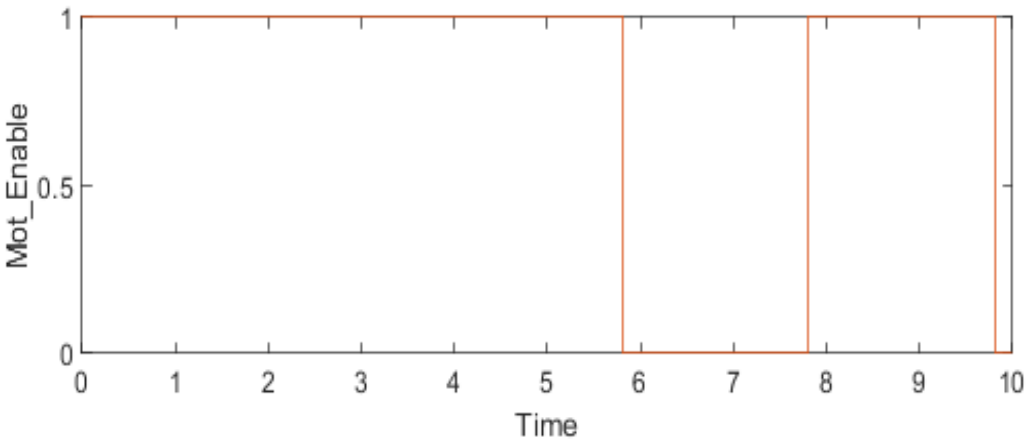
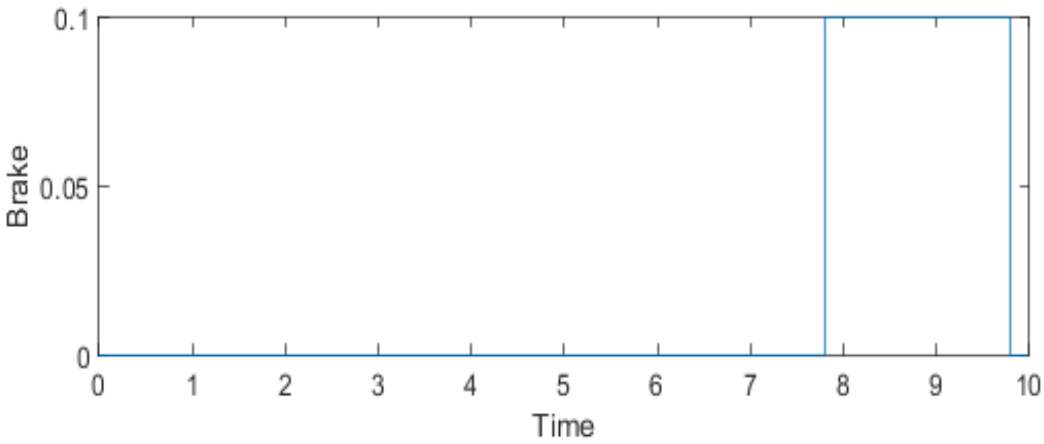
Model: Mode_Logic_Ex
 Harness: Mode_Logic_Ex_Harness1
 Harness Owner: Mode_Logic_Ex
 Release: Current
 Simulation Mode: normal
 Override SIL or PIL: 1
 Mode:
 Configuration Set: ModelReferencing
 Start Time: 0
 Stop Time: 10
 Checksum: 3775655585 1064904917 2300883564 1937877756

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Brake	double		0.001	zoh	union	Link
Mot_Enable	double		0.001	zoh	union	Link
Gen_Enable	double		0.001	zoh	union	Link
ICE_Enable	double		0.001	zoh	union	Link
Brake	double		0.001	zoh	union	Link
Charge	double		0.001	zoh	union	Link
EngSpeed	double		0.001	zoh	union	Link

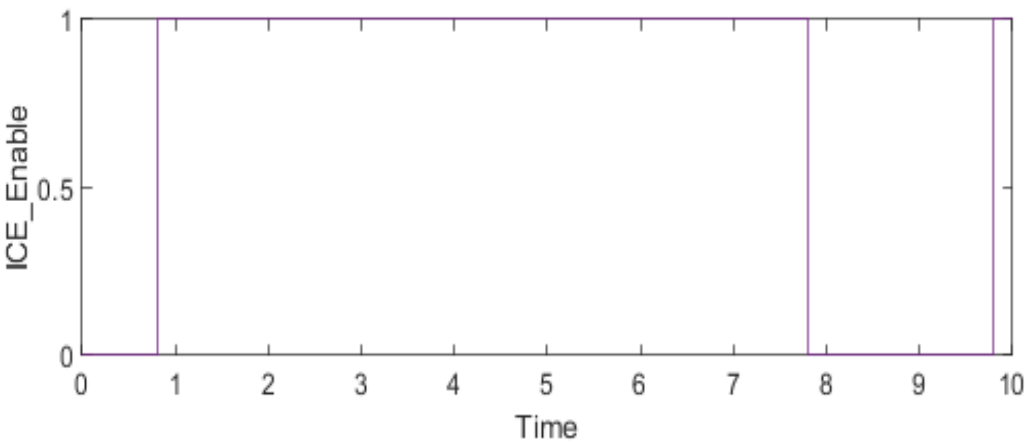
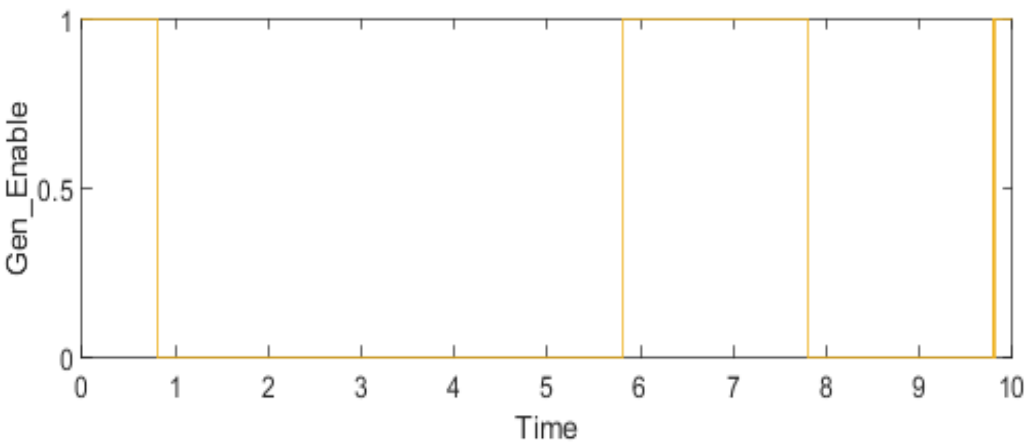
Speed	double	km/hr	0.001	zoh	union	Link
Mot_Enable	double		0.001	zoh	union	Link
Gen_Enable	double		0.001	zoh	union	Link
ICE_Enable	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Brake	double		0.001	zoh	union
Mot_Enable	double		0.001	zoh	union



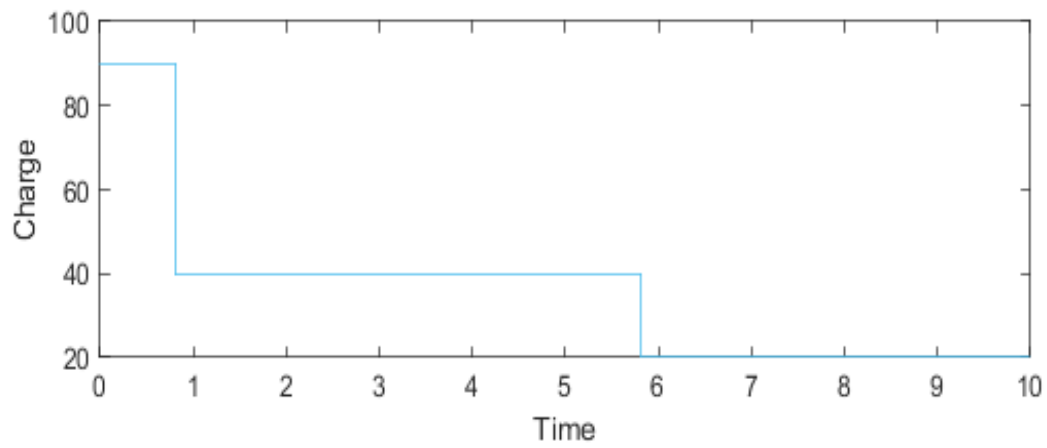
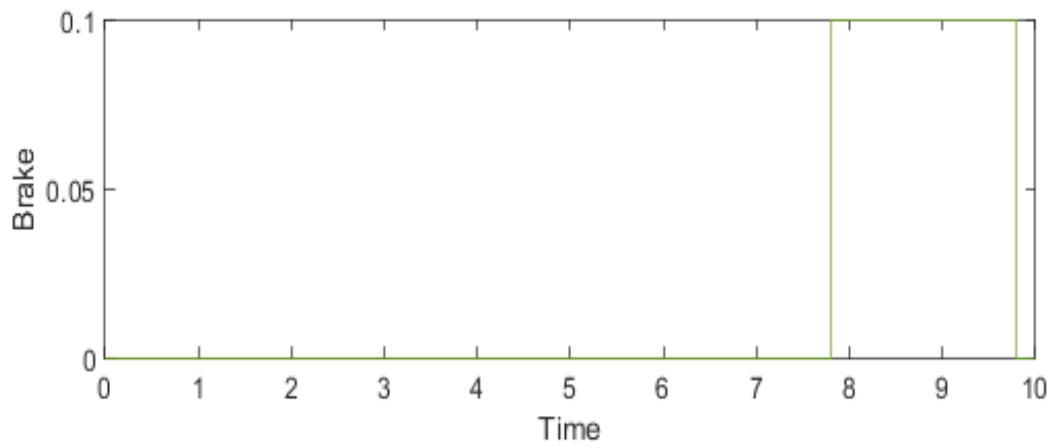
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Name	Data Type	Units	Sample Time	Interp	Sync
Gen_Enable	double		0.001	zoh	union
ICE_Enable	double		0.001	zoh	union



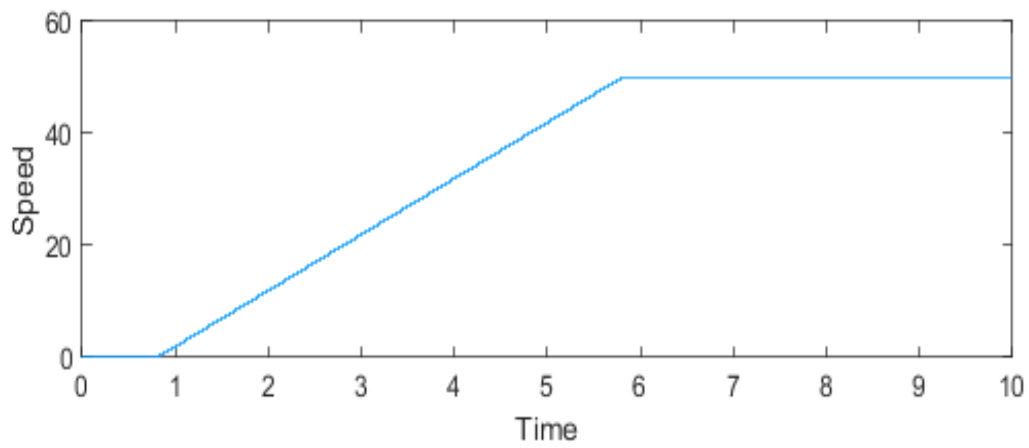
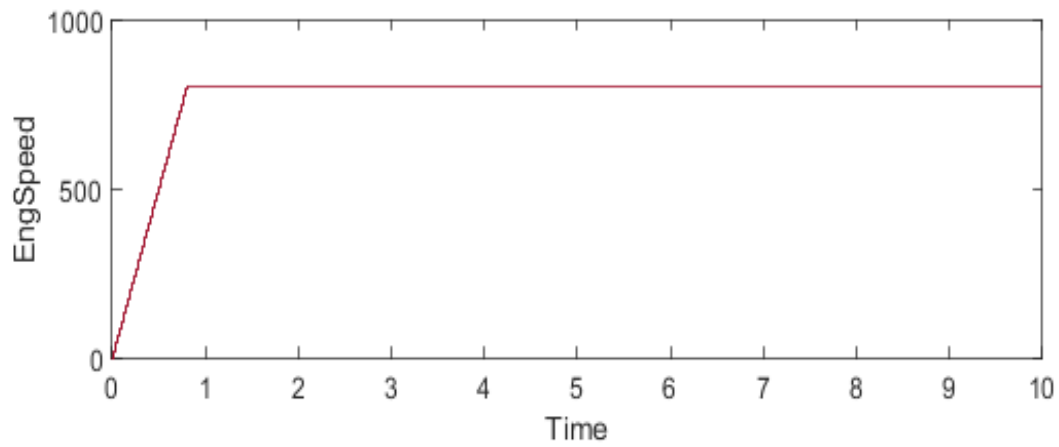
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Name	Data Type	Units	Sample Time	Interp	Sync
Brake	double		0.001	zoh	union
Charge	double		0.001	zoh	union



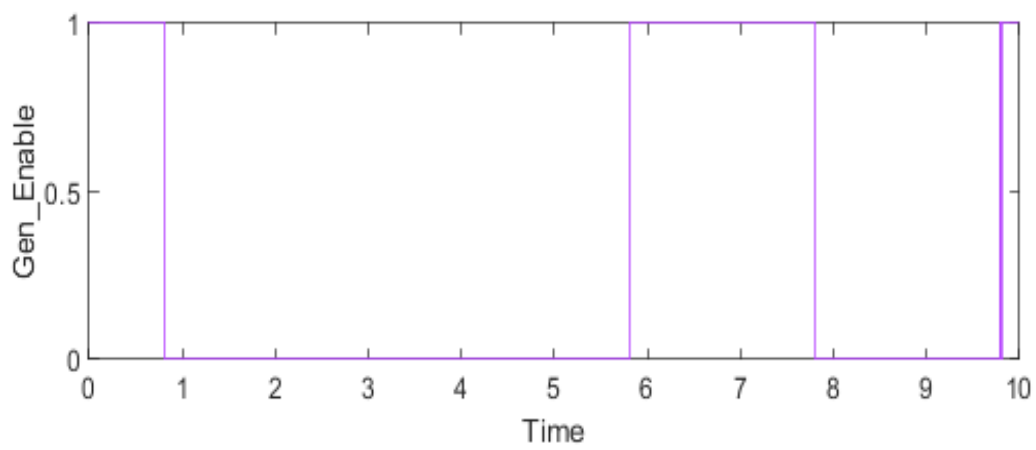
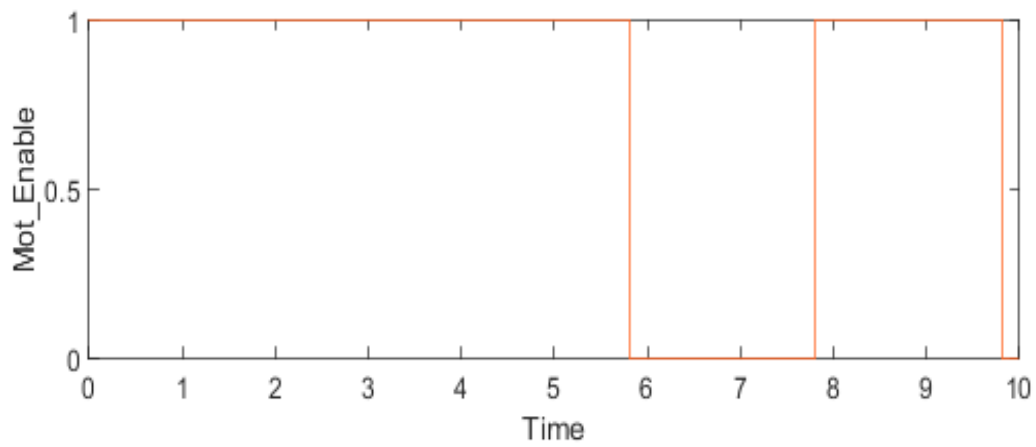
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Name	Data Type	Units	Sample Time	Interp	Sync
EngSpeed	double		0.001	zoh	union
Speed	double	km/hr	0.001	zoh	union



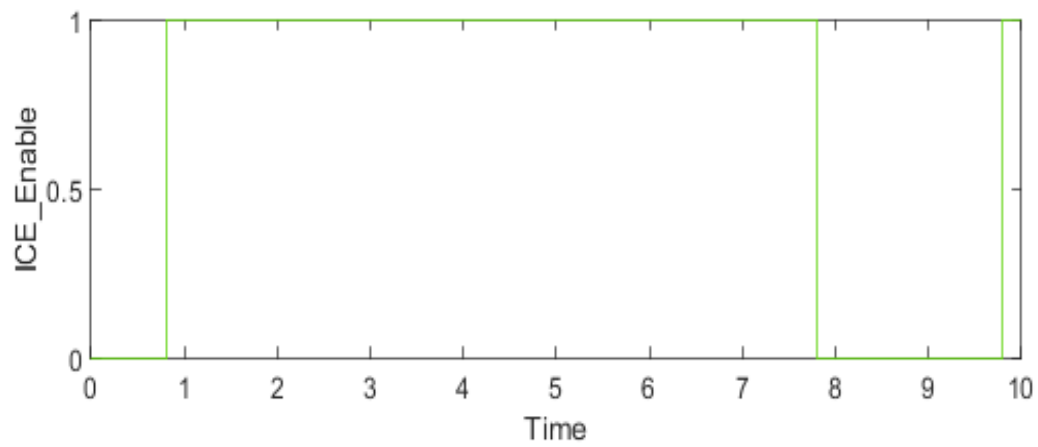
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Name	Data Type	Units	Sample Time	Interp	Sync
Mot_Enable	double		0.001	zoh	union
Gen_Enable	double		0.001	zoh	union



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



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Simulation Logs:

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

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Simulation 2

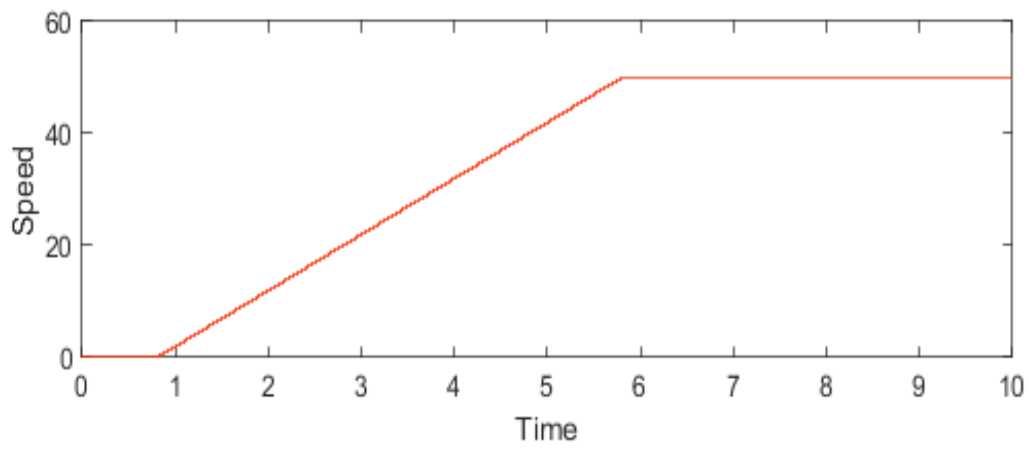
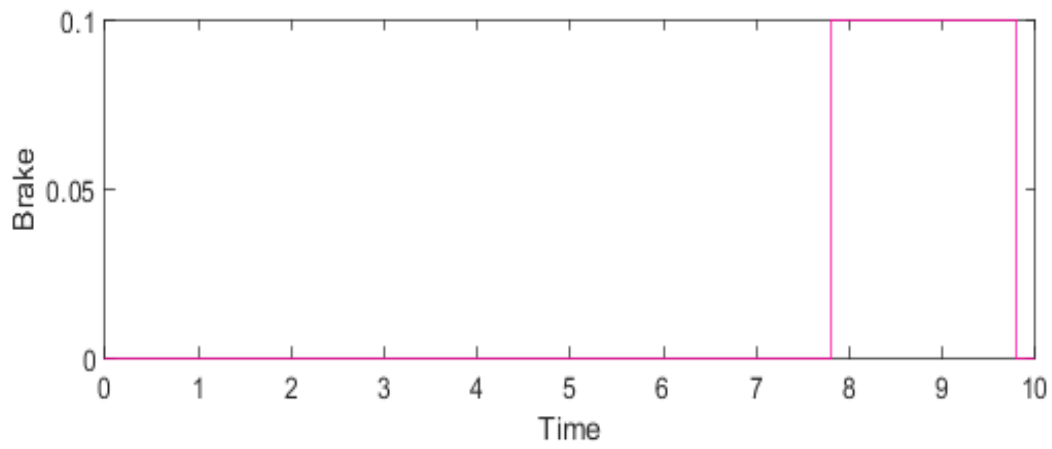
System Under Test Information

Model: Mode_Logic_Ex
Harness: Mode_Logic_Ex_Harness1
Harness Owner: Mode_Logic_Ex
Release: Current
Simulation Mode: normal
Override SIL or PIL 0
Mode:
Configuration Set: ModelReferencing
Start Time: 0
Stop Time: 10
Checksum: 2379225425 2772172655 2397192735 336144970

Simulation Output

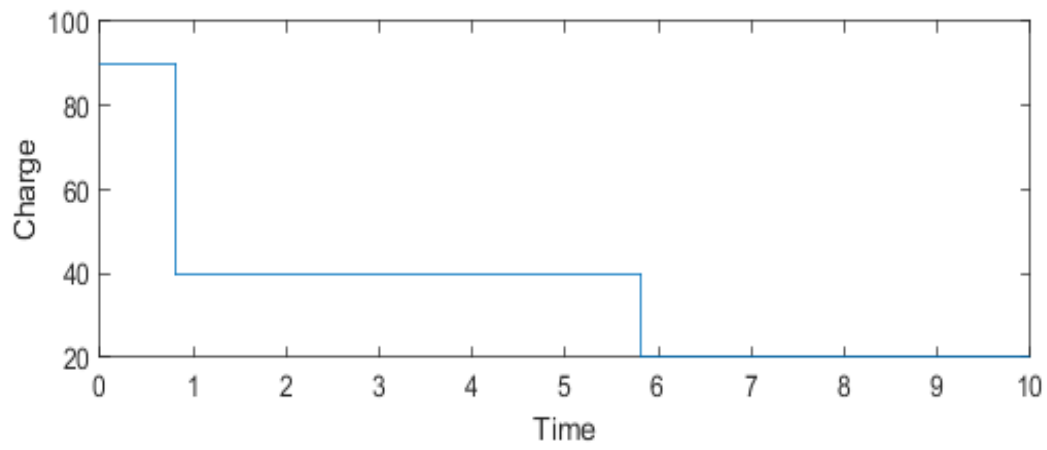
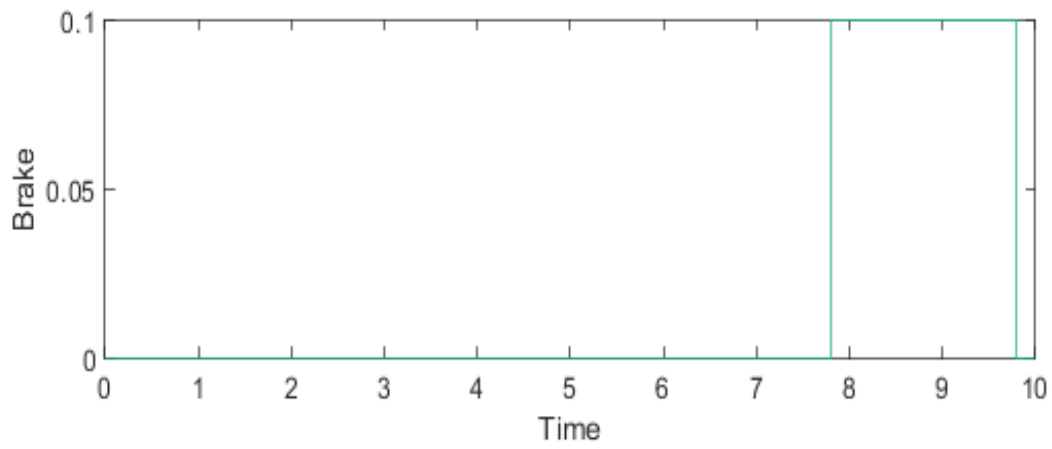
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Brake	double		0.001	zoh	union	Link
Speed	double		0.001	zoh	union	Link
Brake	double		0.001	zoh	union	Link
Charge	double		0.001	zoh	union	Link
EngSpeed	double		0.001	zoh	union	Link
Mot_Enable	double		0.001	zoh	union	Link
Gen_Enable	double		0.001	zoh	union	Link
ICE_Enable	double		0.001	zoh	union	Link
Mot_Enable	double		0.001	zoh	union	Link
Gen_Enable	double		0.001	zoh	union	Link
ICE_Enable	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Brake	double		0.001	zoh	union
Speed	double		0.001	zoh	union



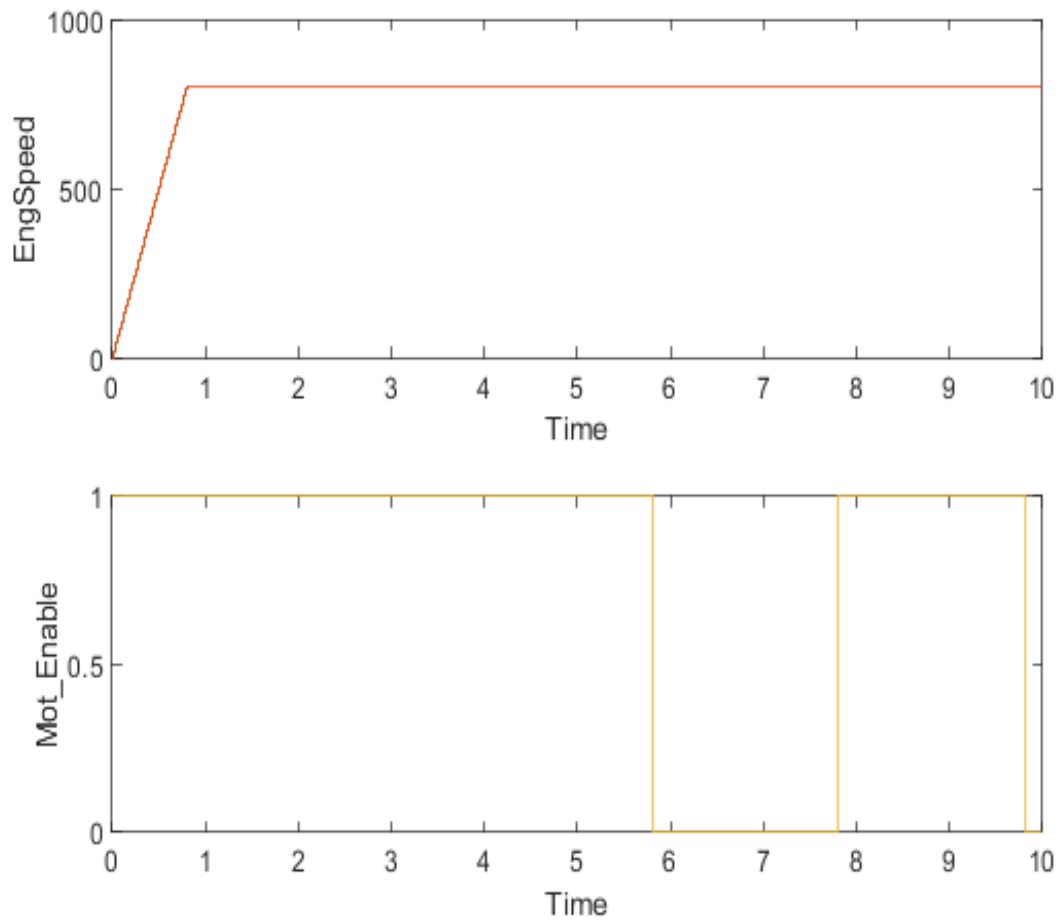
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Name	Data Type	Units	Sample Time	Interp	Sync
Brake	double		0.001	zoh	union
Charge	double		0.001	zoh	union



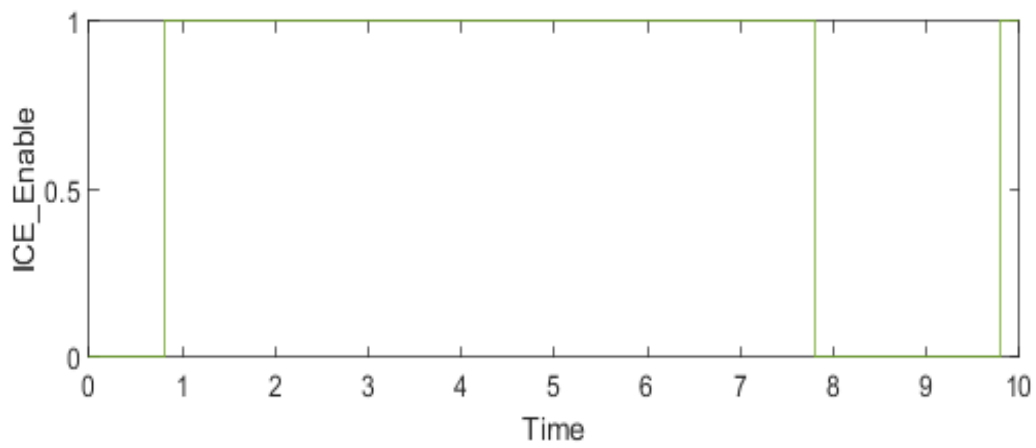
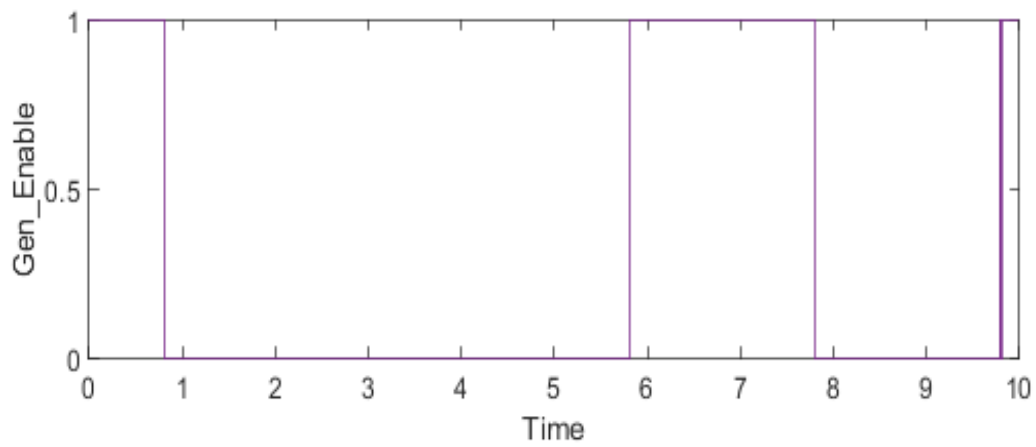
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Name	Data Type	Units	Sample Time	Interp	Sync
EngSpeed	double		0.001	zoh	union
Mot_Enable	double		0.001	zoh	union



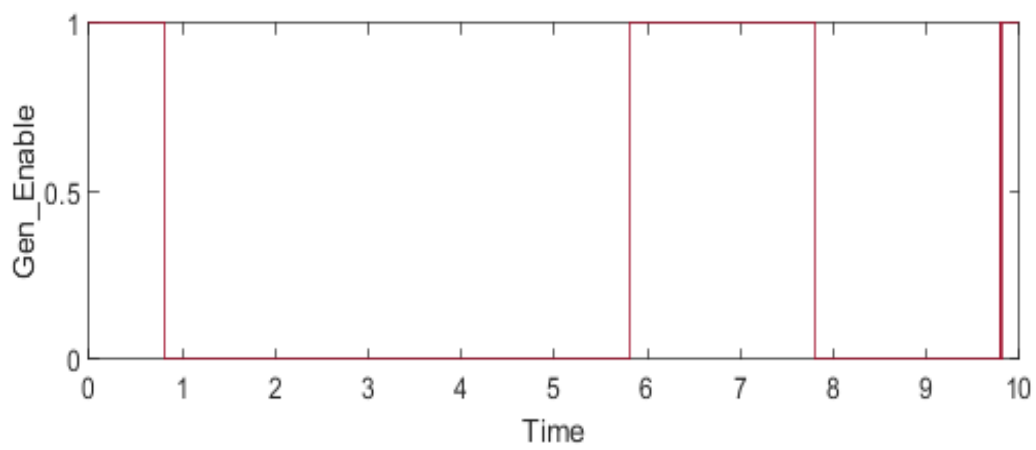
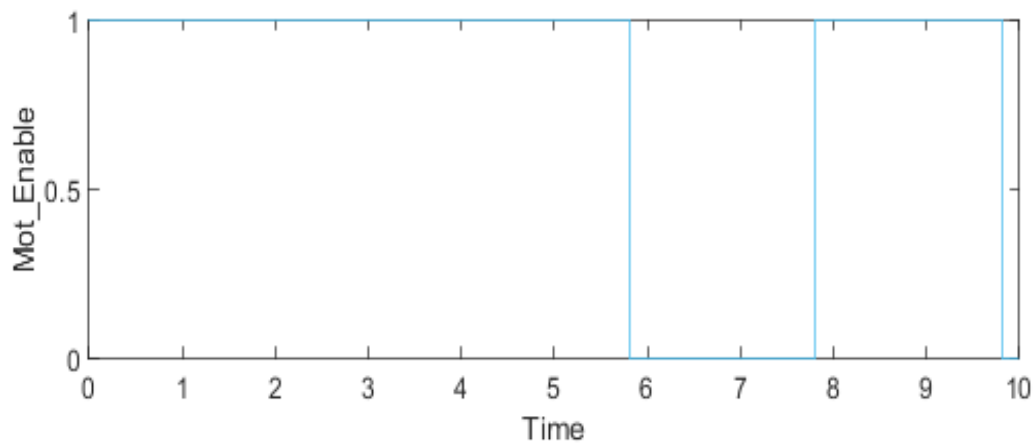
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Name	Data Type	Units	Sample Time	Interp	Sync
Gen_Enable	double		0.001	zoh	union
ICE_Enable	double		0.001	zoh	union



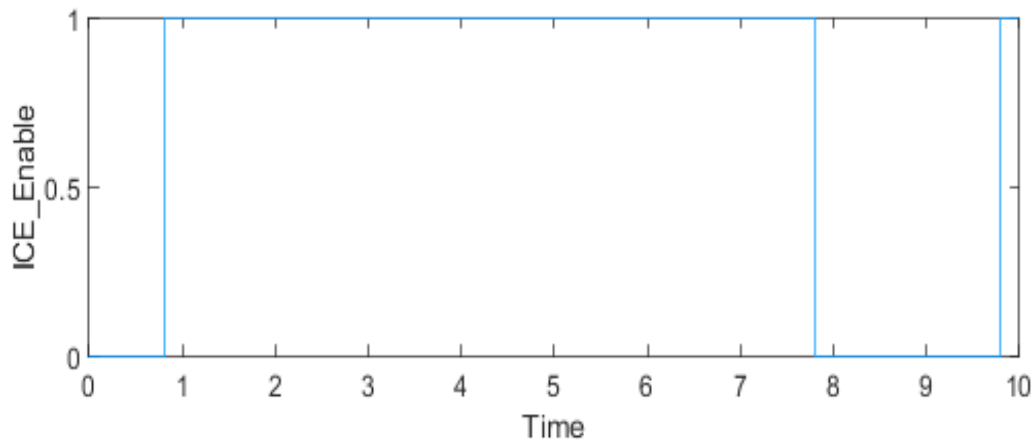
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Name	Data Type	Units	Sample Time	Interp	Sync
Mot_Enable	double		0.001	zoh	union
Gen_Enable	double		0.001	zoh	union



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



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Simulation Logs:

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

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Mode_Logic_ExcelImport

Test Result Information

Result Type: Test Case Result
Parent: [B2B Tests](#)
Start Time: 15-Oct-2020 10:41:11
End Time: 15-Oct-2020 10:41:30
Outcome: **Passed**

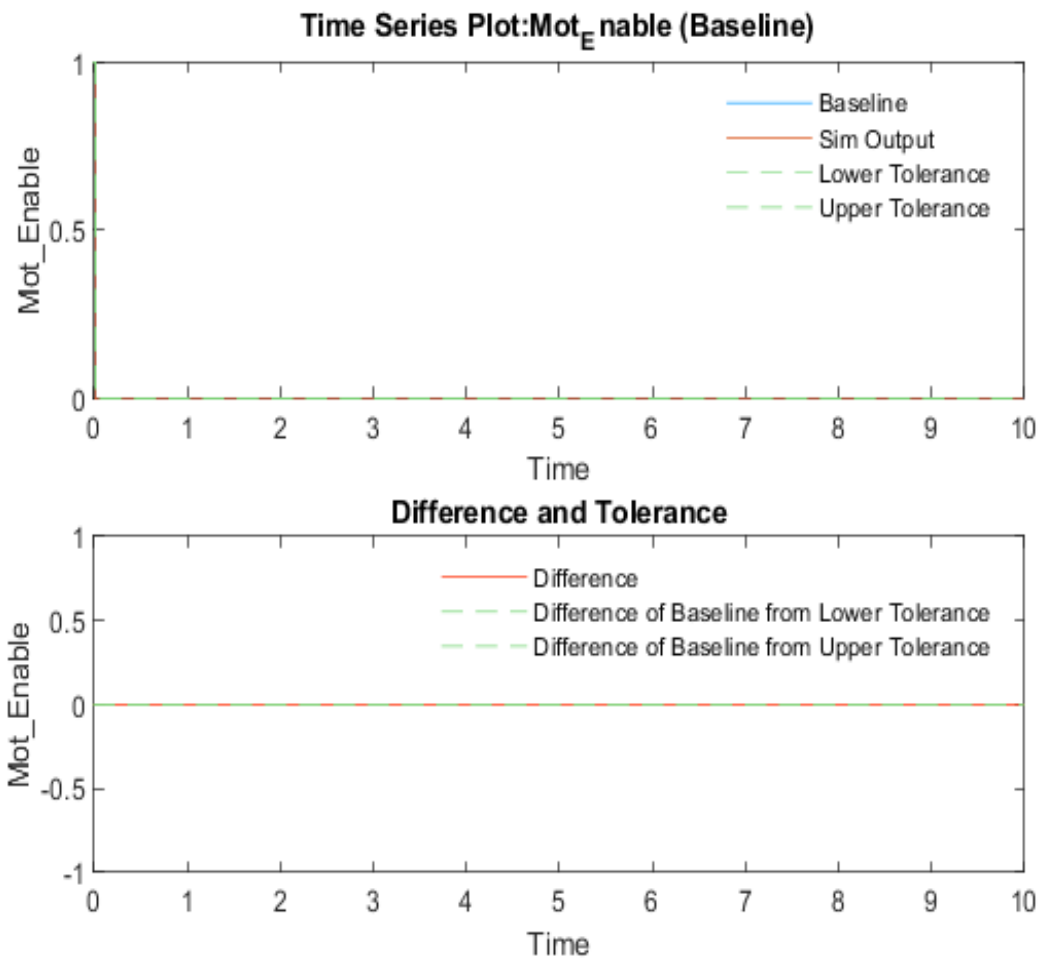
Test Case Information

Name: Mode_Logic_ExcelImport
Type: Equivalence Test

Equivalence Comparison

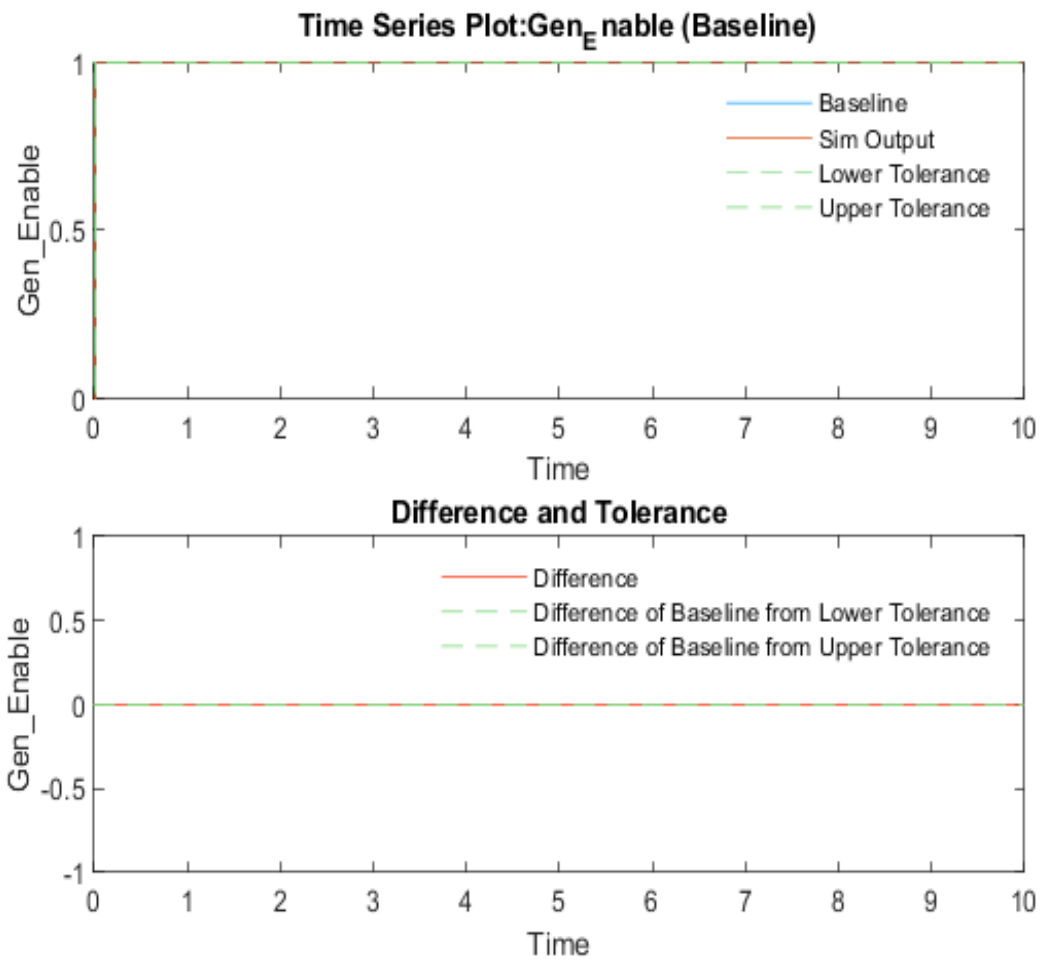
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
Mot_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
Gen_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
ICE_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
Brake	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
Charge	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
EngSpeed	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
Speed	0	0	0	0	0	double	km/hr	0.001	double		0.001	zoh	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
Mot_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union



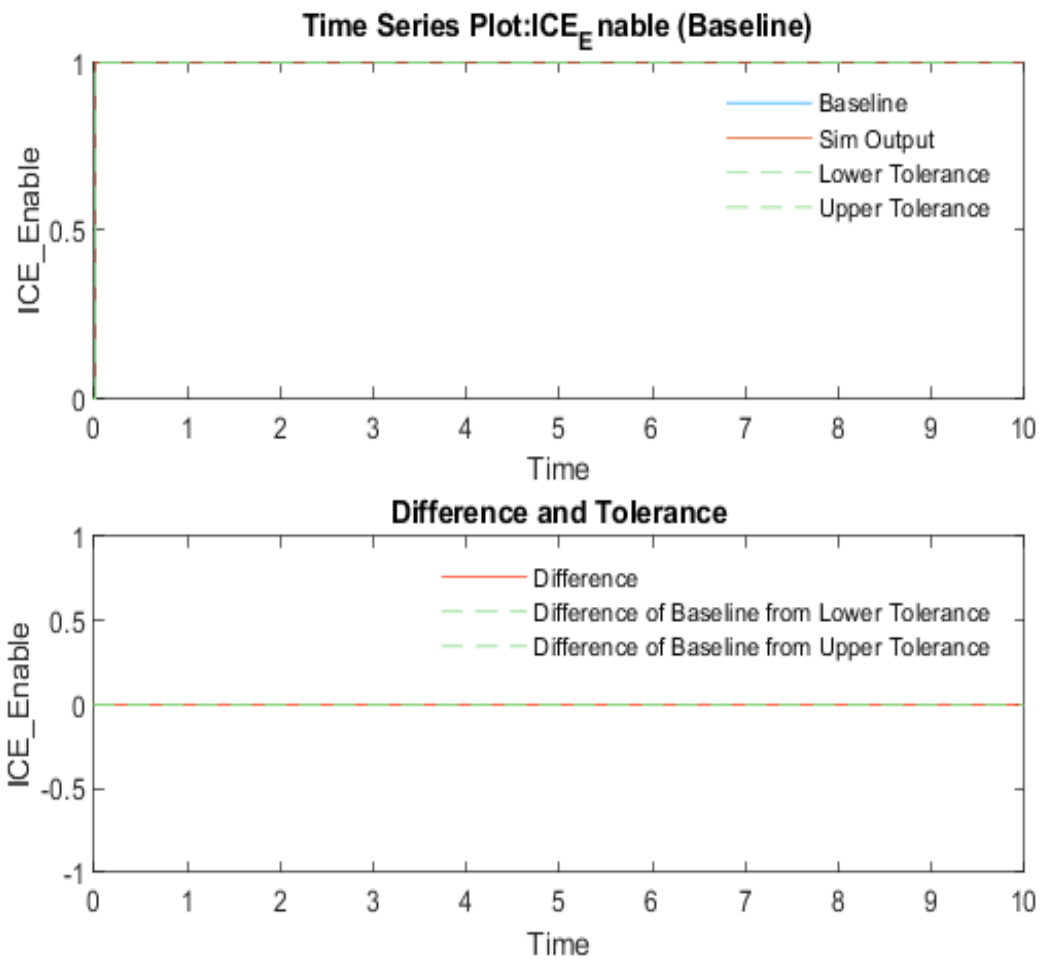
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ Gen_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union



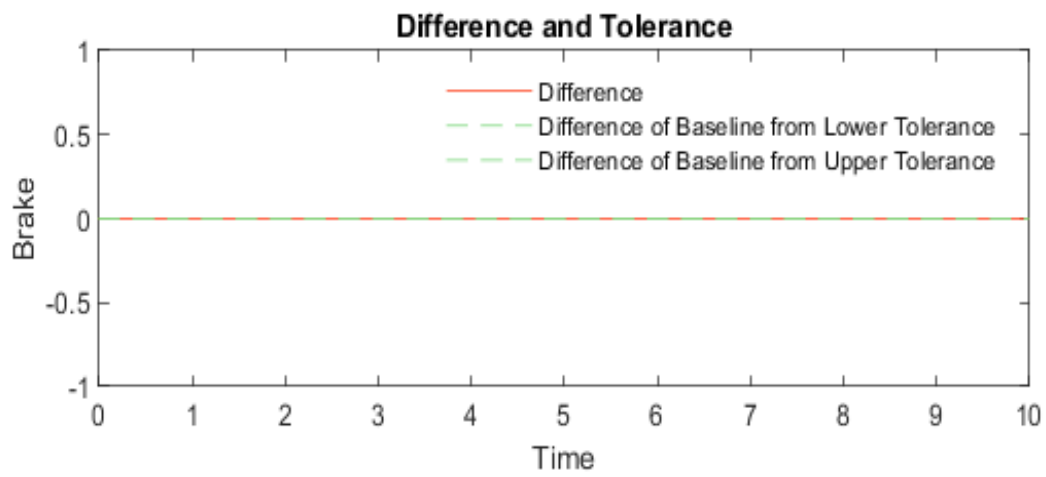
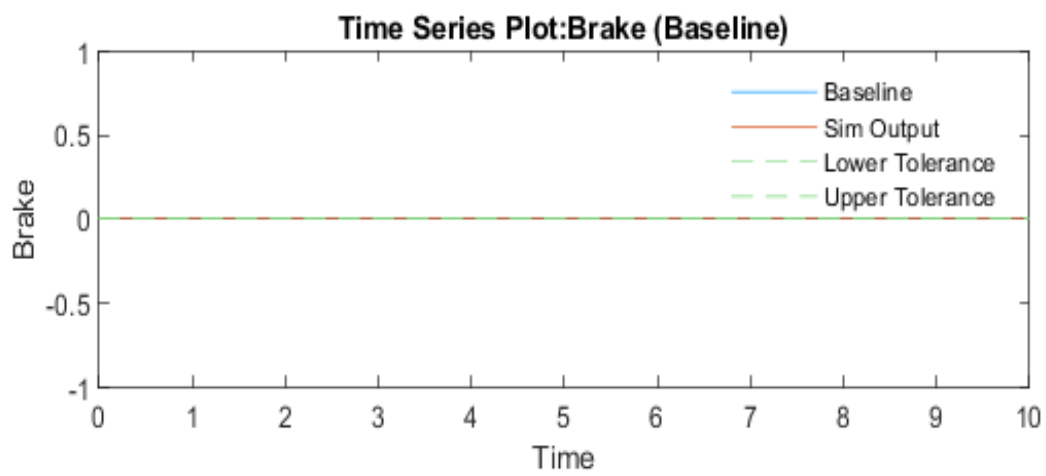
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ ICE_Enable	0	0	0	0	0	double		0.001	double		0.001	zoh	union



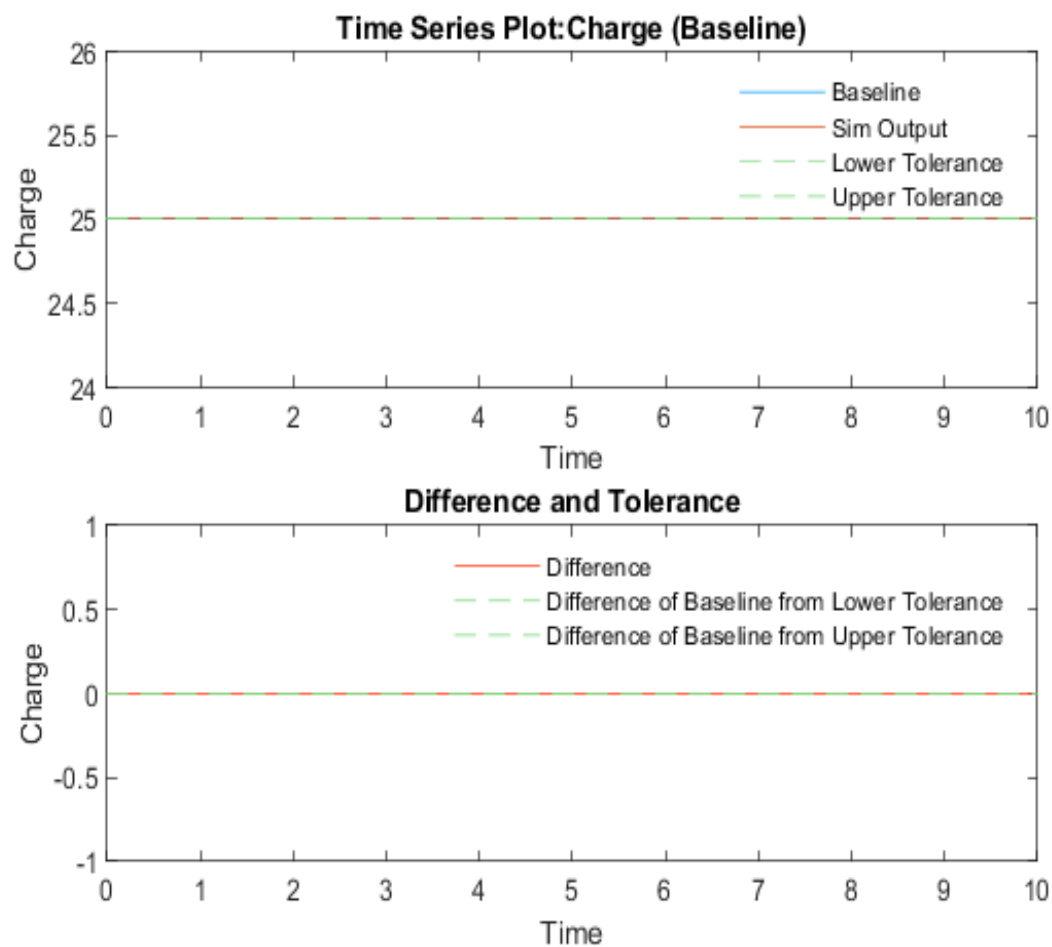
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ Brake	0	0	0	0	0	double		0.001	double		0.001	zoh	union



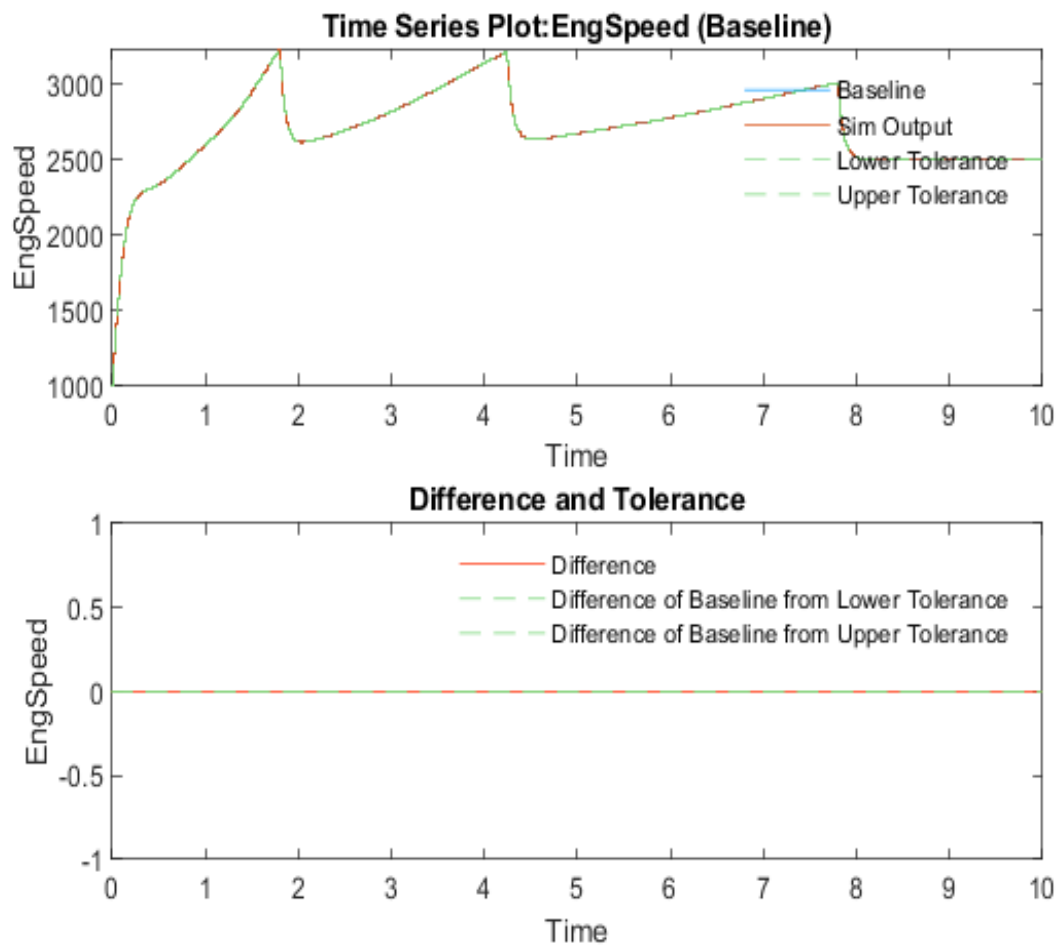
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✔ Charge	0	0	0	0	0	double		0.001	double		0.001	zoh	union



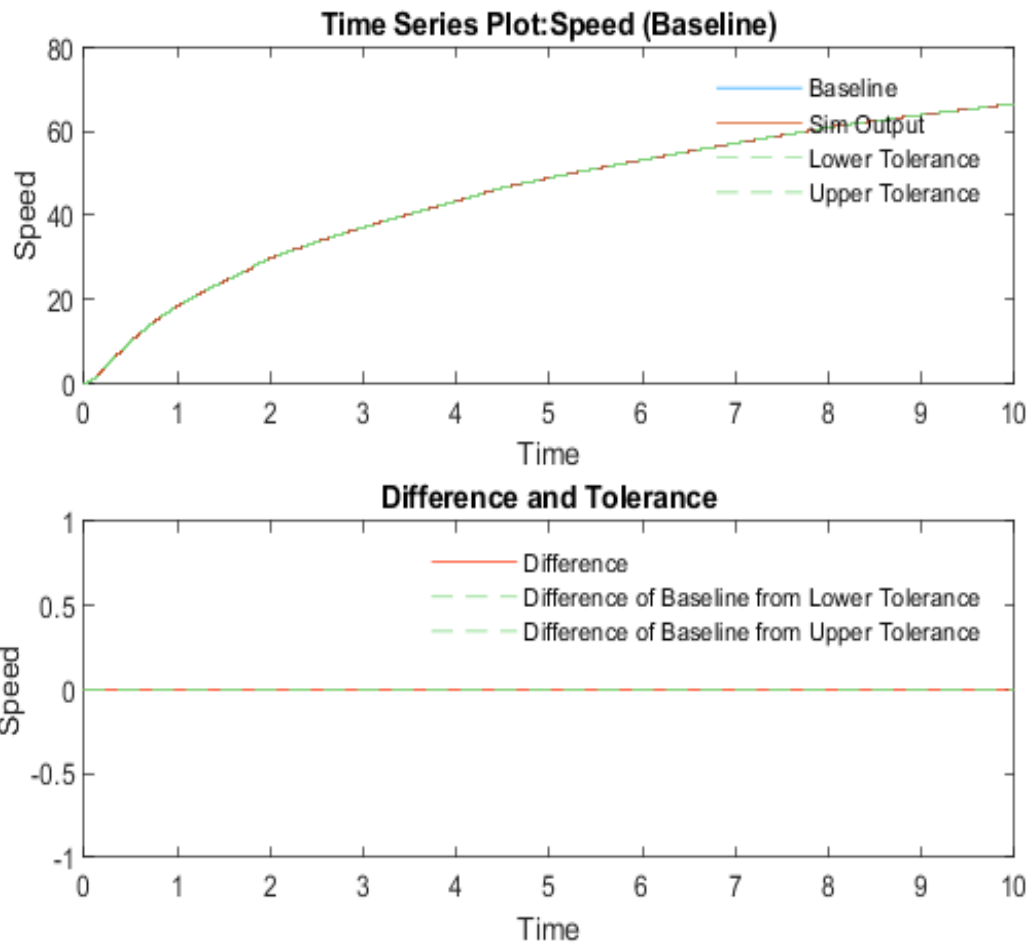
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Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ EngSpeed	0	0	0	0	0	double		0.001	double		0.001	zoh	union



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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
✓ Speed	0	0	0	0	0	double	km/hr	0.001	double		0.001	zoh	union



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Simulation 1

System Under Test Information

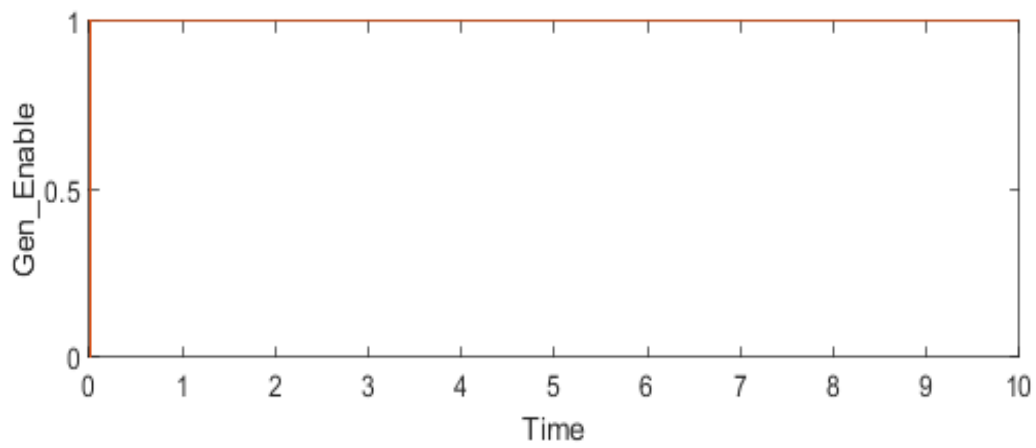
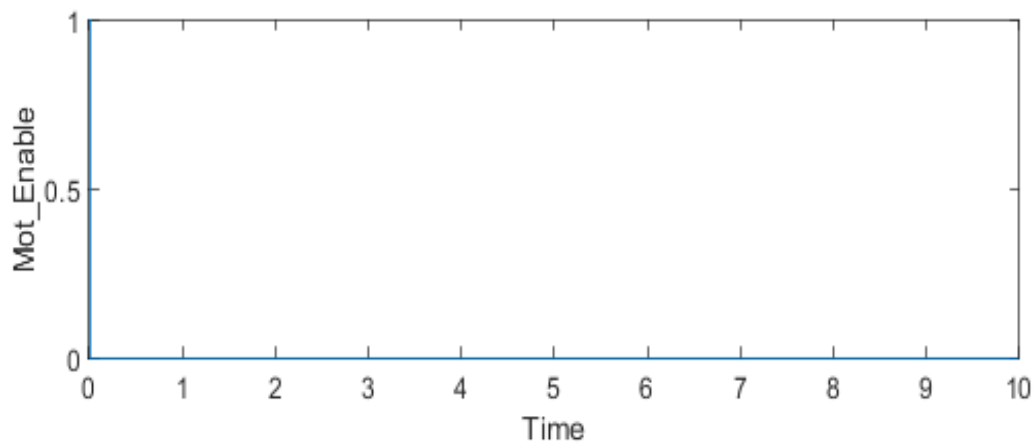
Model:	Mode_Logic_Ex
Harness:	Mode_Logic_Ex_Harness2
Harness Owner:	Mode_Logic_Ex
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode: 1
 Configuration Set: ModelReferencing
 External Input Name: ModelLogic_TestScenario.xlsx
 External Input File: C:\Work\Jenkins\MBD_Jenkins\testmngt\testcases\ModelLogic_TestScenario.xlsx
 Start Time: 0
 Stop Time: 10
 Checksum: 2594654103 4143187215 2781615718 2486298153

Simulation Output

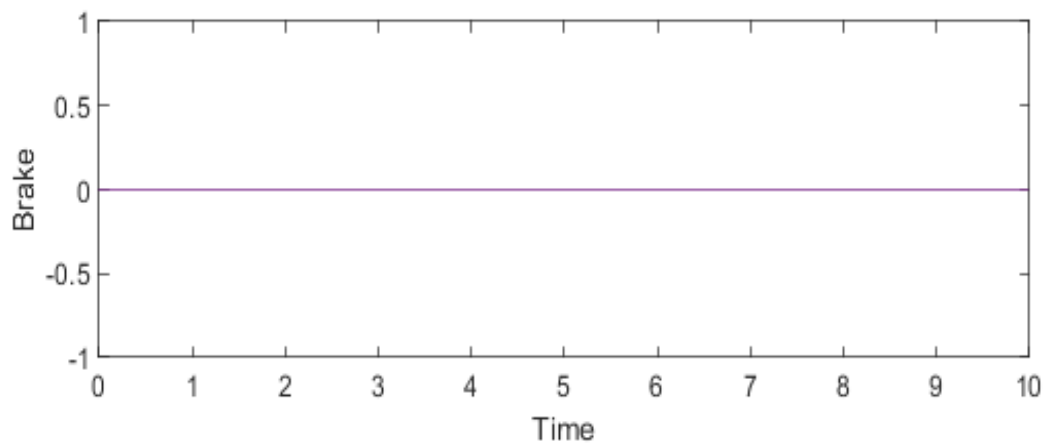
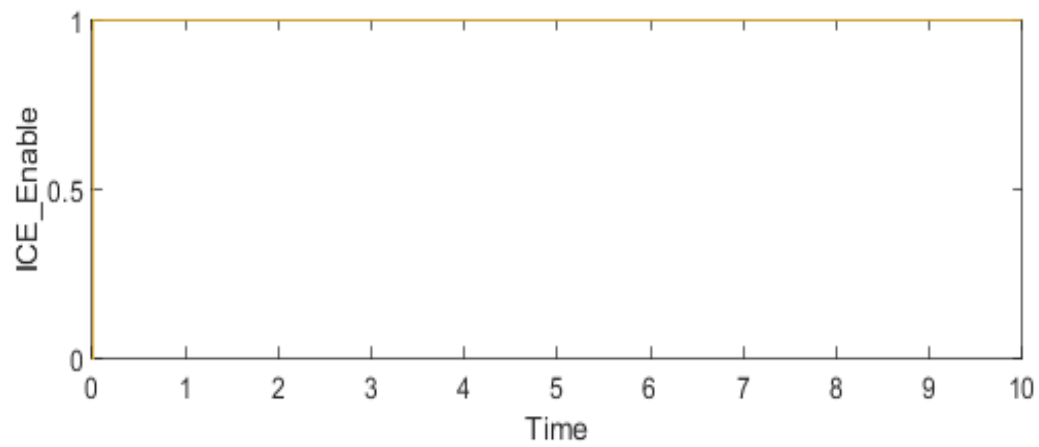
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Mot_Enable	double		0.001	zoh	union	Link
Gen_Enable	double		0.001	zoh	union	Link
ICE_Enable	double		0.001	zoh	union	Link
Brake	double		0.001	zoh	union	Link
Charge	double		0.001	zoh	union	Link
EngSpeed	double		0.001	zoh	union	Link
Speed	double	km/hr	0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Mot_Enable	double		0.001	zoh	union
Gen_Enable	double		0.001	zoh	union



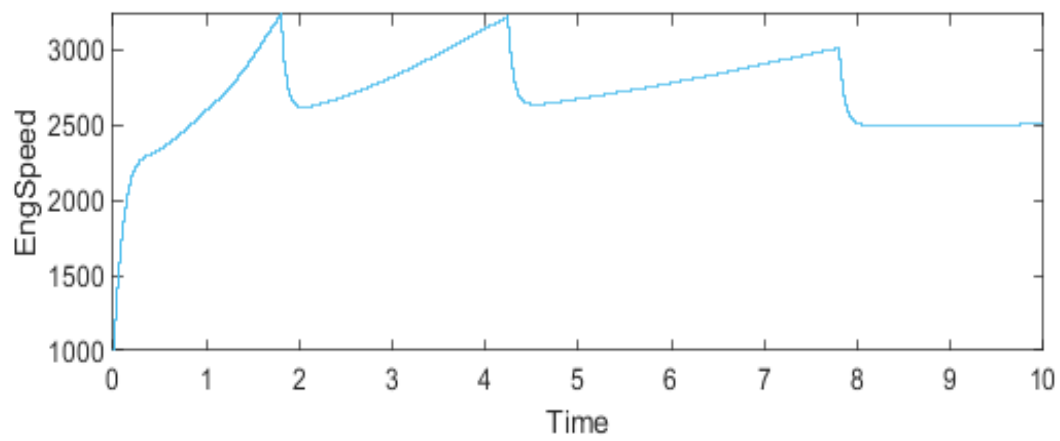
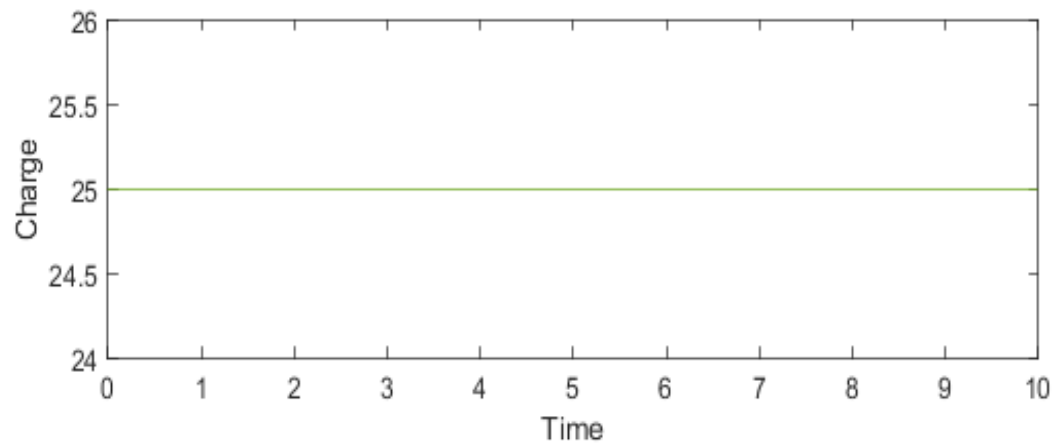
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Name	Data Type	Units	Sample Time	Interp	Sync
ICE_Enable	double		0.001	zoh	union
Brake	double		0.001	zoh	union



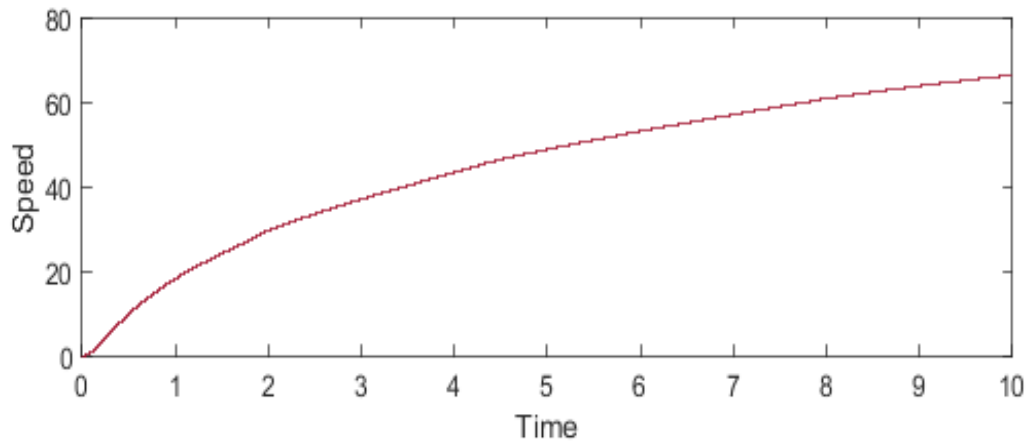
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Name	Data Type	Units	Sample Time	Interp	Sync
Charge	double		0.001	zoh	union
EngSpeed	double		0.001	zoh	union



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Name	Data Type	Units	Sample Time	Interp	Sync
Speed	double	km/hr	0.001	zoh	union



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Simulation 2

System Under Test Information

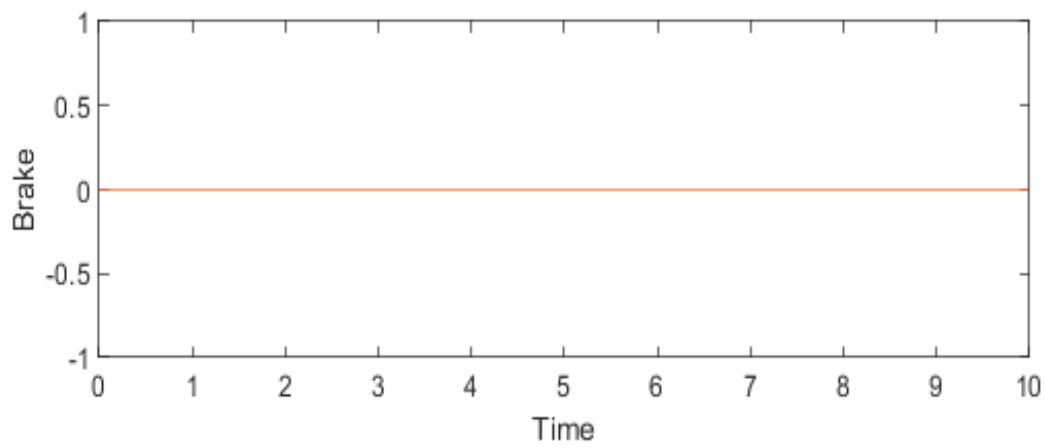
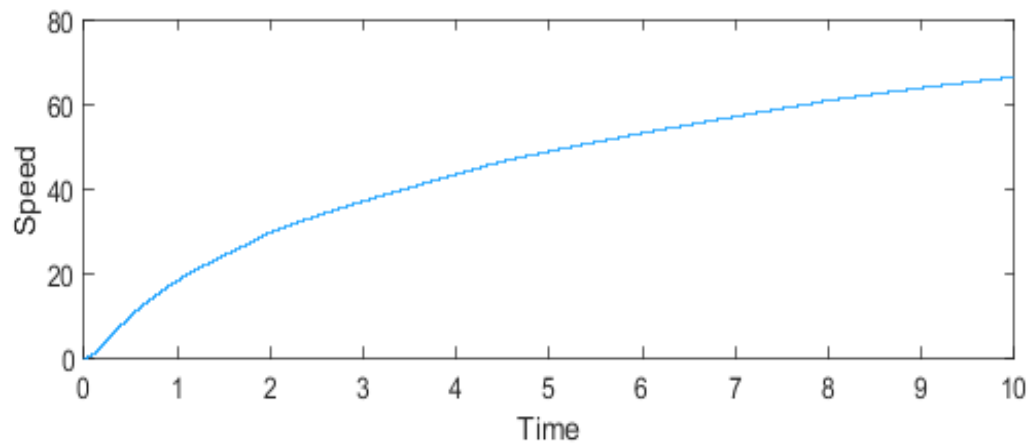
Model:	Mode_Logic_Ex
Harness:	Mode_Logic_Ex_Harness2
Harness Owner:	Mode_Logic_Ex
Release:	Current
Simulation Mode:	normal

Override SIL or PIL 0
Mode:
Configuration Set: ModelReferencing
External Input Name: ModelLogic_TestScenario.xlsx
External Input File: C:\Work\Jenkins\MBD_Jenkins\testmngt\testcases\
ModelLogic_TestScenario.xlsx
Start Time: 0
Stop Time: 10
Checksum: 4064854406 4112364502 1695081796 783798768

Simulation Output

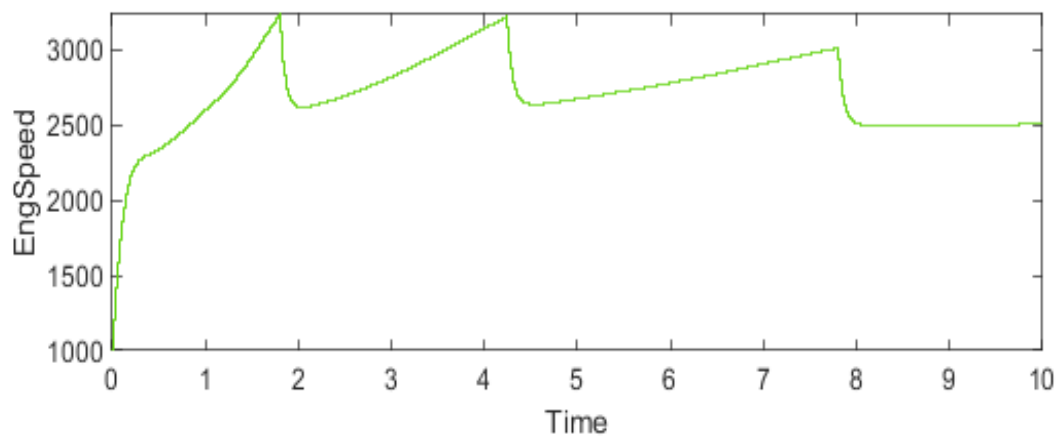
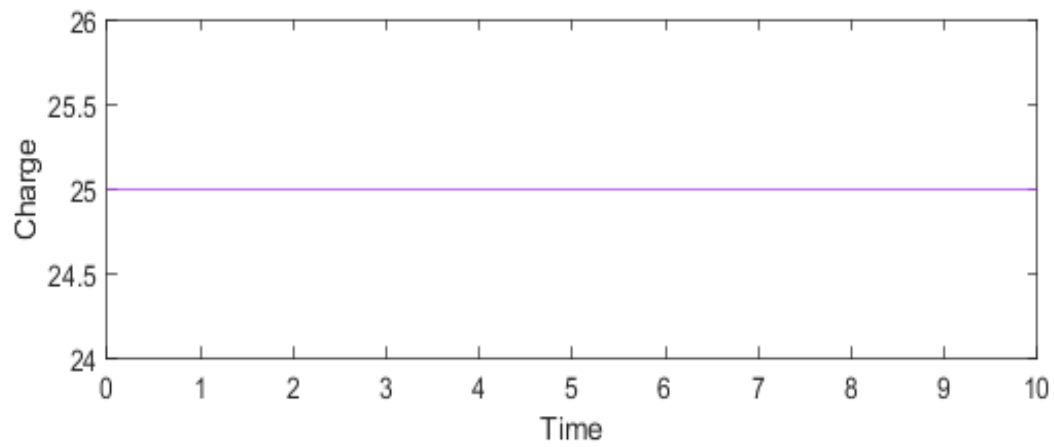
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Speed	double		0.001	zoh	union	Link
Brake	double		0.001	zoh	union	Link
Charge	double		0.001	zoh	union	Link
EngSpeed	double		0.001	zoh	union	Link
Mot_Enable	double		0.001	zoh	union	Link
Gen_Enable	double		0.001	zoh	union	Link
ICE_Enable	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Speed	double		0.001	zoh	union
Brake	double		0.001	zoh	union



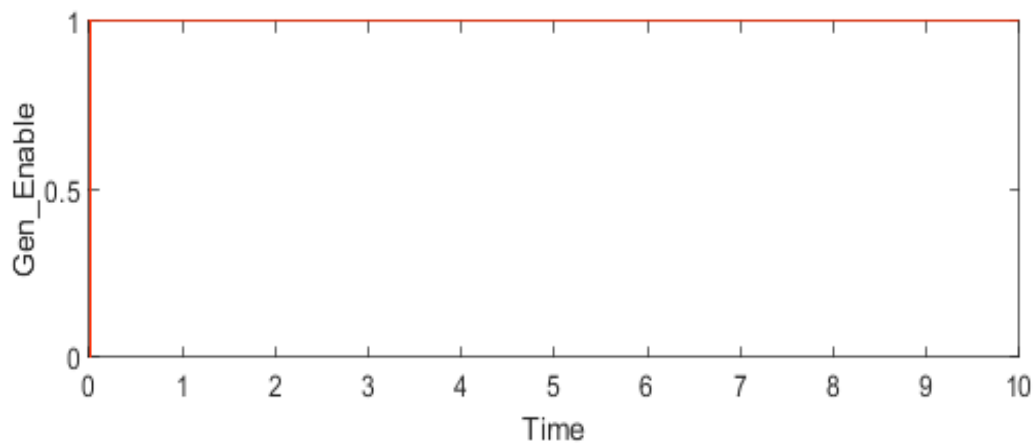
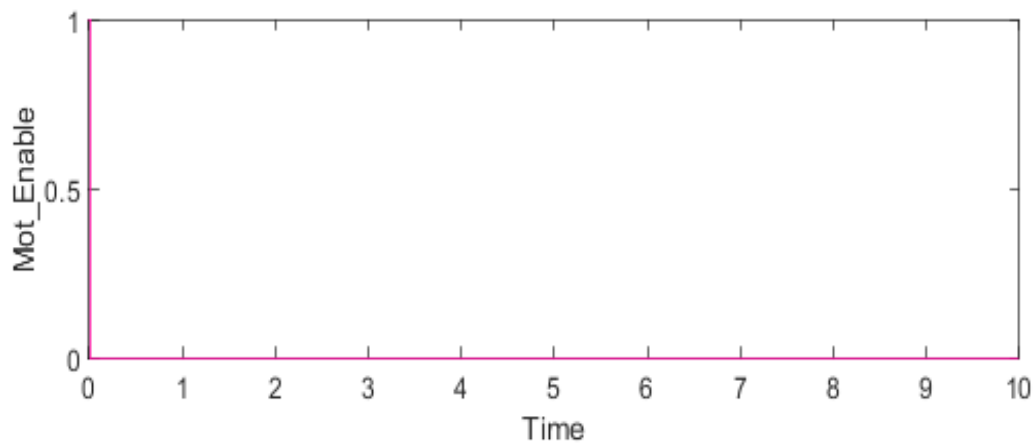
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Name	Data Type	Units	Sample Time	Interp	Sync
Charge	double		0.001	zoh	union
EngSpeed	double		0.001	zoh	union



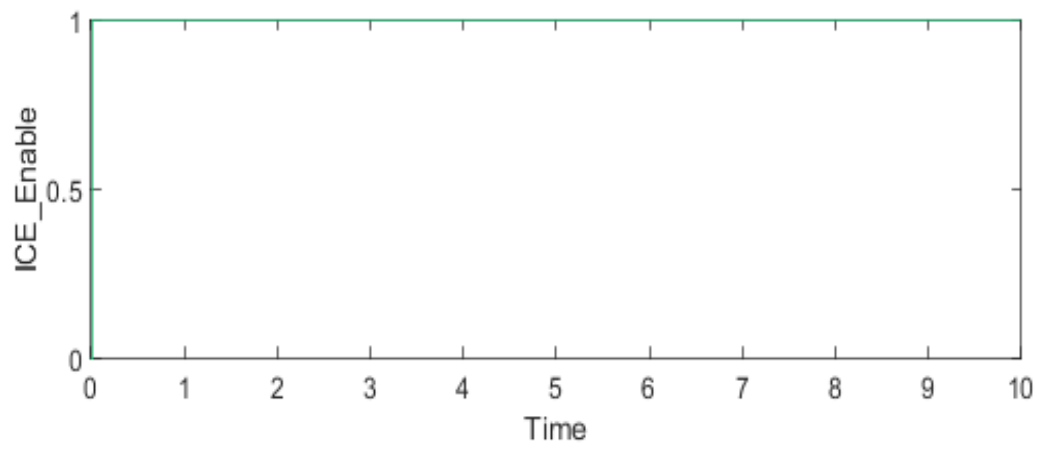
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Name	Data Type	Units	Sample Time	Interp	Sync
Mot_Enable	double		0.001	zoh	union
Gen_Enable	double		0.001	zoh	union



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



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