Report Generated by Test Manager

Title: **Test**
Author:
Date: **07-Jun-2024 08:09:38**

Test Environment

Platform: PCWIN64
MATLAB: (R2024a)

Summary

Name	Outcome	Duration (Seconds)
Results: 2024-Jun-07 08:08:51	2 ✓	45.547
OperatingModeAndErrorLogic_TestFile	✓	0.83
RequirementsVerification	✓	0.831
TestCorrectOutputForEachState	✓	0.83
BaselineAndEquivalence_TestFile	✓	16.564
Functional Scenario Equivalence	✓	16.565
IntroductionScenario	✓	16.564

Results: 2024-Jun-07 08:08:51

Result Type:	Result Set
Parent:	None
Start Time:	07-Jun-2024 08:08:52
End Time:	07-Jun-2024 08:09:38
Outcome:	Total: 2, Passed: 2

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OperatingModeAndErrorLogic_TestFile

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2024-Jun-07 08:08:51
Start Time:	07-Jun-2024 08:08:52
End Time:	07-Jun-2024 08:08:53
Outcome:	Total: 1, Passed: 1

Test Suite Information

Name:	OperatingModeAndErrorLogic_TestFile

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RequirementsVerification

Test Result Information

Result Type:	Test Suite Result
Parent:	OperatingModeAndErrorLogic_TestFile
Start Time:	07-Jun-2024 08:08:52
End Time:	07-Jun-2024 08:08:53
Outcome:	Total: 1, Passed: 1

Test Suite Information

Name:	RequirementsVerification

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TestCorrectOutputForEachState

Test Result Information

Result Type:	Test Case Result
Parent:	RequirementsVerification
Start Time:	07-Jun-2024 08:08:52
End Time:	07-Jun-2024 08:08:53
Outcome:	Passed

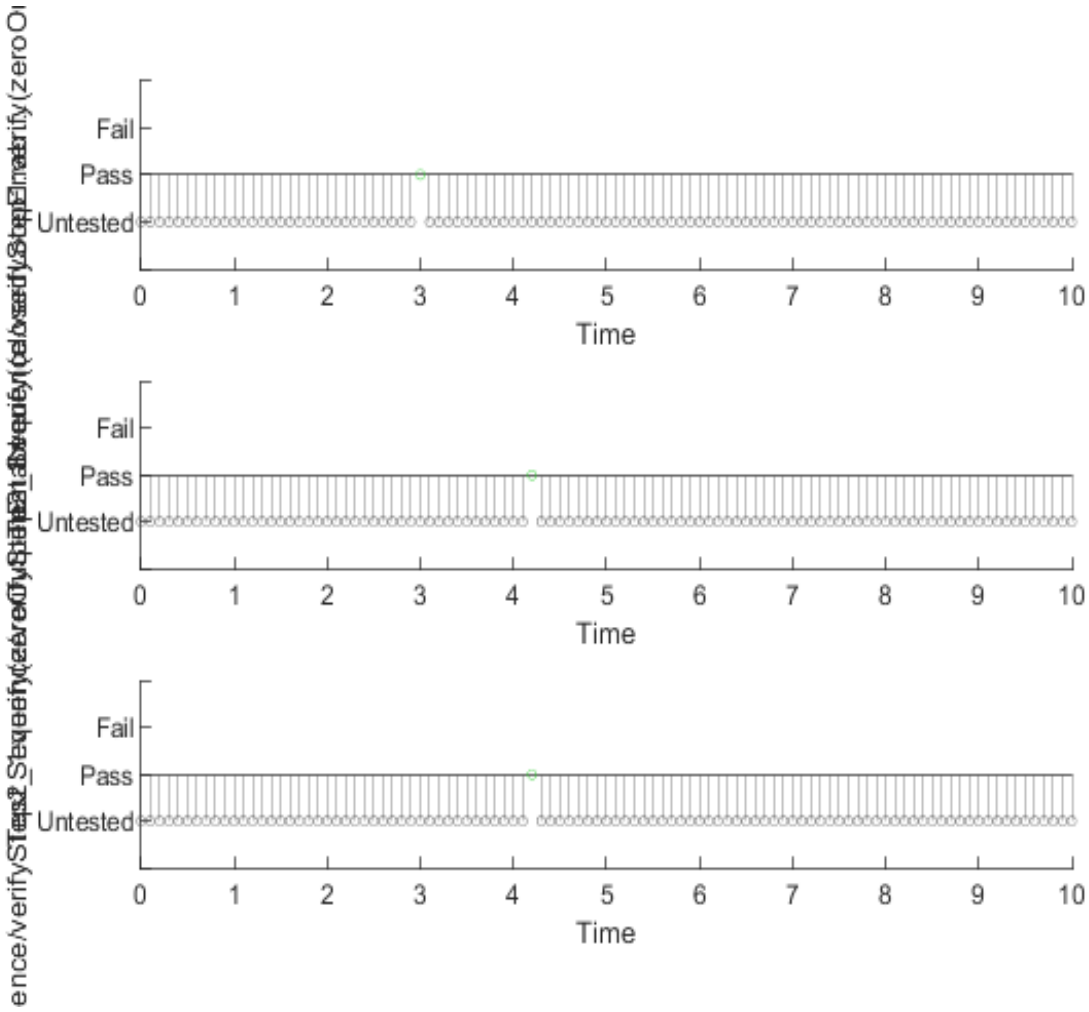
Test Case Information

Name:	TestCorrectOutputForEachState
Type:	Baseline Test

Verify Result

Name	Link to Plot
Test Sequence/verifyStep1:verify(zeroOutputEnable ==true)	Link
Test Sequence/verifyStep2_1:verify((closedLoopEnable && closedLoopLEDEnable) == false)	Link
Test Sequence/verifyStep2_1:verify(zeroOutputEnable==false)	Link
Test Sequence/verifyStep2_2:verify(closedLoopEnable==true &&closedLoopLEDEnable==false)	Link
Test Sequence/verifyStep2_2:verify(zeroOutputEnable==false)	Link
Test Sequence/verifyStep2_3:verify(closedLoopEnable==false &&closedLoopLEDEnable == true)	Link
Test Sequence/verifyStep2_3:verify(zeroOutputEnable==false)	Link
Test Sequence/verifyStep2_4:verify(closedLoopEnable&&closedLoopLEDEnable == true)	Link
Test Sequence/verifyStep2_4:verify(zeroOutputEnable==false)	Link
Test Sequence/verifyStep3:verify(zeroOutputEnable==true)	Link

Name
Test Sequence/verifyStep1:verify(zeroOutputEnable ==true)
Test Sequence/verifyStep2_1:verify((closedLoopEnable && closedLoopLEDEnable) == false)
Test Sequence/verifyStep2_1:verify(zeroOutputEnable==false)



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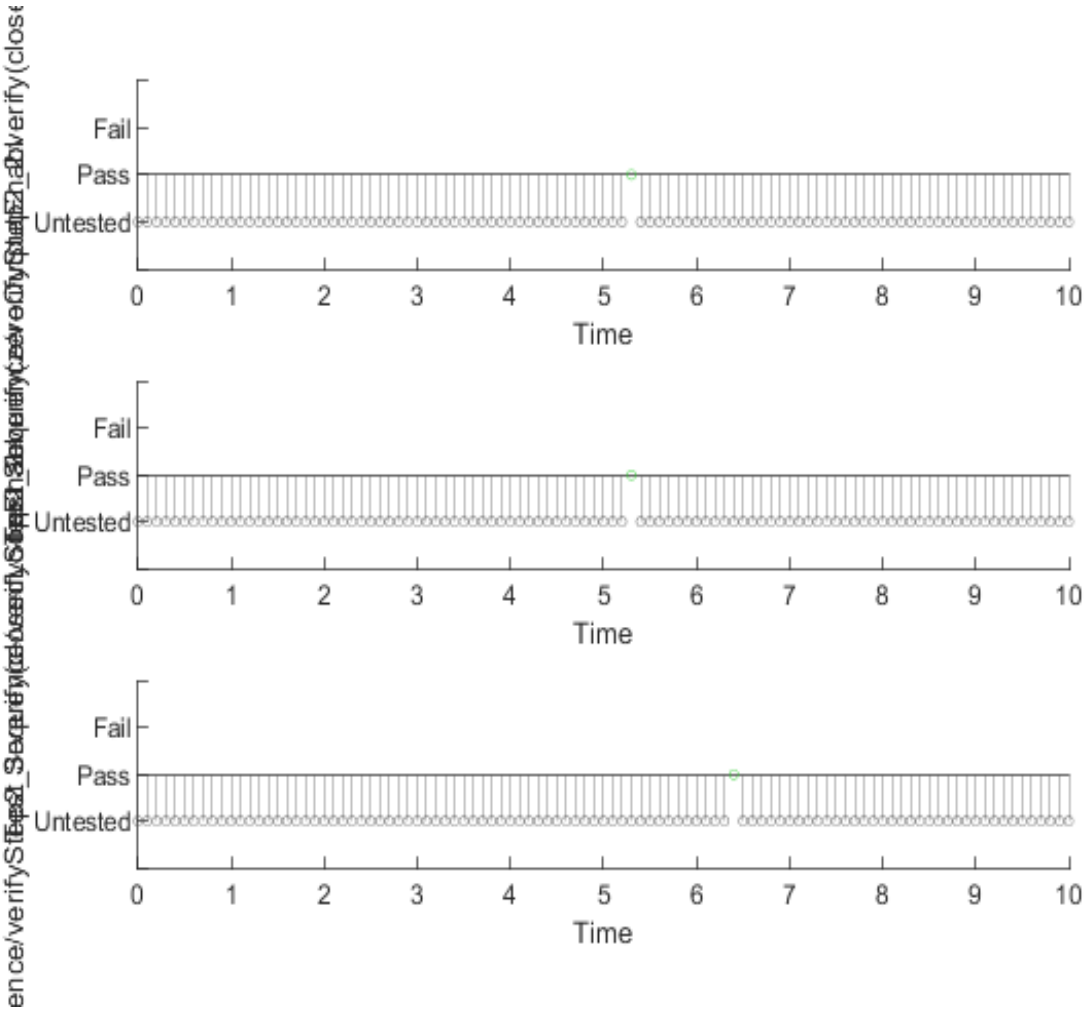
Name
Test Sequence/verifyStep2_2:verify(closedLoopEnable==true &&closedLoopLEDEnable==false)
Test Sequence/verifyStep2_2:verify(zeroOutputEnable==false)
Test Sequence/verifyStep2_3:verify(closedLoopEnable==false &&closedLoopLEDEnable == true)



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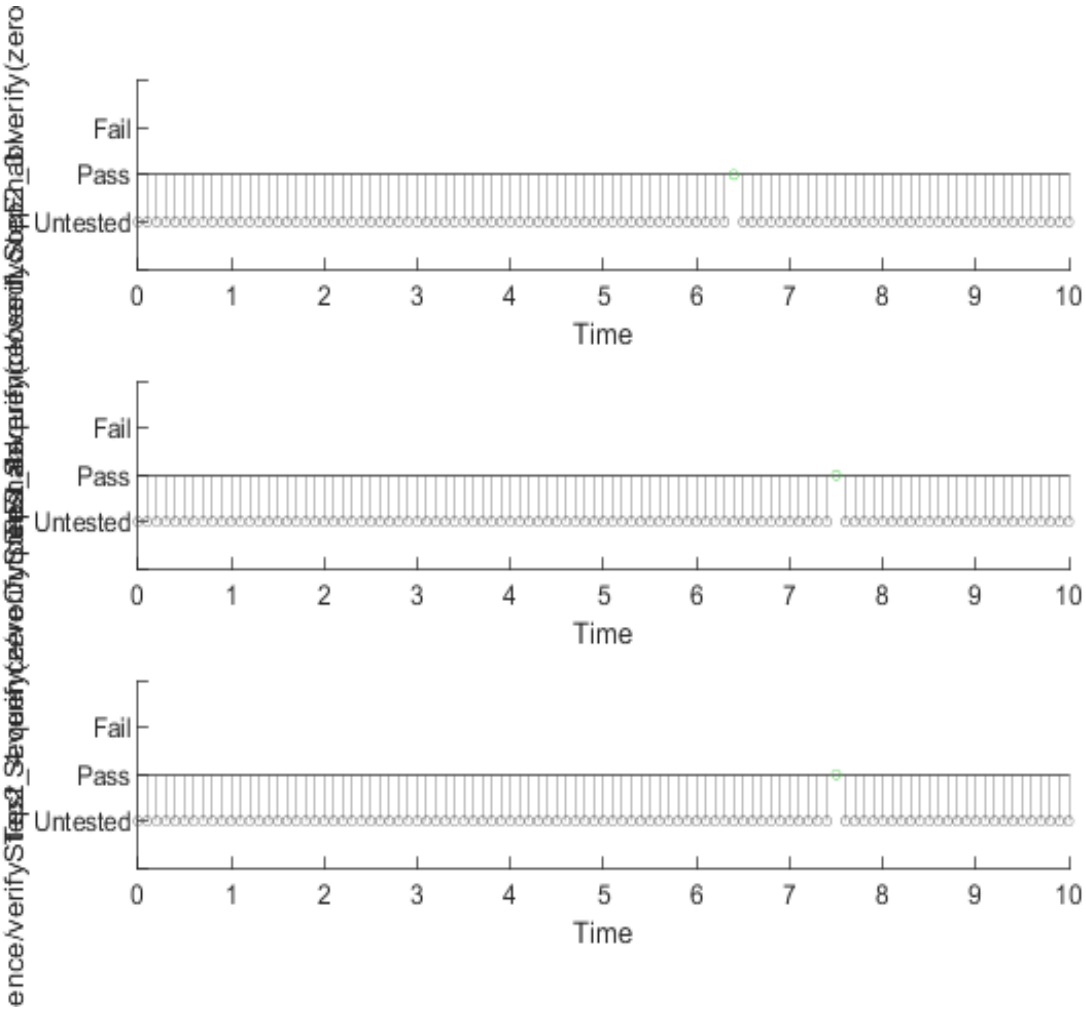
Name
Test Sequence/verifyStep2_3:verify(zeroOutputEnable==false)
Test Sequence/verifyStep2_4:verify(closedLoopEnable&&closedLoopLEDEnable == true)
Test Sequence/verifyStep2_4:verify(zeroOutputEnable==false)



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Simulation

System Under Test Information

Model:	OperatingModeAndErrorLogic
Harness:	OperatingModeAndErrorLogic_RequirementsVerification
Harness Owner:	OperatingModeAndErrorLogic
Release:	Current

Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	10
Checksum:	3071334955 2781418243 3584531251 3722619504

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

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BaselineAndEquivalence_TestFile

Test Result Information

Result Type:	Test File Result
Parent:	Results: 2024-Jun-07 08:08:51
Start Time:	07-Jun-2024 08:09:20
End Time:	07-Jun-2024 08:09:36
Outcome:	Total: 1, Passed: 1

Test Suite Information

Name:	BaselineAndEquivalence_TestFile

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Functional Scenario Equivalence

Test Result Information

Result Type:	Test Suite Result
Parent:	BaselineAndEquivalence_TestFile
Start Time:	07-Jun-2024 08:09:20

End Time: 07-Jun-2024 08:09:36
Outcome: Total: 1, Passed: 1
Description:

This test suite will go through various functional scenario, and compared them to the saved results from 2024a. This series of tests is only used to verify possible regressions cross releases, model configuration changes and impact on results from refactoring. No requirements are validated.

Test Suite Information

Name: Functional Scenario Equivalence

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IntroductionScenario

Test Result Information

Result Type: Test Case Result
Parent: Functional Scenario Equivalence
Start Time: 07-Jun-2024 08:09:20
End Time: 07-Jun-2024 08:09:36
Outcome: Passed
Description:

This a regression test using the "introduction scenario" which is the deafult scenario when opening the project and model.

Test Case Information

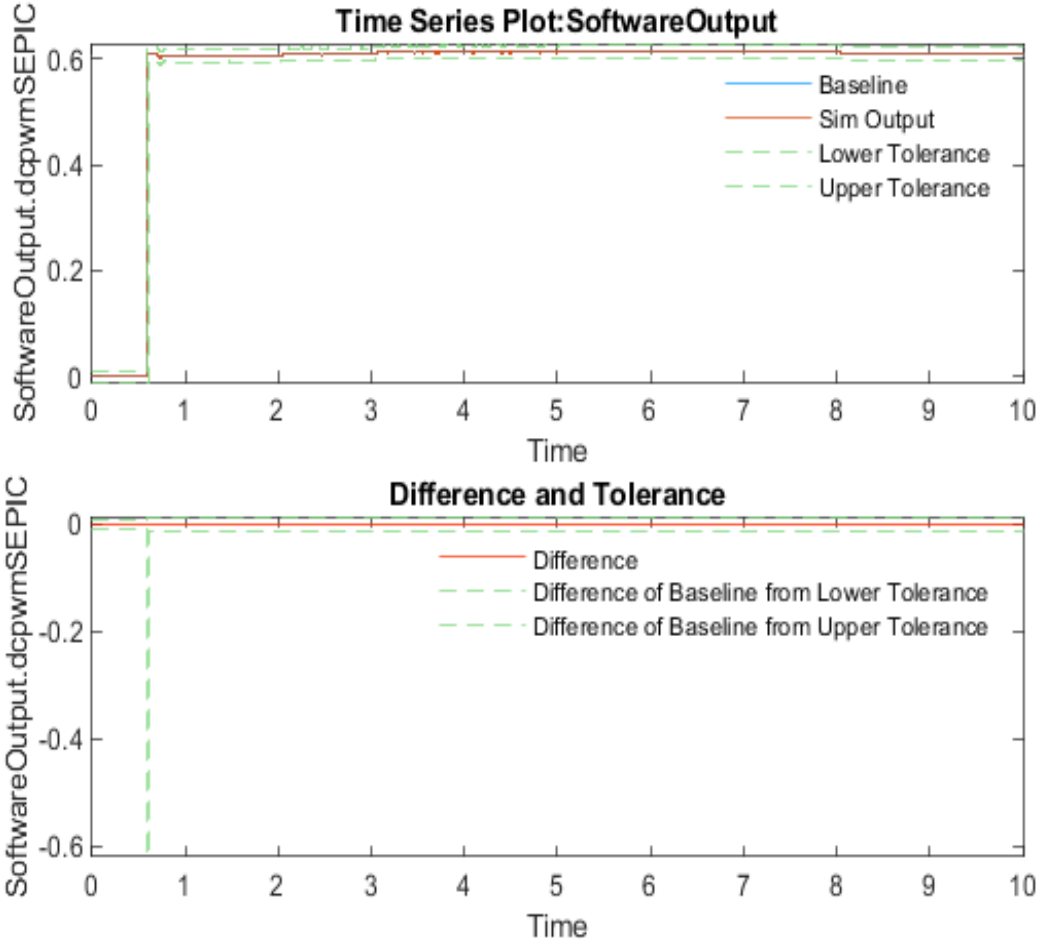
Name: IntroductionScenario
Type: Baseline Test
Baseline Name: Baseline_IntroductionScenario.mat
Baseline File: C:\VersionControl\Git\MBD_for_SEPIC\Data\ScenarioAndBaseline\Baseline_IntroductionScenario.mat

Baseline 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
Software Output.dcpwmSEPIC	0.01	0.02	0.0001	0.0001	0	single	1	0.001	single	1	0.001	zoh	union	Link
Software Output.dcpwmLEDvector(1)	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union	Link
Sensors.voltSEPIC	0.05	0.02	0.0001	0.0001	0	single		0.0005	single		0.0005	zoh	union	Link
Sensors.currSEPIC	10	0.02	0.0001	0.0001	0	single		0.0005	single		0.0005	zoh	union	Link
Sensors.currLEDstrips(1)	5	0.02	0.0001	0.0001	0	single			single		0.0005	zoh	union	Link
Sensors.voltPSU	0.05	0.02	0.0001	0.0001	0	single		0.0005	single		0.0005	zoh	union	Link
Software Output.dcpwmLEDvector(2)	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union	Link
Software Output.dcpwmLEDvector(3)	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union	Link
Software Output.dcpwmLEDvector(4)	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union	Link
Software Output.dcpwmLEDvector(5)	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union	Link
Software Output.dcpw	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union	Link

mLEDvector(6)														
Sensors.currLEDstrips(2)	5	0.02	0.0001	0.0001	0	single			single		0.0005	zoh	union	Link
Sensors.currLEDstrips(3)	5	0.02	0.0001	0.0001	0	single			single		0.0005	zoh	union	Link
Sensors.currLEDstrips(4)	5	0.02	0.0001	0.0001	0	single			single		0.0005	zoh	union	Link
Sensors.currLEDstrips(5)	5	0.02	0.0001	0.0001	0	single			single		0.0005	zoh	union	Link
Sensors.currLEDstrips(6)	5	0.02	0.0001	0.0001	0	single			single		0.0005	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
Software Output.dcpwmSEPIC	0.01	0.02	0.0001	0.0001	0	single	1	0.001	single	1	0.001	zoh	union



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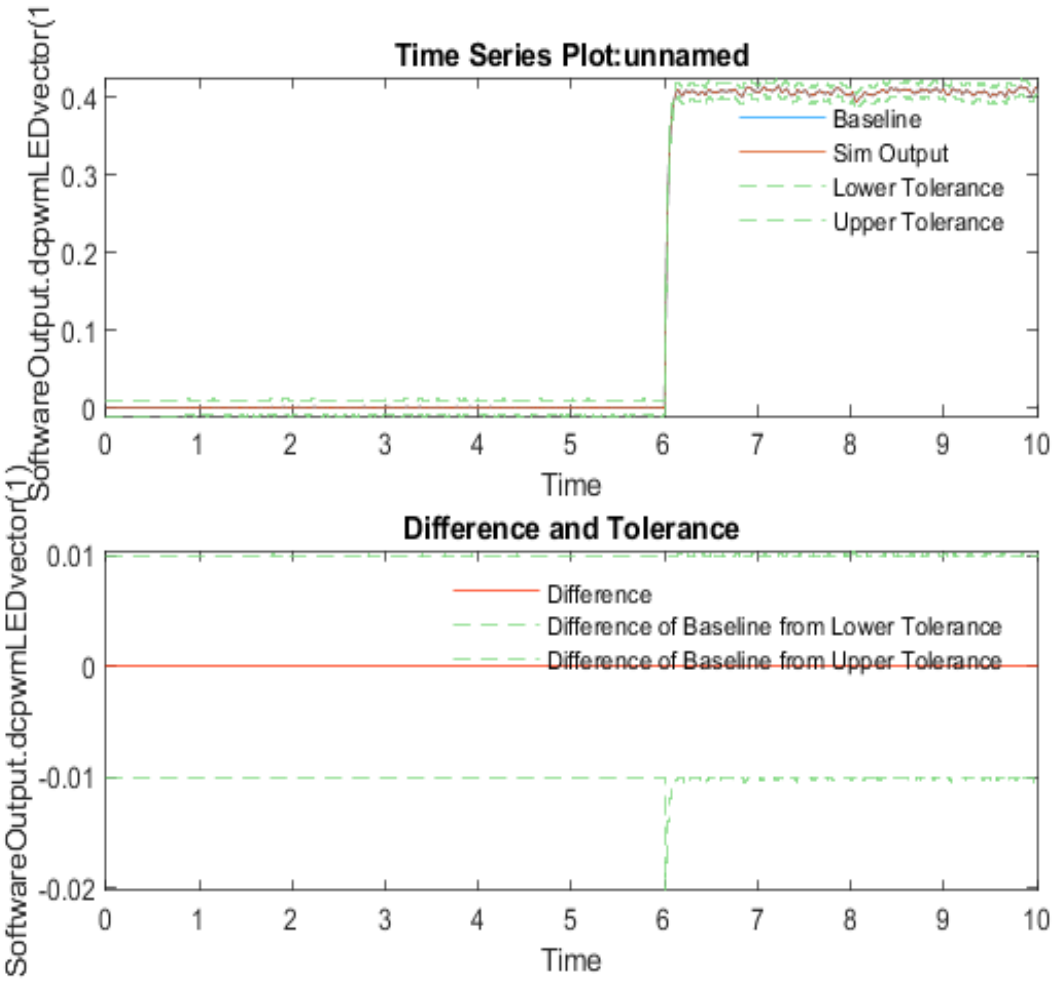
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Software Output.dcpwmLEDvector(1)	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union



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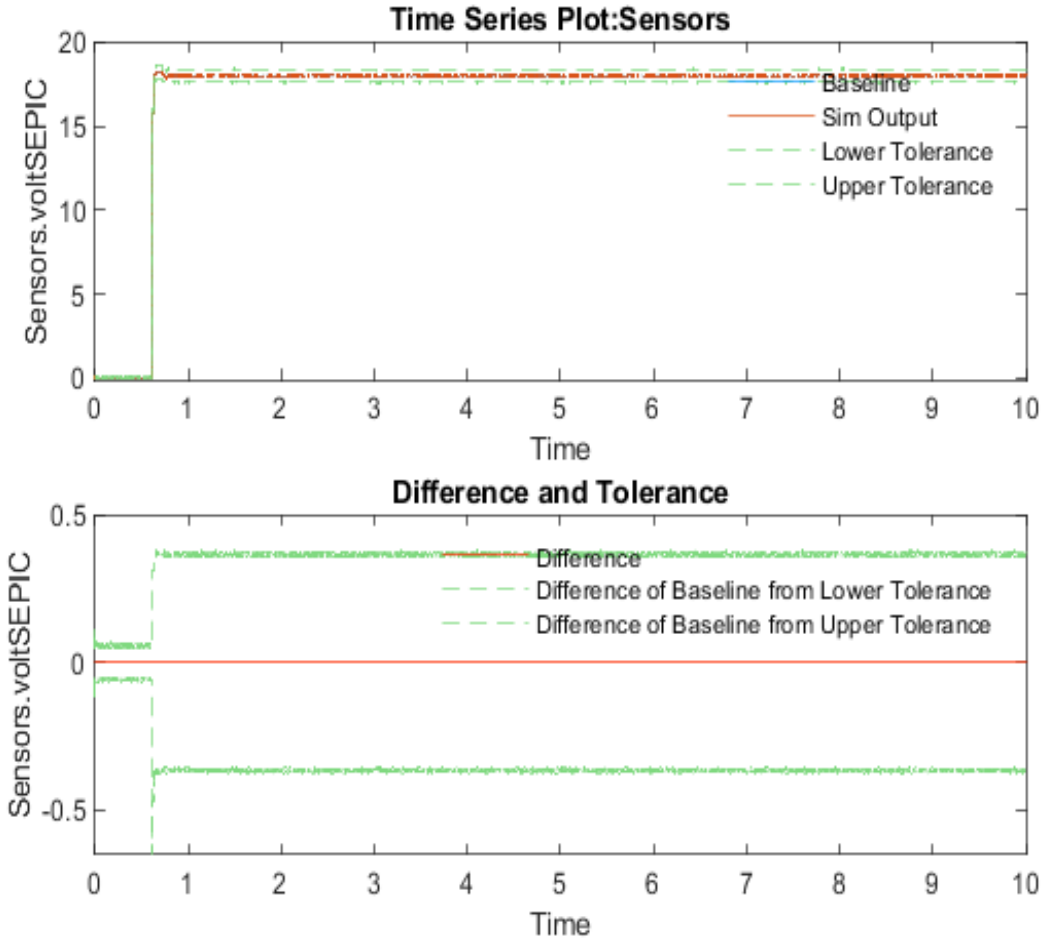
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Sensors.voltSEPIC	0.05	0.02	0.0001	0.0001	0	single		0.0005	single		0.0005	zoh	union



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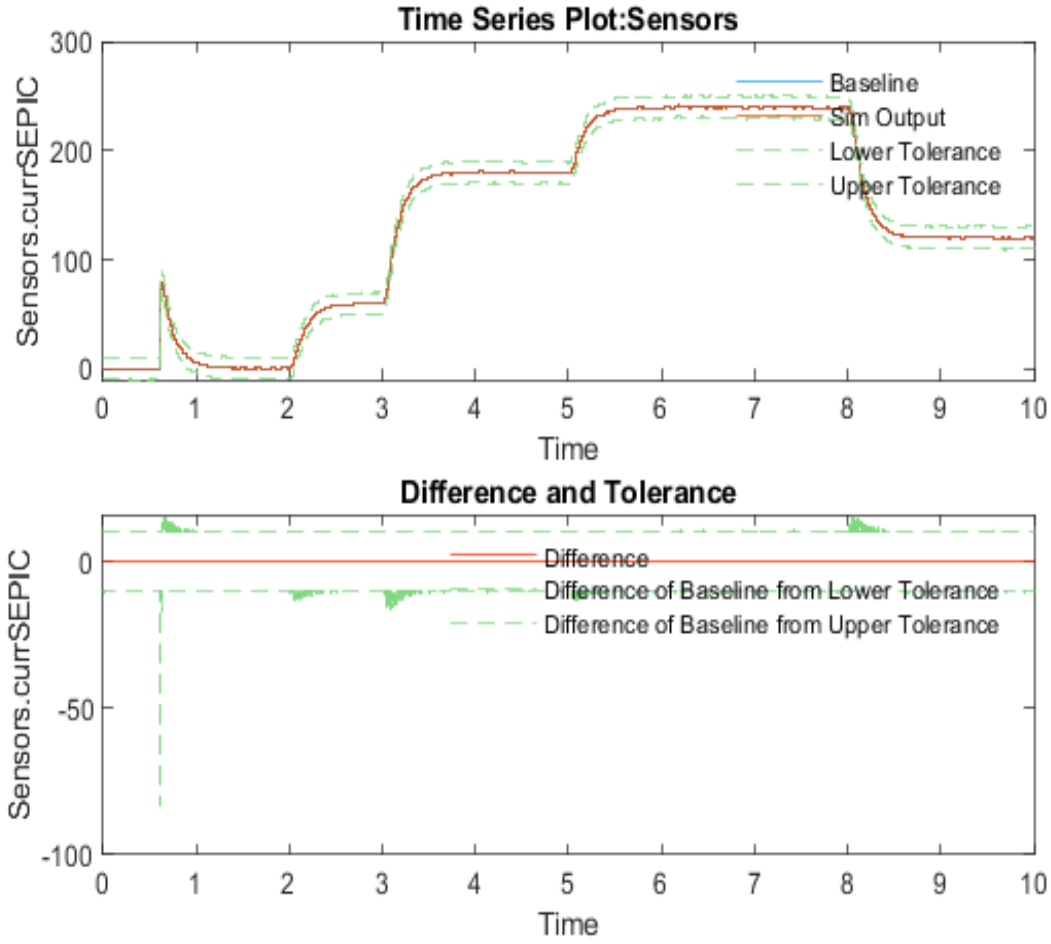
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Sensors.currSEPIC	10	0.02	0.0001	0.0001	0	single		0.0005	single		0.0005	zoh	union



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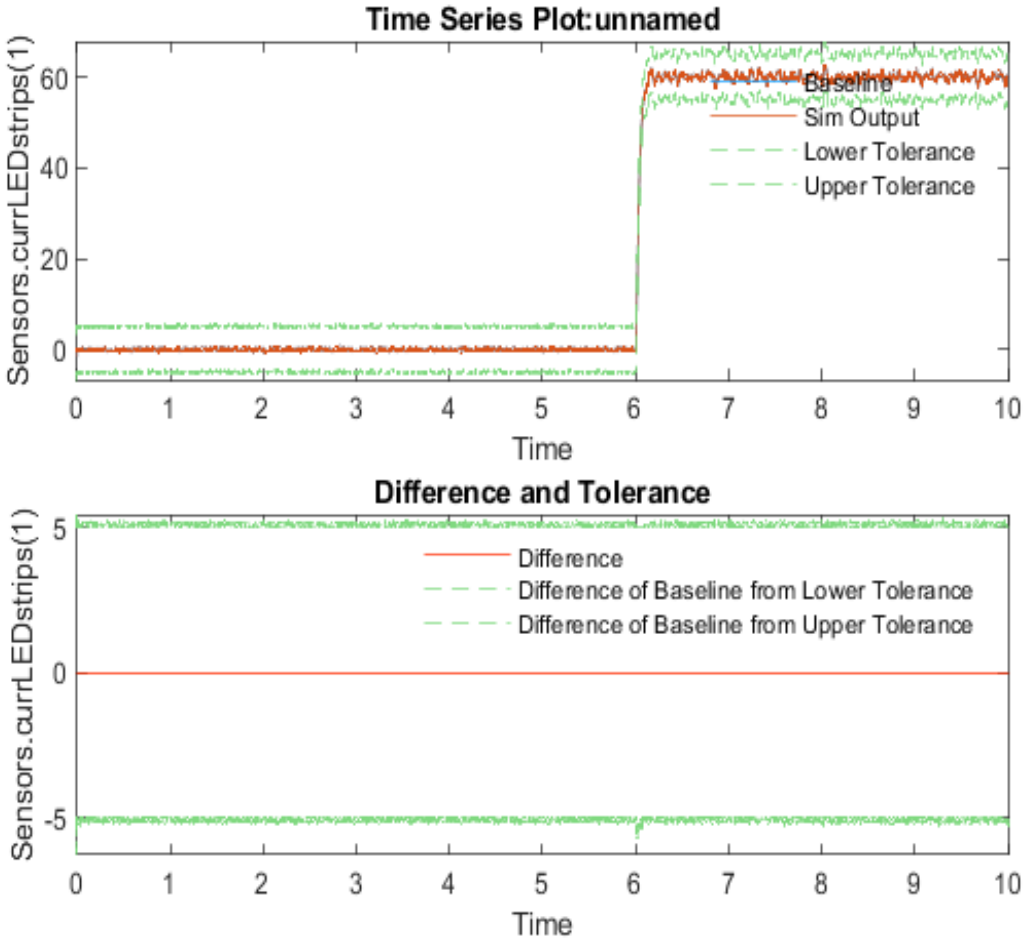
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Sensors.currLEDstrips(1)	5	0.02	0.0001	0.0001	0	single			single		0.0005	zoh	union



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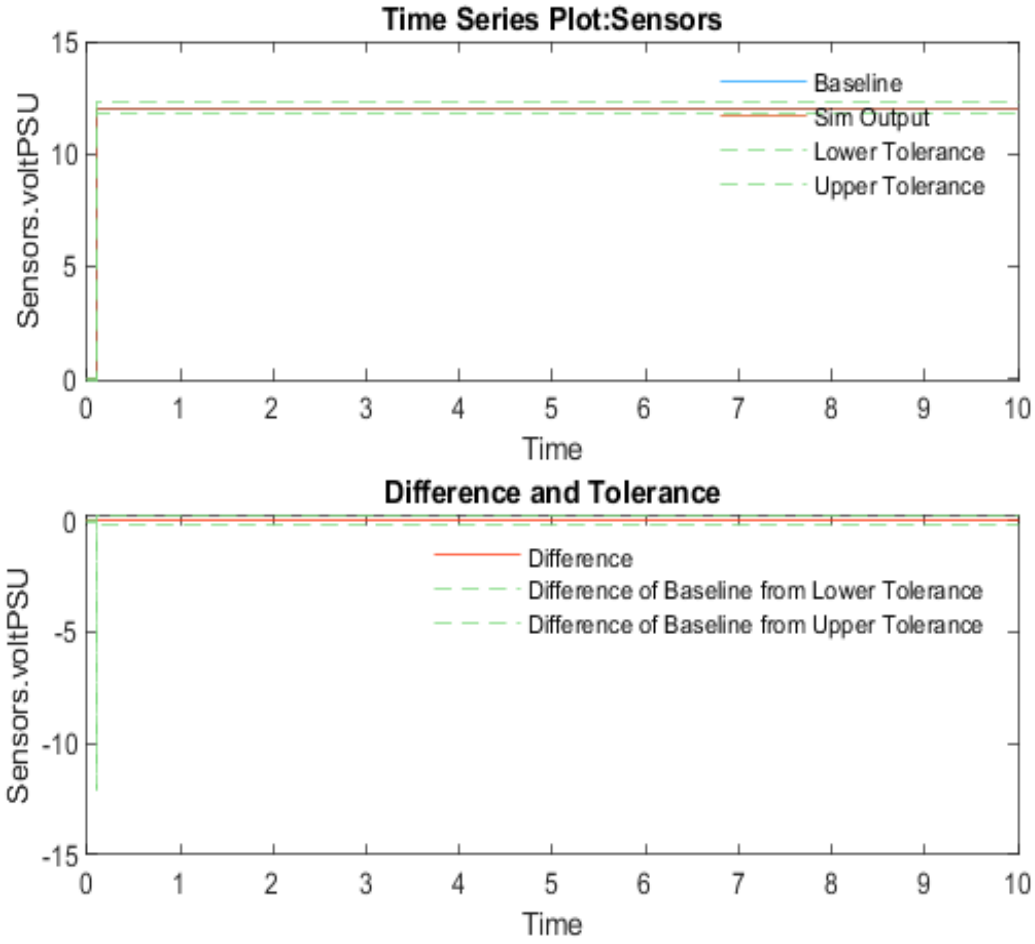
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Sensors.voltPSU	0.05	0.02	0.0001	0.0001	0	single		0.0005	single		0.0005	zoh	union



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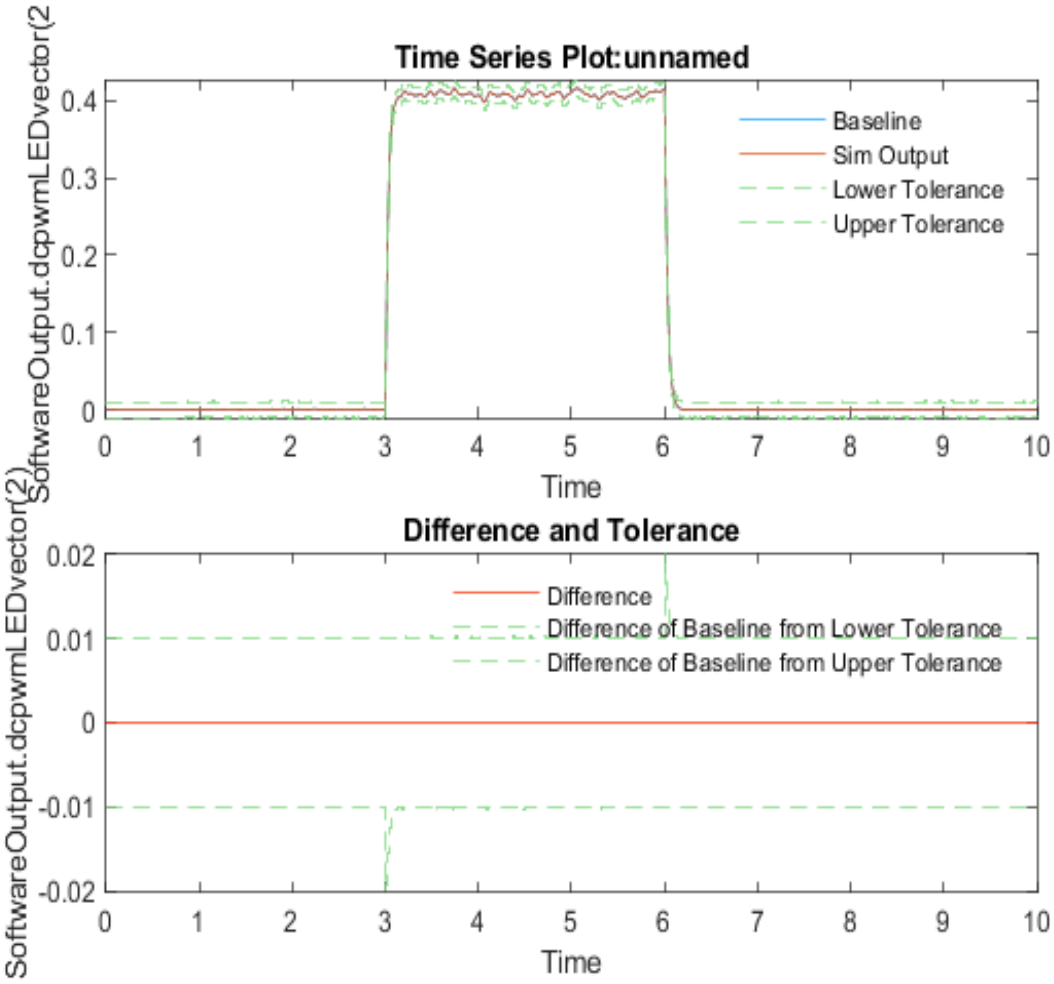
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Software Output.dcpwmLEDvector(2)	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union



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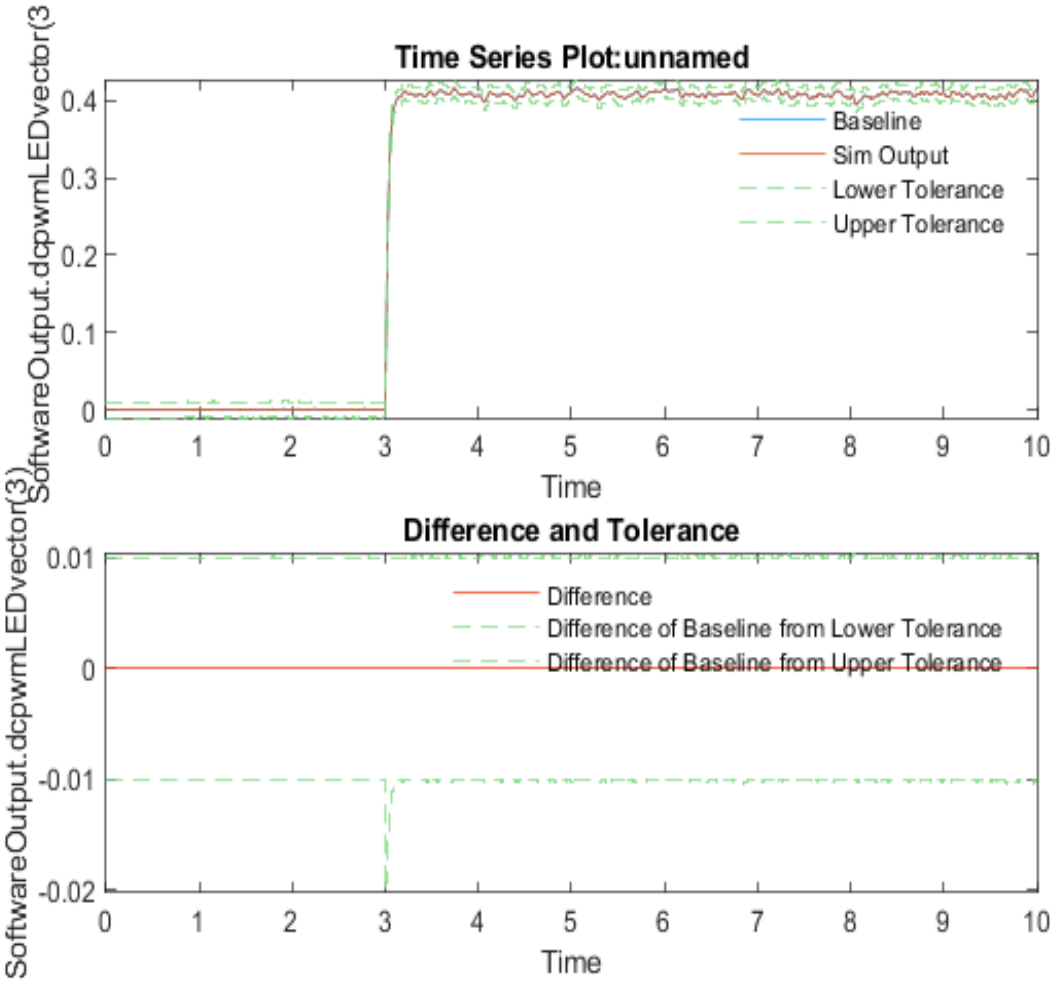
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Software Output.dcpwmLEDvector(3)	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union



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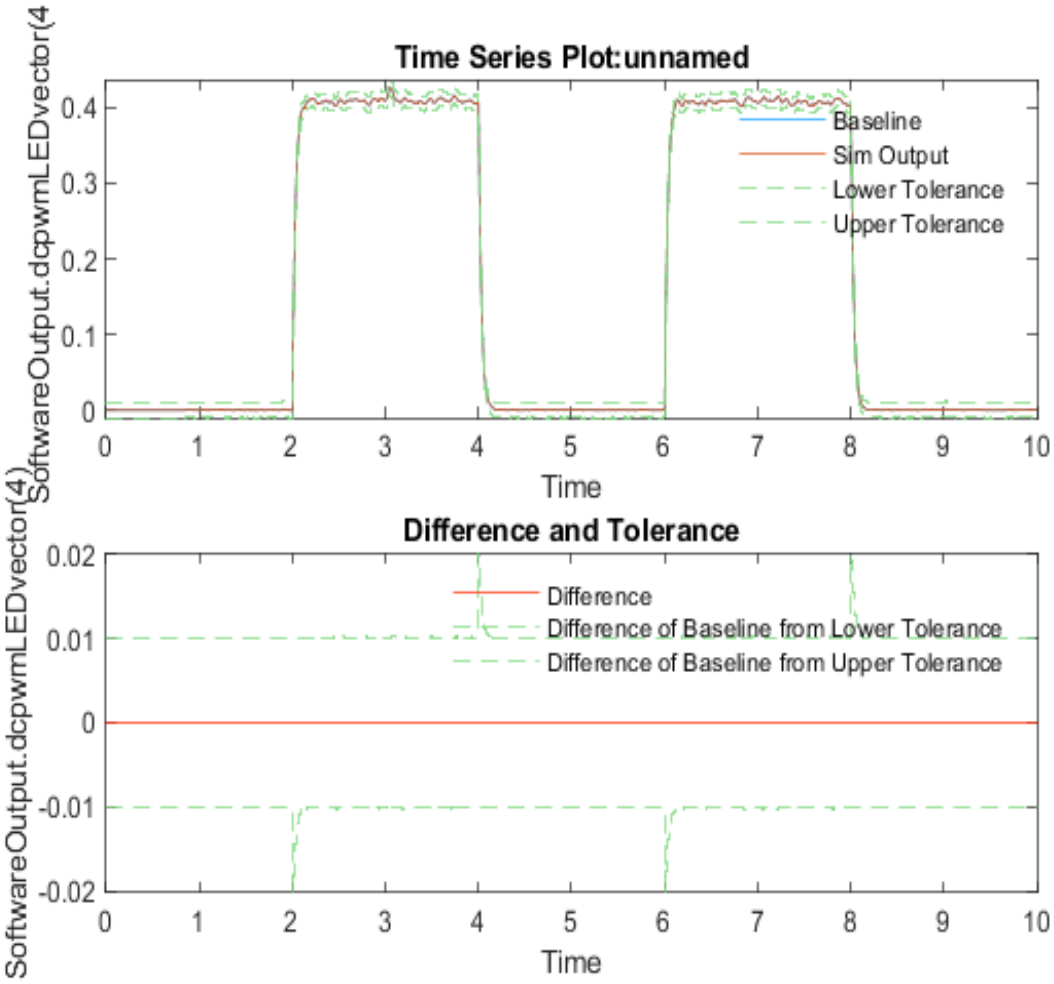
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Software Output.dcpwmLEDvector(4)	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union



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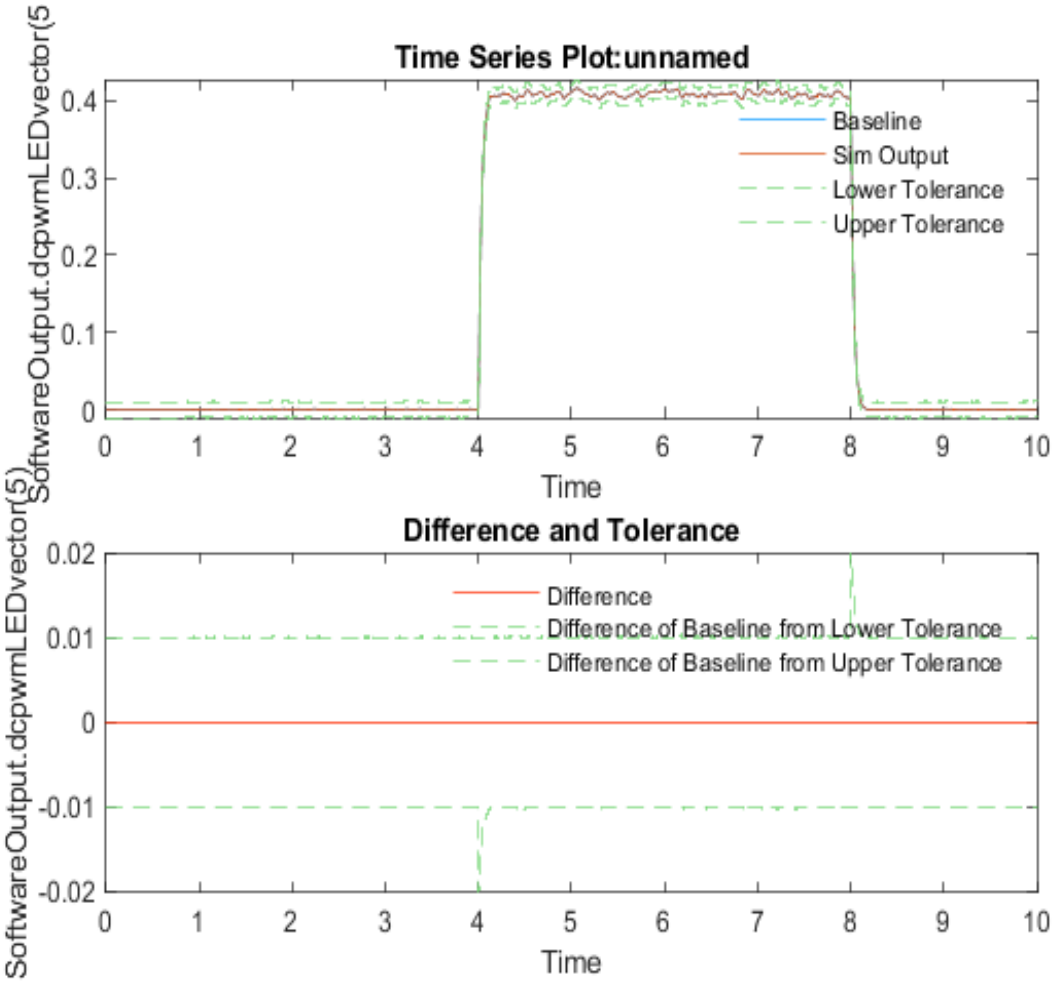
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Software Output.dcpwmLEDvector(5)	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union



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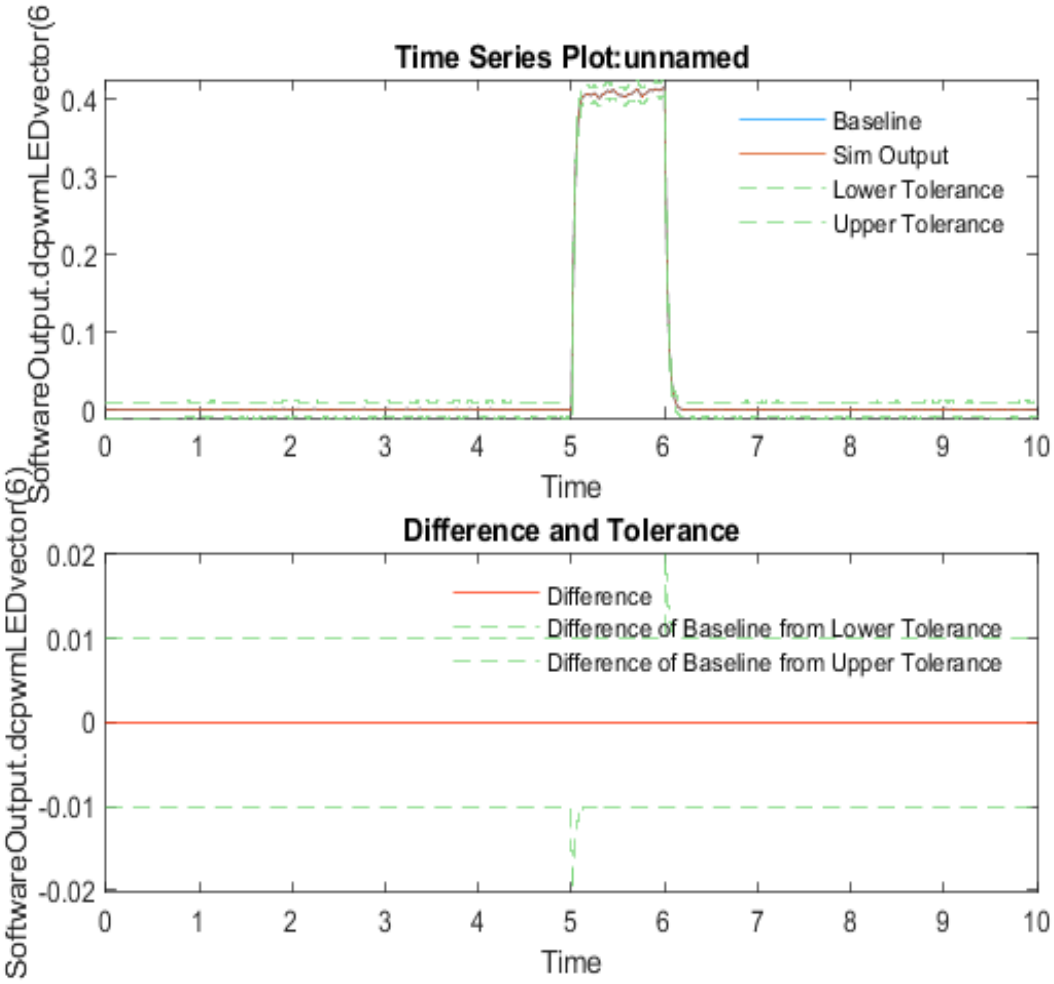
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Software Output.dcpwmLEDvector(6)	0.01	0.02	0.0001	0.0001	0	single	1		single	1	0.001	zoh	union



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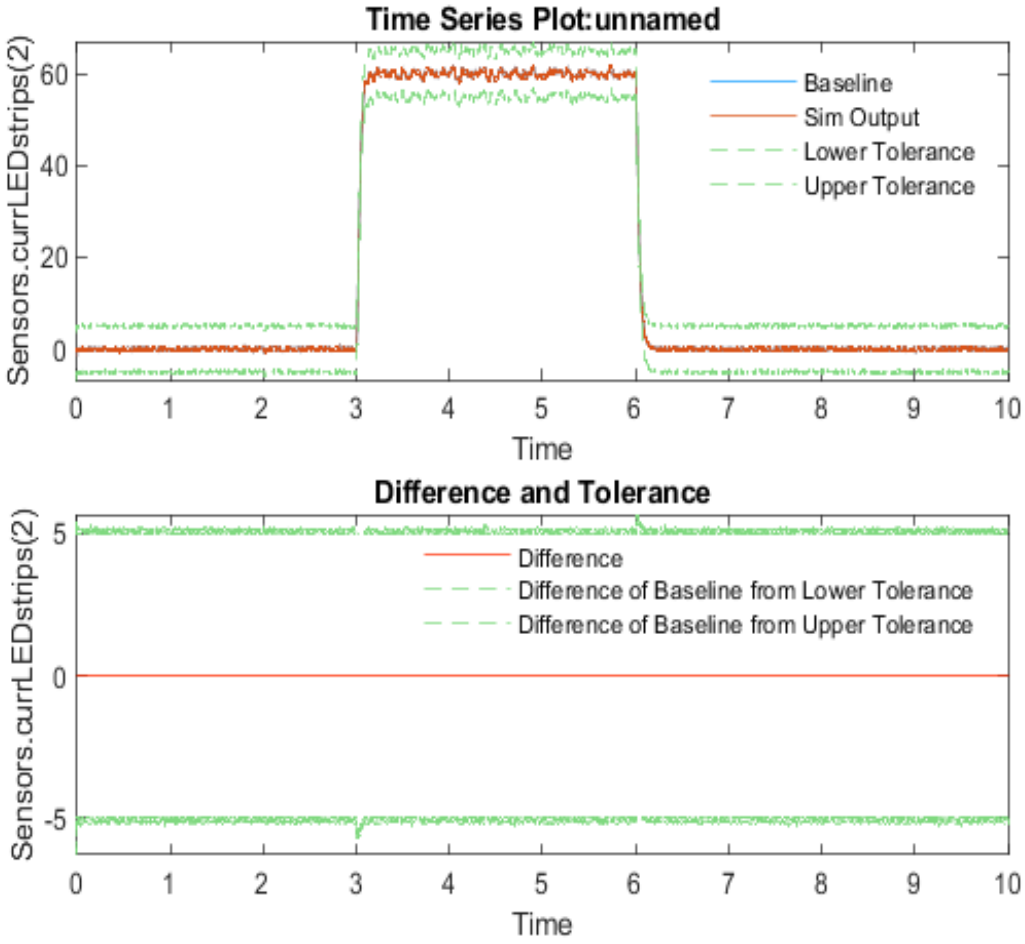
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Sensors.currLEDstrips(2)	5	0.02	0.0001	0.0001	0	single			single		0.0005	zoh	union



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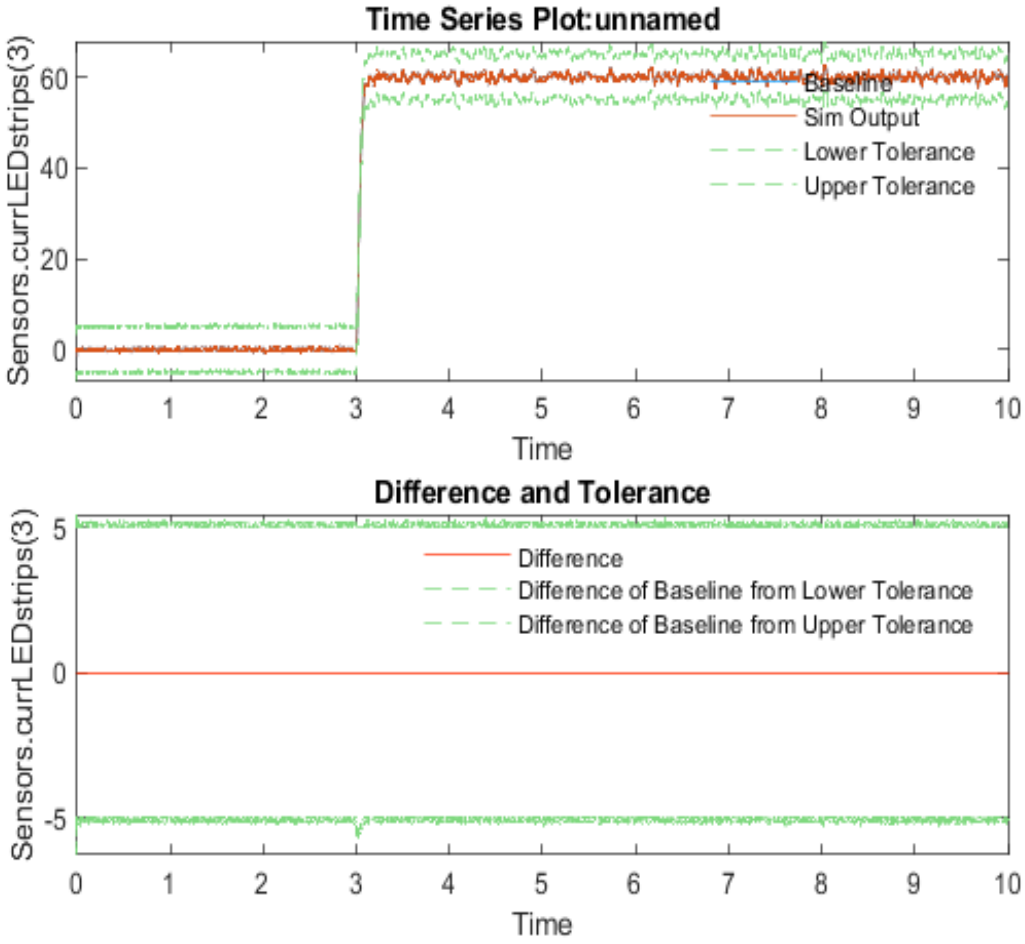
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Sensors.currLEDstrips(3)	5	0.02	0.0001	0.0001	0	single			single		0.0005	zoh	union



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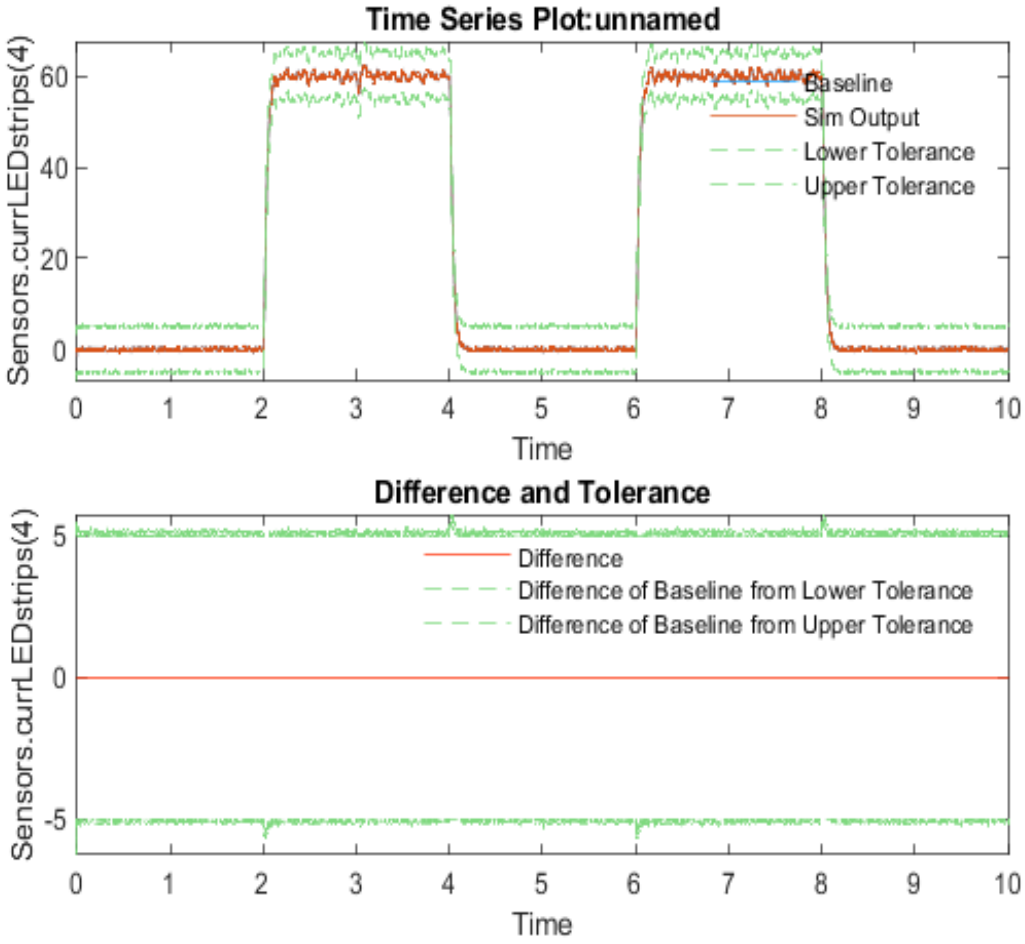
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Sensors.currLEDstrips(4)	5	0.02	0.0001	0.0001	0	single			single		0.0005	zoh	union



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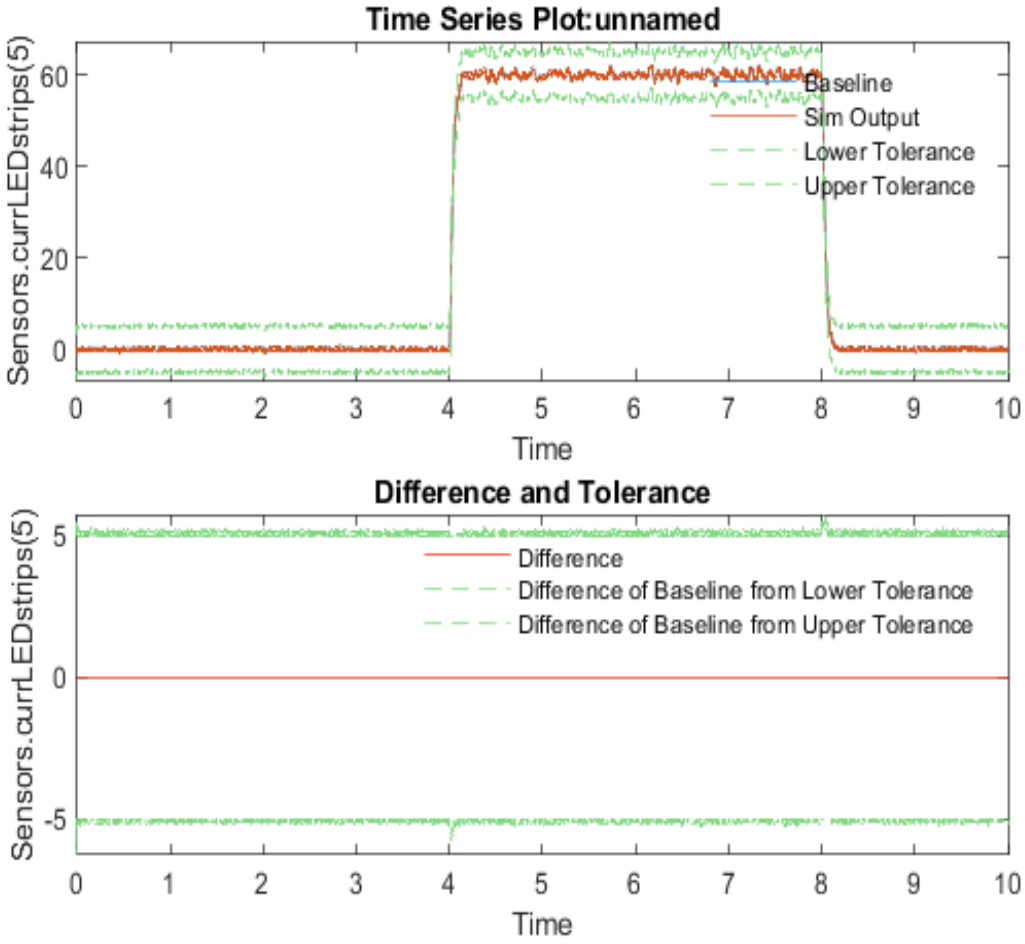
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Sensors.currLEDstrips(5)	5	0.02	0.0001	0.0001	0	single			single		0.0005	zoh	union



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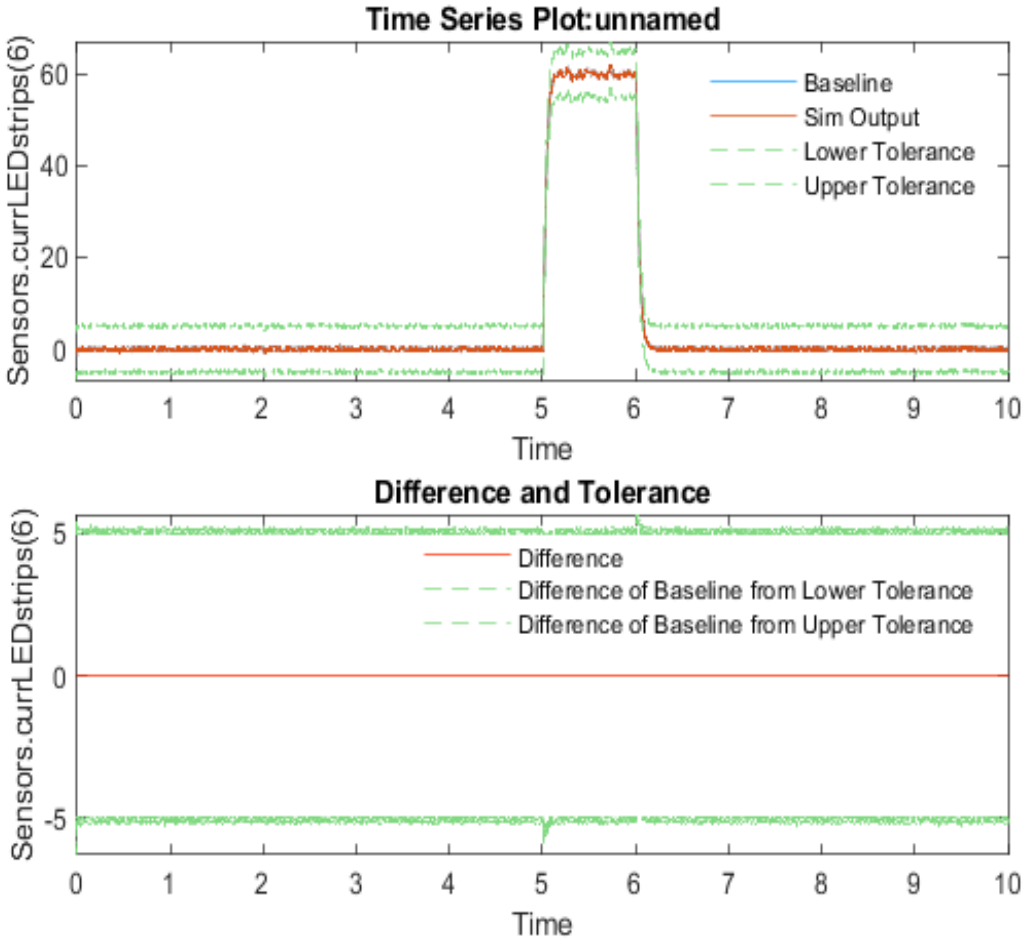
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
Sensors.currLEDstrips(6)	5	0.02	0.0001	0.0001	0	single			single		0.0005	zoh	union



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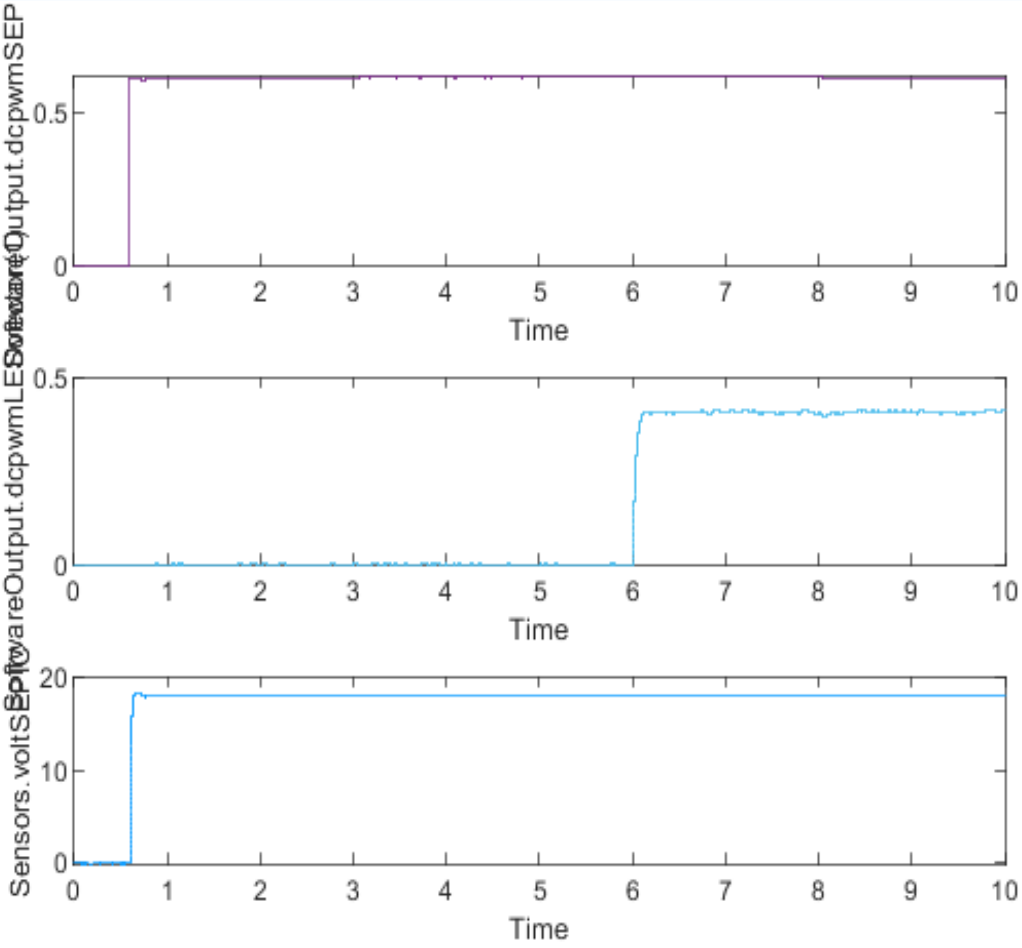
Baseline_IntroductionScenario.mat

Baseline Information

Baseline Name:	Baseline_IntroductionScenario.mat
Baseline File:	C:\VersionControl\Git\MBD_for_SEPIC\Data\ScenarioAndBaseline\Baseline_IntroductionScenario.mat

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
SoftwareOutput.dcpwmSEPIC	single	1	0.001	zoh	union	Link
SoftwareOutput.dcpwmLEDvector(1)	single	1		zoh	union	Link
Sensors.voltSEPIC	single		0.0005	zoh	union	Link
Sensors.currSEPIC	single		0.0005	zoh	union	Link
Sensors.currLEDstrips(1)	single			zoh	union	Link
Sensors.voltPSU	single		0.0005	zoh	union	Link
SoftwareOutput.dcpwmLEDvector(2)	single	1		zoh	union	Link
SoftwareOutput.dcpwmLEDvector(3)	single	1		zoh	union	Link
SoftwareOutput.dcpwmLEDvector(4)	single	1		zoh	union	Link
SoftwareOutput.dcpwmLEDvector(5)	single	1		zoh	union	Link
SoftwareOutput.dcpwmLEDvector(6)	single	1		zoh	union	Link
Sensors.currLEDstrips(2)	single			zoh	union	Link
Sensors.currLEDstrips(3)	single			zoh	union	Link
Sensors.currLEDstrips(4)	single			zoh	union	Link
Sensors.currLEDstrips(5)	single			zoh	union	Link
Sensors.currLEDstrips(6)	single			zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
SoftwareOutput.dcpwmSEPIC	single	1	0.001	zoh	union
SoftwareOutput.dcpwmLEDvector(1)	single	1		zoh	union
Sensors.voltSEPIC	single		0.0005	zoh	union



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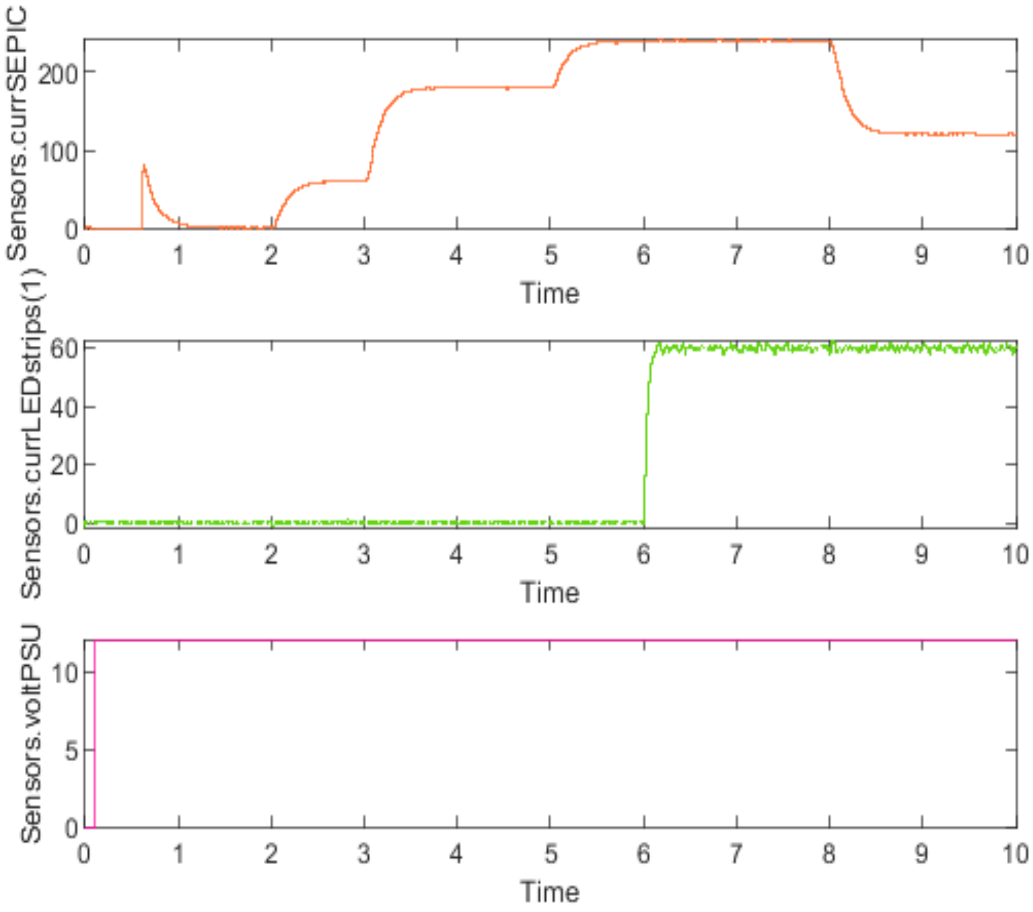
Name	Data Type	Units	Sample Time	Interp	Sync
Sensors.currSEPIC	single		0.0005	zoh	union
Sensors.currLEDstrips(1)	single			zoh	union
Sensors.voltPSU	single		0.0005	zoh	union



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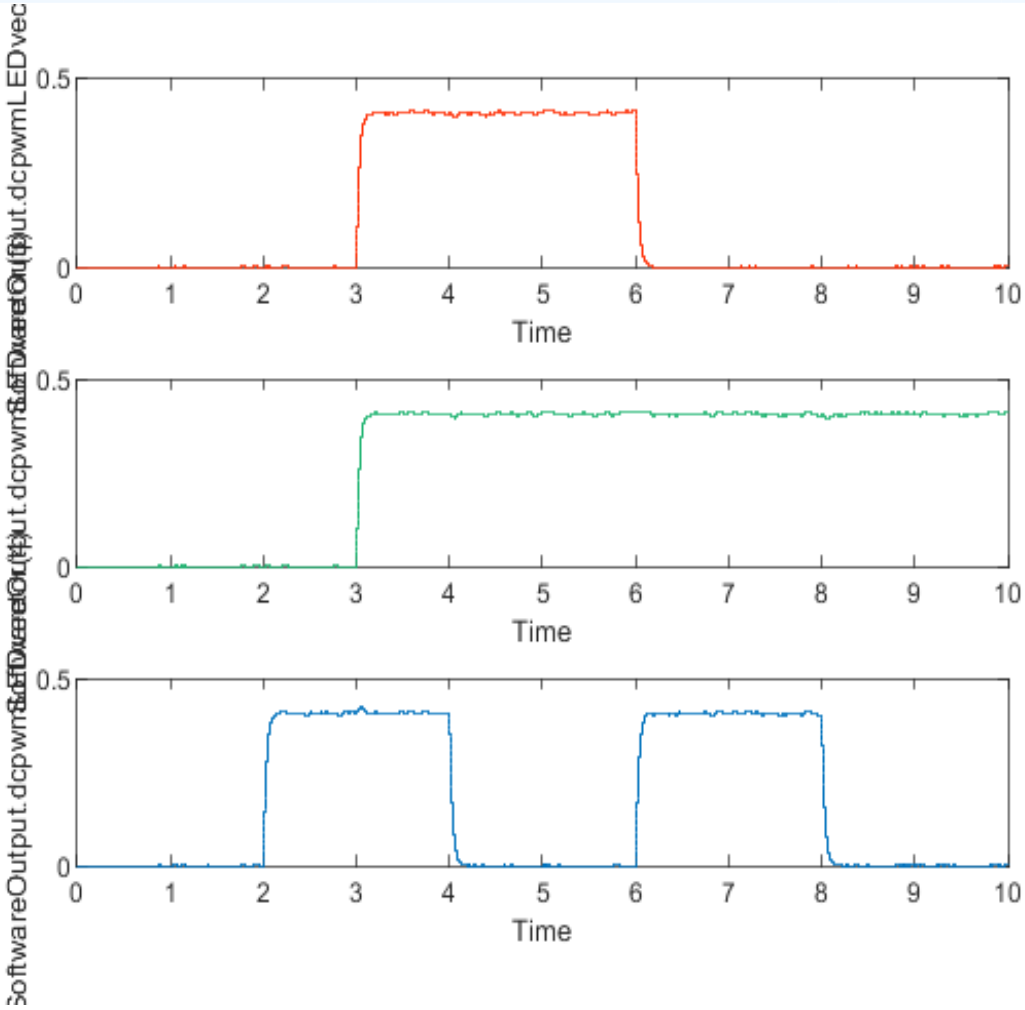
Name	Data Type	Units	Sample Time	Interp	Sync
SoftwareOutput.dcp wmLEDvector(2)	single	1		zoh	union
SoftwareOutput.dcp wmLEDvector(3)	single	1		zoh	union
SoftwareOutput.dcp wmLEDvector(4)	single	1		zoh	union



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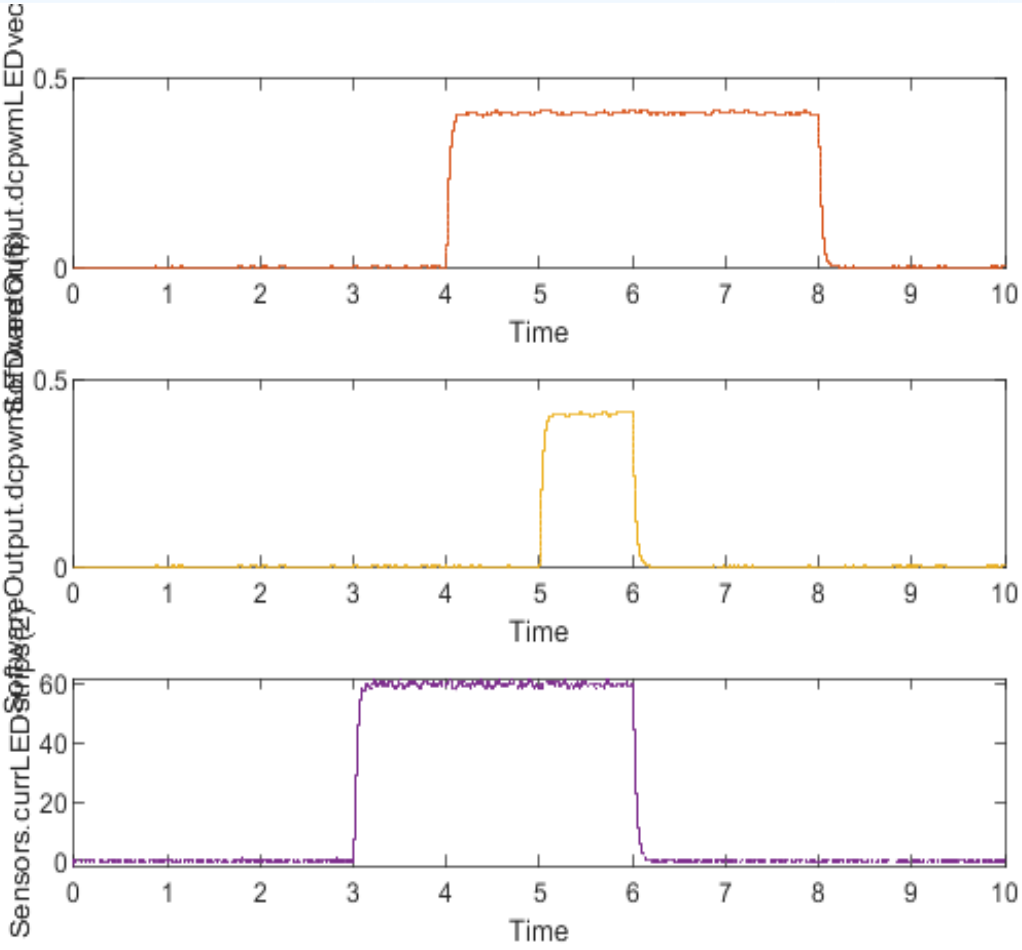
Name	Data Type	Units	Sample Time	Interp	Sync
SoftwareOutput.dcpwmLEDvector(5)	single	1		zoh	union
SoftwareOutput.dcpwmLEDvector(6)	single	1		zoh	union
Sensors.currLEDstrips(2)	single			zoh	union



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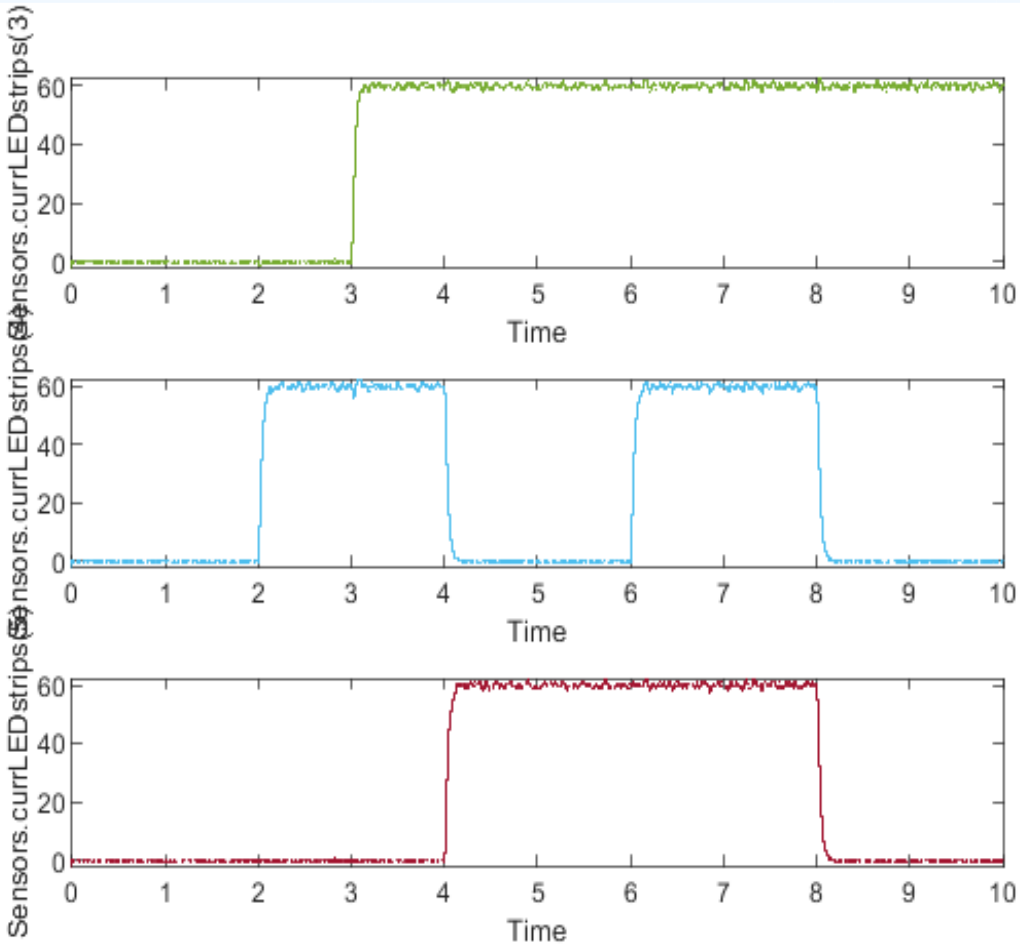
Name	Data Type	Units	Sample Time	Interp	Sync
Sensors.currLEDstrips(3)	single			zoh	union
Sensors.currLEDstrips(4)	single			zoh	union
Sensors.currLEDstrips(5)	single			zoh	union



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Simulation

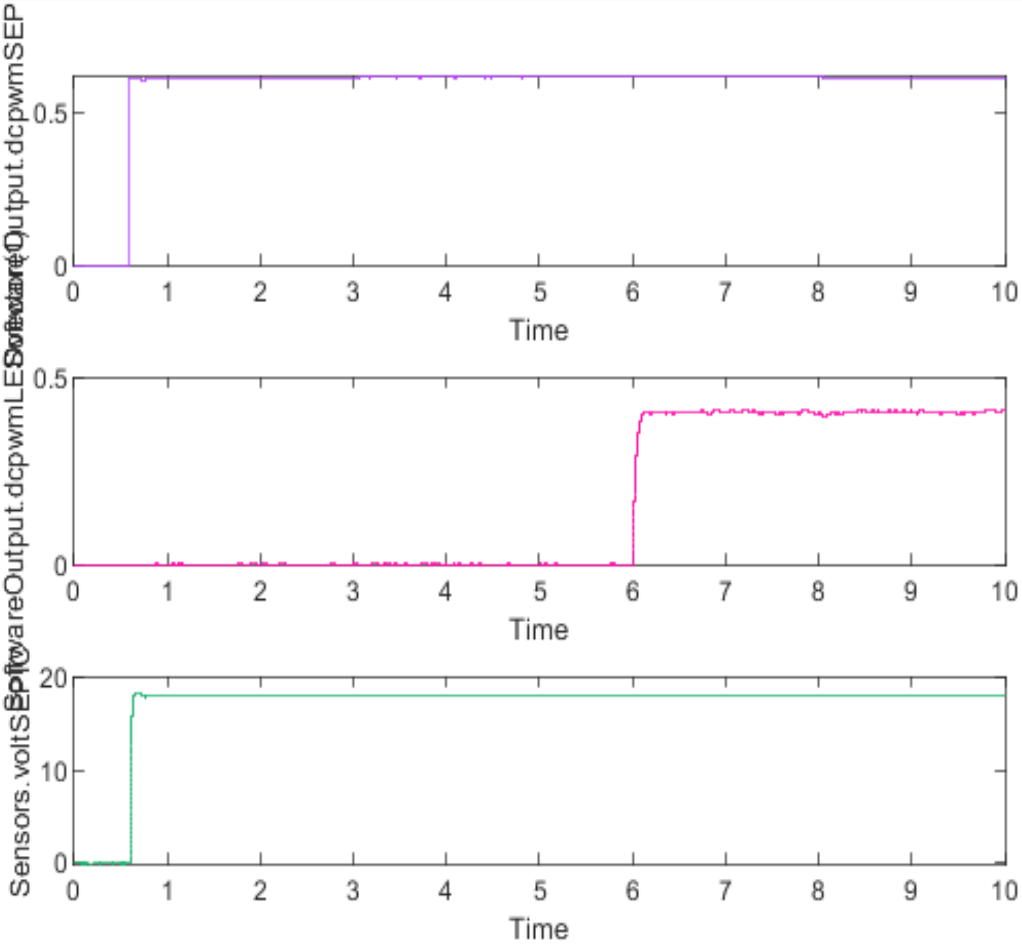
System Under Test Information

Model:	DCDC_SEPIC_TopLevelModel
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	ConfigSet_ode23t_TopLevel
External Input Name:	TopLevel_IntroductionScenario.mat
External Input File:	C:\VersionControl\Git\MBD_for_SEPIC\Data\ScenarioAndBaseline\TopLevel_IntroductionScenario.mat
Start Time:	0
Stop Time:	10
Checksum:	2693543987 4179266261 3017007837 1814957089

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
SoftwareOutput.dcpwmSEPIC	single	1	0.001	zoh	union	Link
SoftwareOutput.dcpwmLEDvector(1)	single	1	0.001	zoh	union	Link
Sensors.voltSEPIC	single		0.0005	zoh	union	Link
Sensors.currSEPIC	single		0.0005	zoh	union	Link
Sensors.currLEDstrips(1)	single		0.0005	zoh	union	Link
Sensors.voltPSU	single		0.0005	zoh	union	Link
SoftwareOutput.dcpwmLEDvector(2)	single	1	0.001	zoh	union	Link
SoftwareOutput.dcpwmLEDvector(3)	single	1	0.001	zoh	union	Link
SoftwareOutput.dcpwmLEDvector(4)	single	1	0.001	zoh	union	Link
SoftwareOutput.dcpwmLEDvector(5)	single	1	0.001	zoh	union	Link
SoftwareOutput.dcpwmLEDvector(6)	single	1	0.001	zoh	union	Link
Sensors.currLEDstrips(2)	single		0.0005	zoh	union	Link
Sensors.currLEDstrips(3)	single		0.0005	zoh	union	Link
Sensors.currLEDstrips(4)	single		0.0005	zoh	union	Link
Sensors.currLEDstrips(5)	single		0.0005	zoh	union	Link
Sensors.currLEDstrips(6)	single		0.0005	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
SoftwareOutput.dcpwmSEPIC	single	1	0.001	zoh	union
SoftwareOutput.dcpwmLEDvector(1)	single	1	0.001	zoh	union
Sensors.voltSEPIC	single		0.0005	zoh	union



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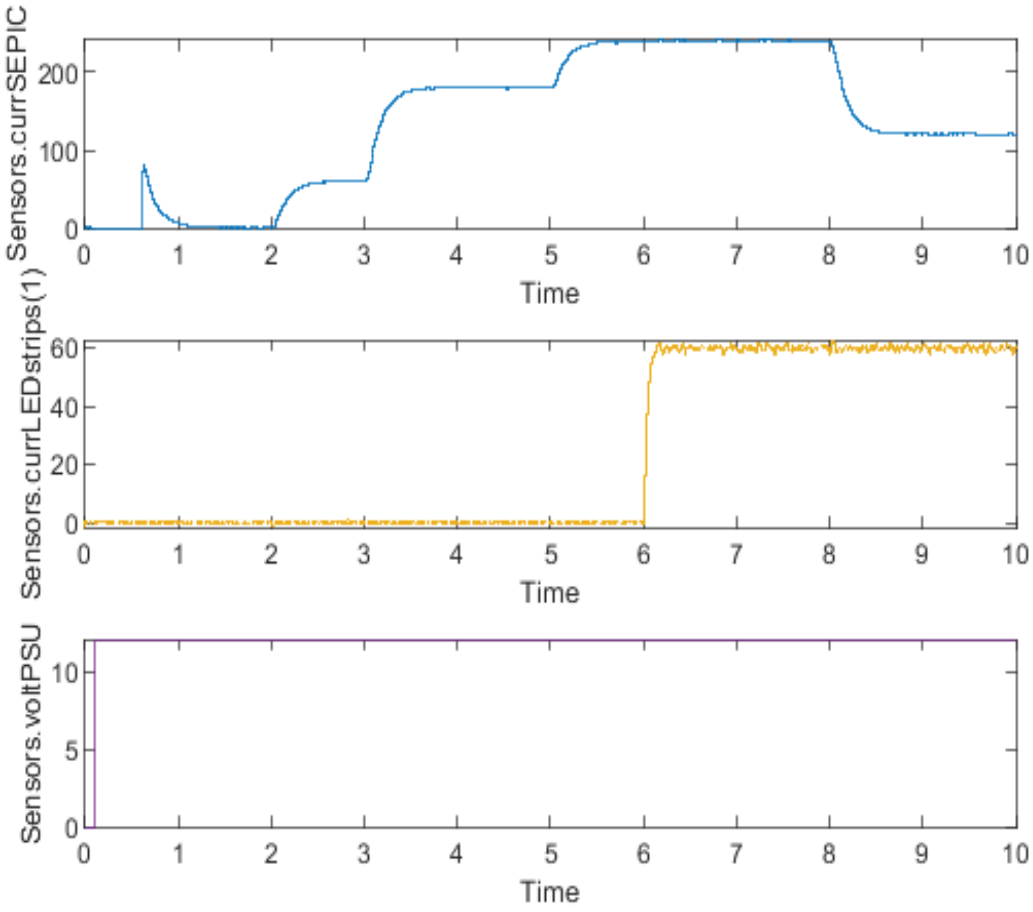
Name	Data Type	Units	Sample Time	Interp	Sync
Sensors.currSEPIC	single		0.0005	zoh	union
Sensors.currLEDstrips(1)	single		0.0005	zoh	union
Sensors.voltPSU	single		0.0005	zoh	union



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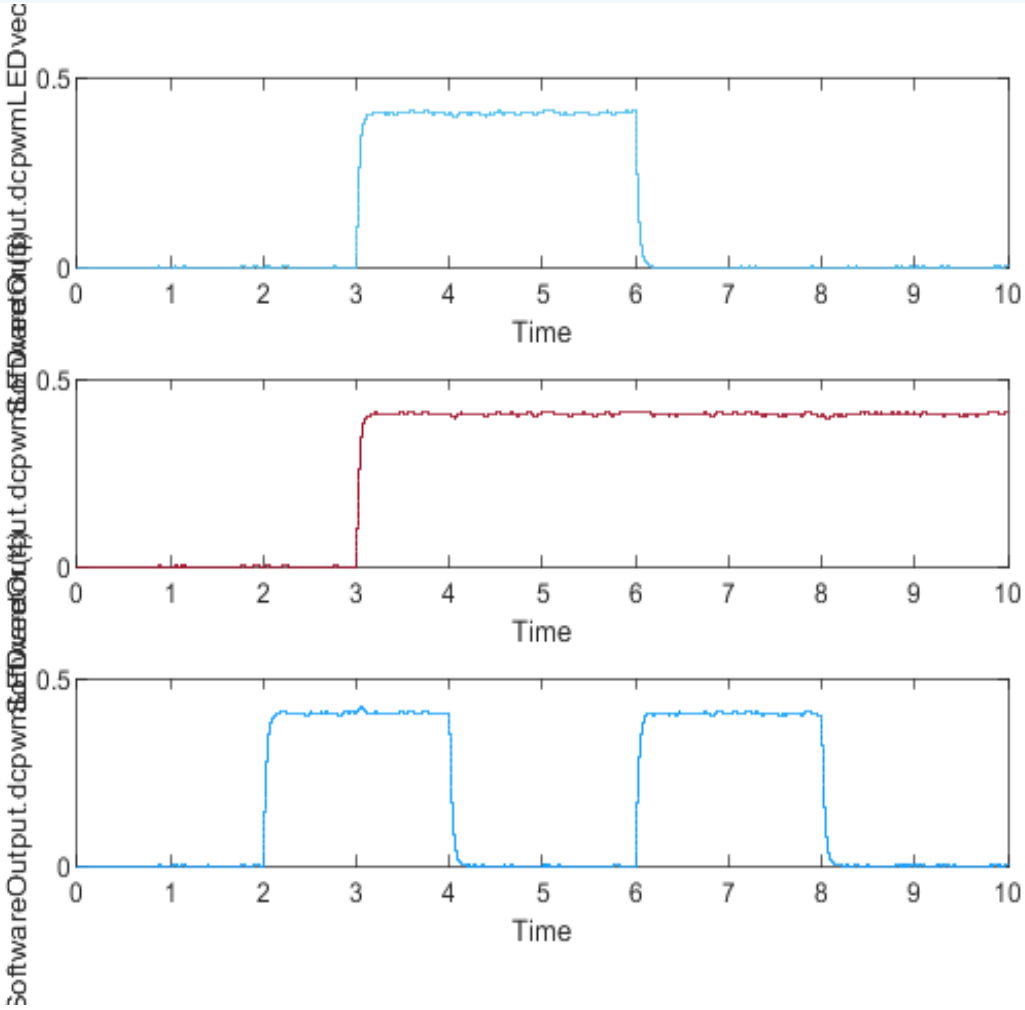
Name	Data Type	Units	Sample Time	Interp	Sync
SoftwareOutput.dcp wmLEDvector(2)	single	1	0.001	zoh	union
SoftwareOutput.dcp wmLEDvector(3)	single	1	0.001	zoh	union
SoftwareOutput.dcp wmLEDvector(4)	single	1	0.001	zoh	union



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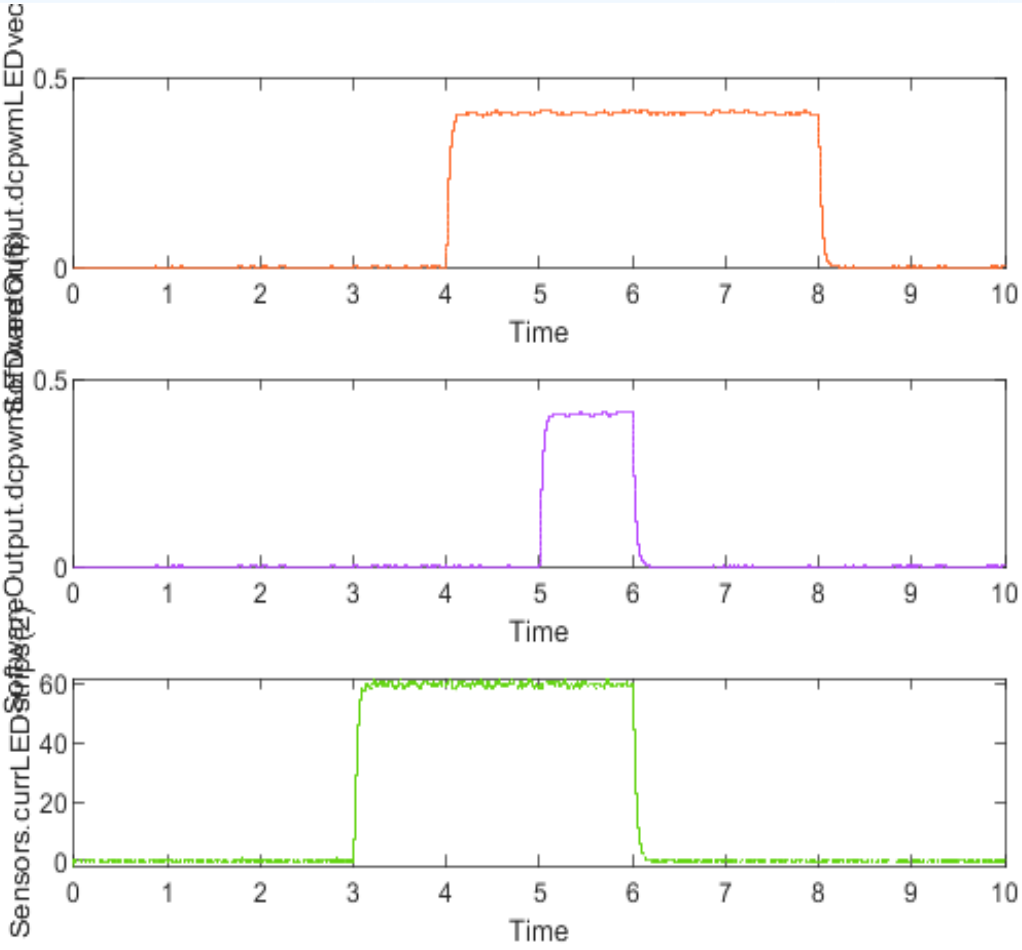
Name	Data Type	Units	Sample Time	Interp	Sync
SoftwareOutput.dcpwmLEDvector(5)	single	1	0.001	zoh	union
SoftwareOutput.dcpwmLEDvector(6)	single	1	0.001	zoh	union
Sensors.currLEDstrips(2)	single		0.0005	zoh	union



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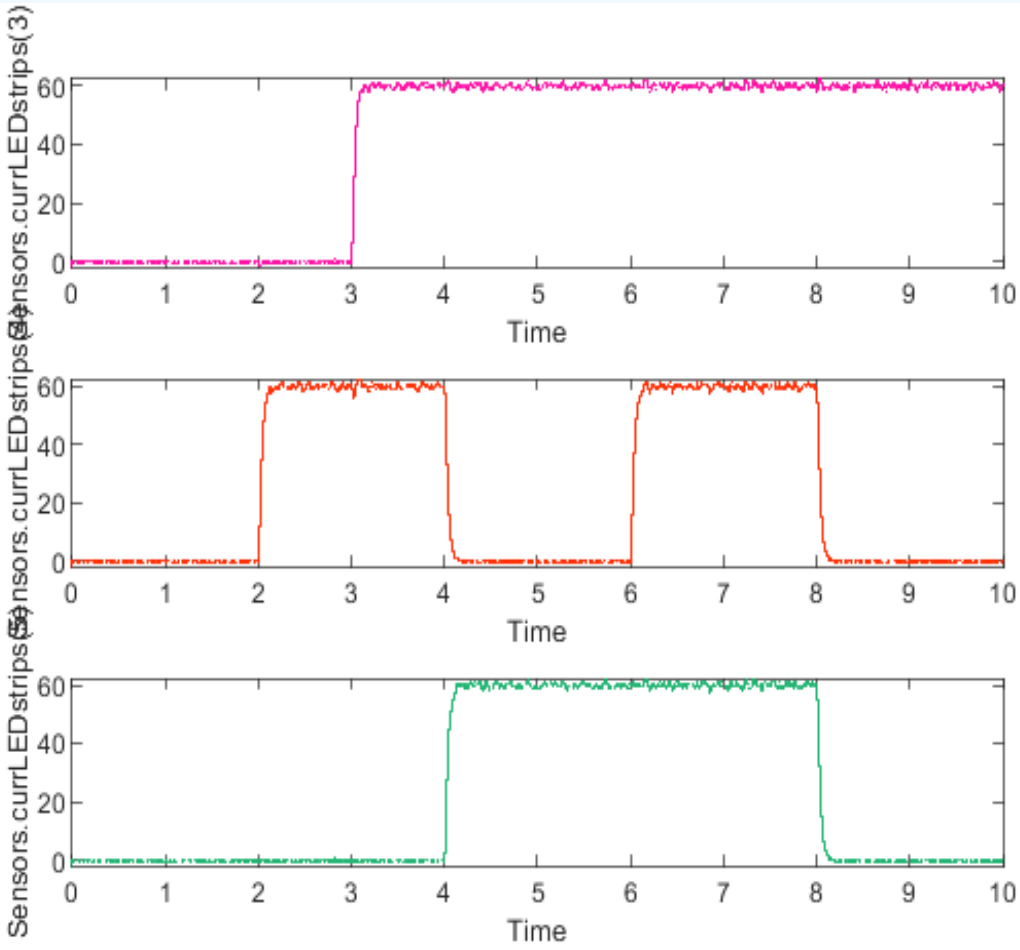
Name	Data Type	Units	Sample Time	Interp	Sync
Sensors.currLEDstrips(3)	single		0.0005	zoh	union
Sensors.currLEDstrips(4)	single		0.0005	zoh	union
Sensors.currLEDstrips(5)	single		0.0005	zoh	union



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