Report Generated by Test Manager

Title: **Test_baseline_01**
Author: **Alessandro Barro, Nicolas Bruscoli, Viviana Ceccarelli, Manuel Cintura, LeonardoChiacchiararelli, Lucia Mariani**
Date: **16-Apr-2021 22:14:39**

Test Environment

Platform: PCWIN64
MATLAB: (R2019b)

Summary

Name	Outcome	Duration (Seconds)
[Results: 2021-Apr-16 22:13:02](#)	✅	3.4
[SoC_handle_FSM_BaselineTest](#)	✅	3.4

Results: 2021-Apr-16 22:13:02

Result Type: Result Set
Parent: None
Start Time: 16-Apr-2021 22:13:02
End Time: 16-Apr-2021 22:13:06
Outcome: Total: 1, Passed: 1
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SoC_handle_FSM_BaselineTest

Test Result Information

Result Type: Test Case Result
Parent: Results: 2021-Apr-16 22:13:02
Start Time: 16-Apr-2021 22:13:02
End Time: 16-Apr-2021 22:13:06
Outcome: Passed

Test Case Information

Name: SoC_handle_FSM_BaselineTest
Type: Baseline Test
Baseline Name: Baseline_FSM_Testing_rev6_captured.mat
Baseline File: D:\Dati\Università\MAGISTRALE\SecondYear\Compliance Design\Project\Git\adaptive-cruise-control\Test\FSM_unit_test\Baseline_FSM_Testing_rev6_captured.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
✅ SoC:1	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✅ P_PID_:1	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✅ I_PID_:1	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✅ D_PID_:1	0	0	0	0	0	double		0.001	double		0.001	zoh	union	Link
✅ OutOfRange	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
✅ SoC:1	0	0	0	0	0	double		0.001	double		0.001	zoh	union
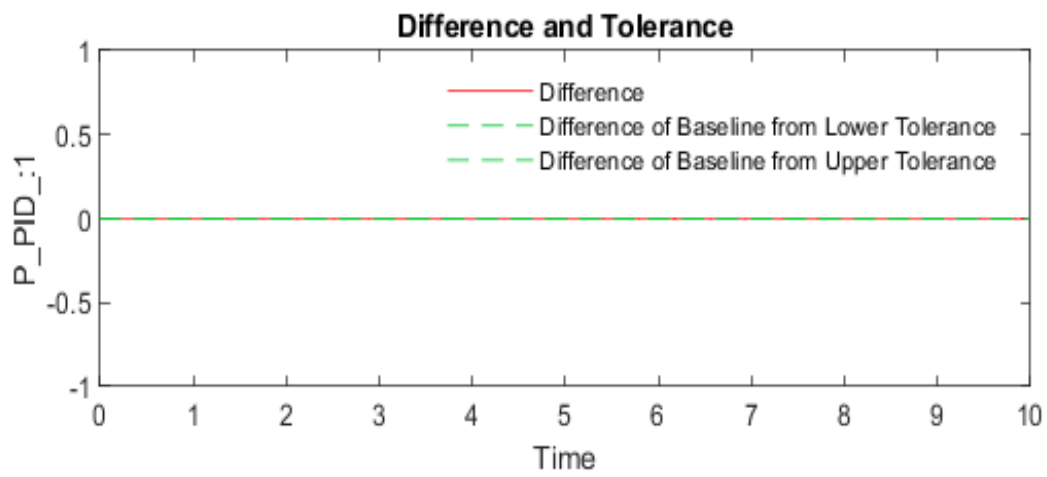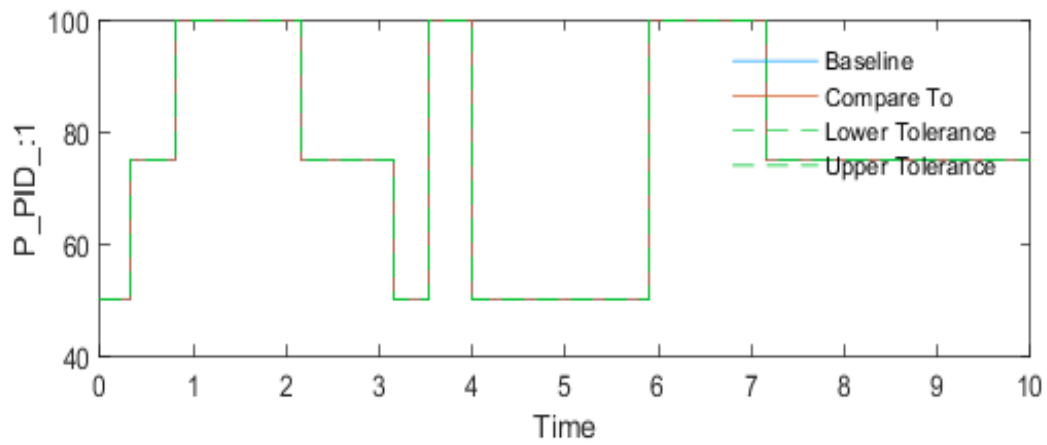
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✅ P_PID_:1	0	0	0	0	0	double		0.001	double		0.001	zoh	union

Difference and Tolerance

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
✅ I_PID_:1	0	0	0	0	0	double		0.001	double		0.001	zoh	union
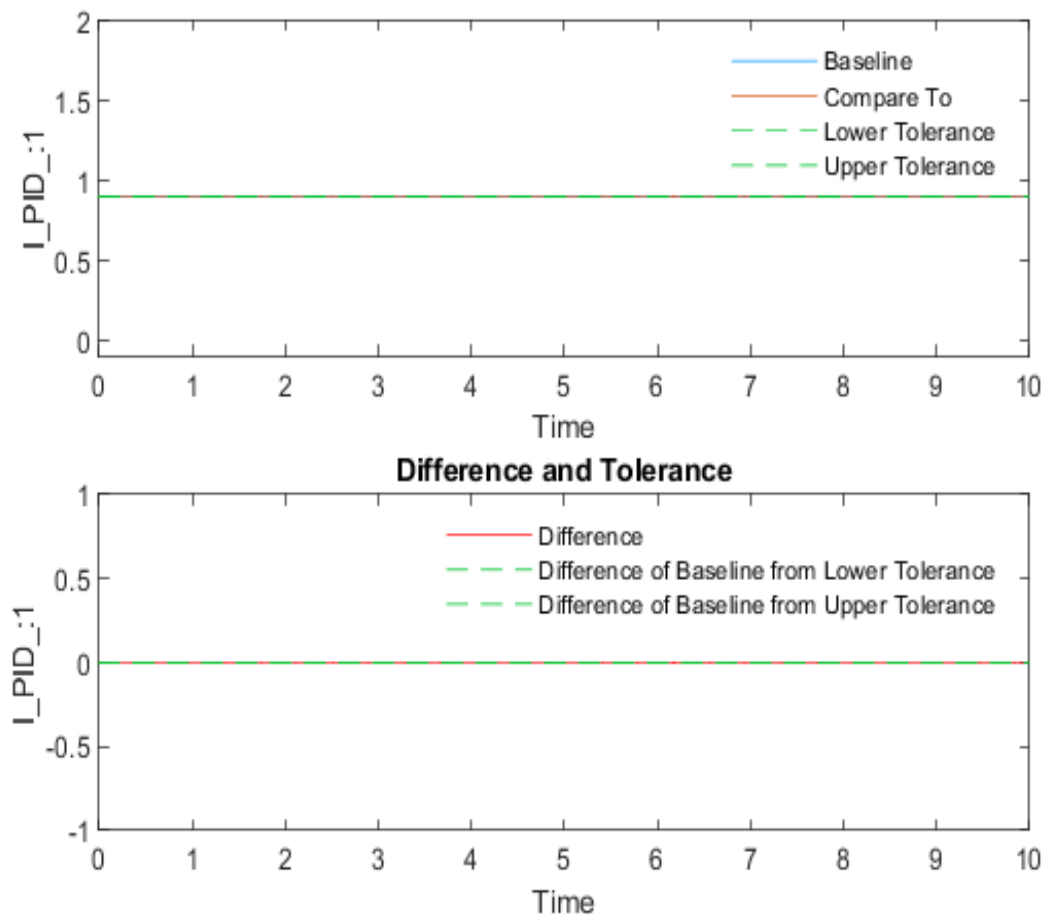
Difference and Tolerance

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
✅ D_PID_:1	0	0	0	0	0	double		0.001	double		0.001	zoh	union
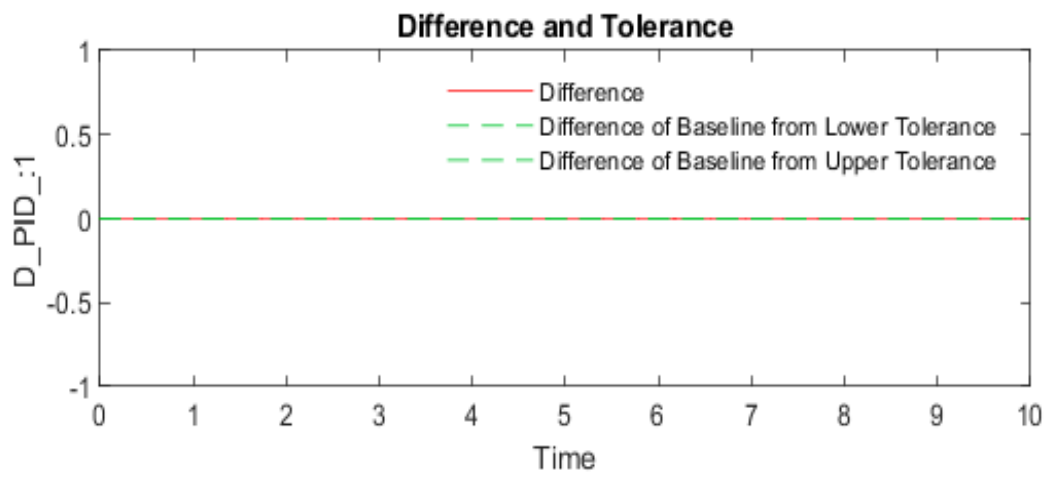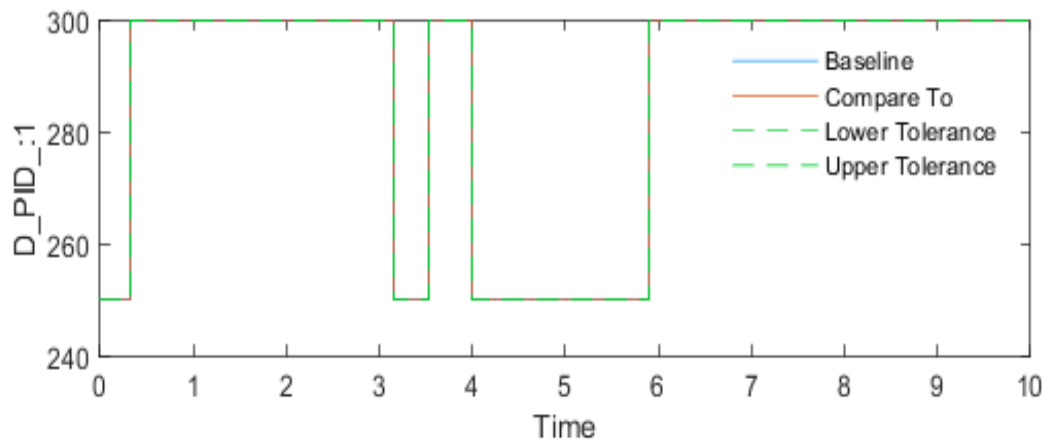
Difference and Tolerance

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
✅ OutOfRange	0	0	0	0	0	double		0.001	double		0.001	zoh	union
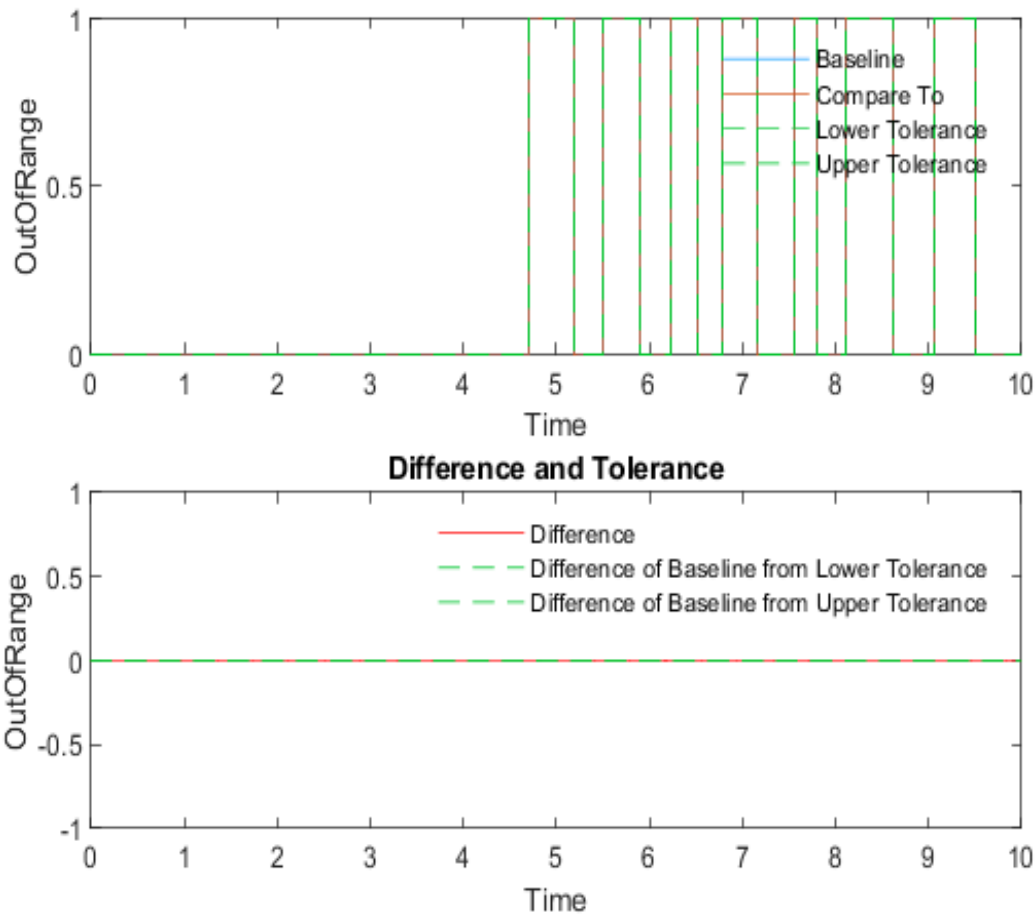
Difference and Tolerance

Baseline_FSM_Testing_rev6_captured.mat

**Baseline Information**

Baseline Name: Baseline_FSM_Testing_rev6_captured.mat
Baseline File: D:\Dati\Università\MAGISTRALE\SecondYear\Compliance Design\Project\Git\adaptive-cruise-control\Test\FSM_unit_test\Baseline_FSM_Testing_rev6_captured.mat
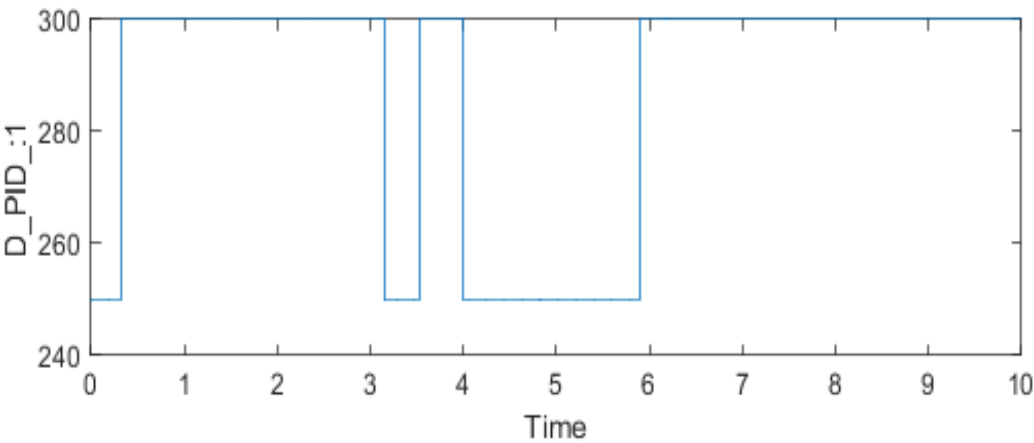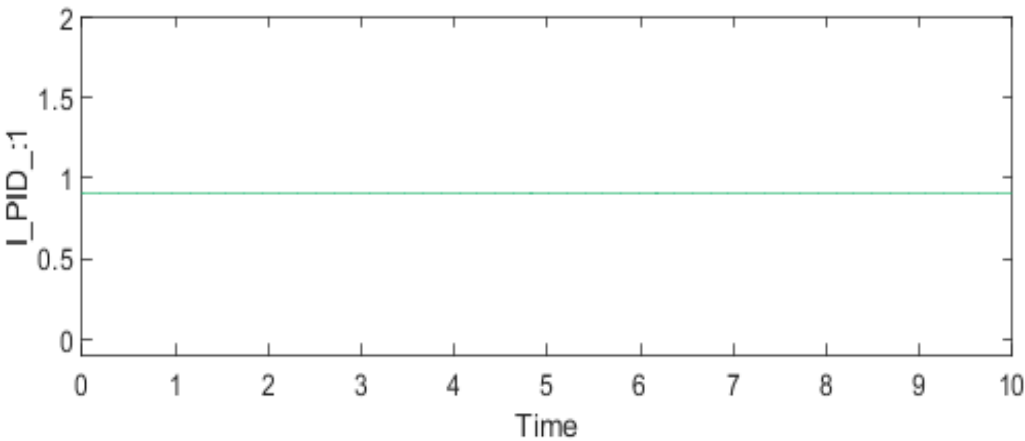
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
SoC:1	double		0.001	zoh	union	Link
P_PID_:1	double		0.001	zoh	union	Link
I_PID_:1	double		0.001	zoh	union	Link
D_PID_:1	double		0.001	zoh	union	Link
OutOfRange	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
SoC:1	double		0.001	zoh	union
P_PID_:1	double		0.001	zoh	union
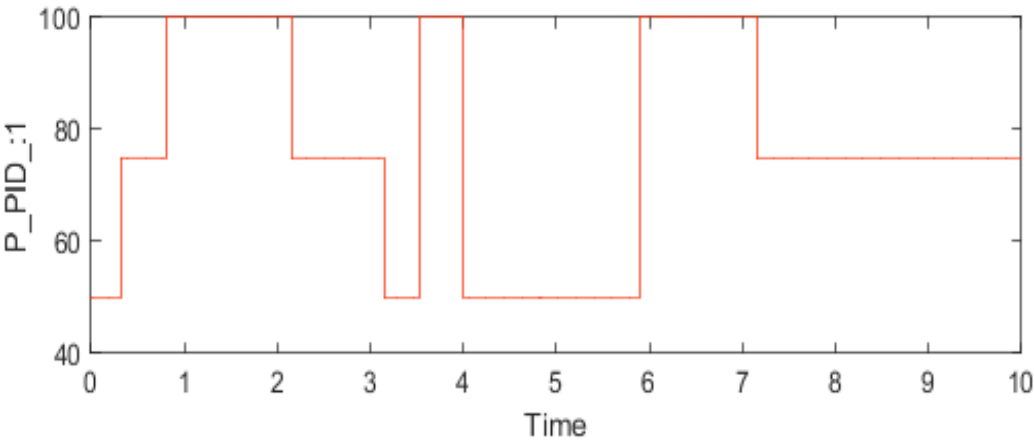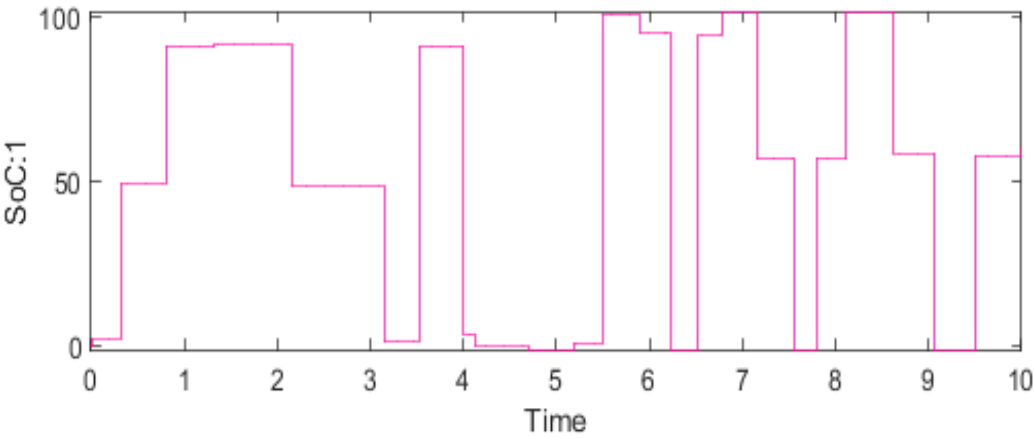
Name	Data Type	Units	Sample Time	Interp	Sync
I_PID_:1	double		0.001	zoh	union
D_PID_:1	double		0.001	zoh	union

Name	Data Type	Units	Sample Time	Interp	Sync
OutOfRange	double		0.001	zoh	union
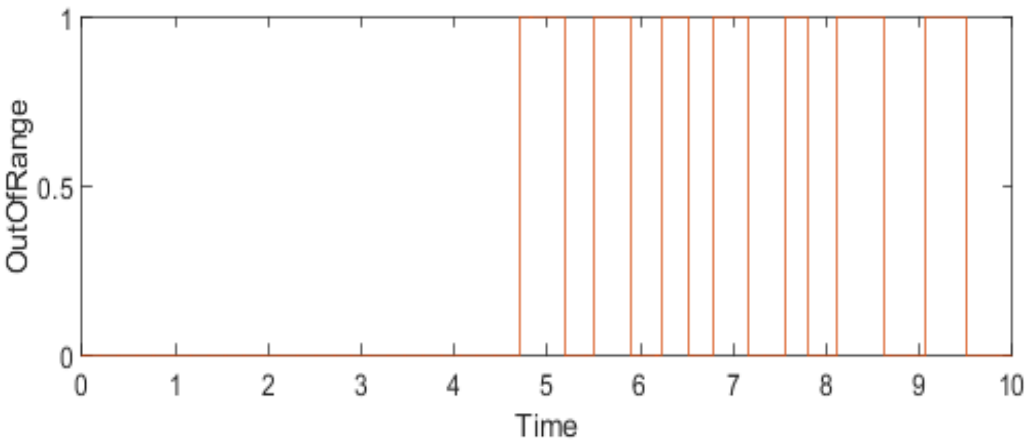
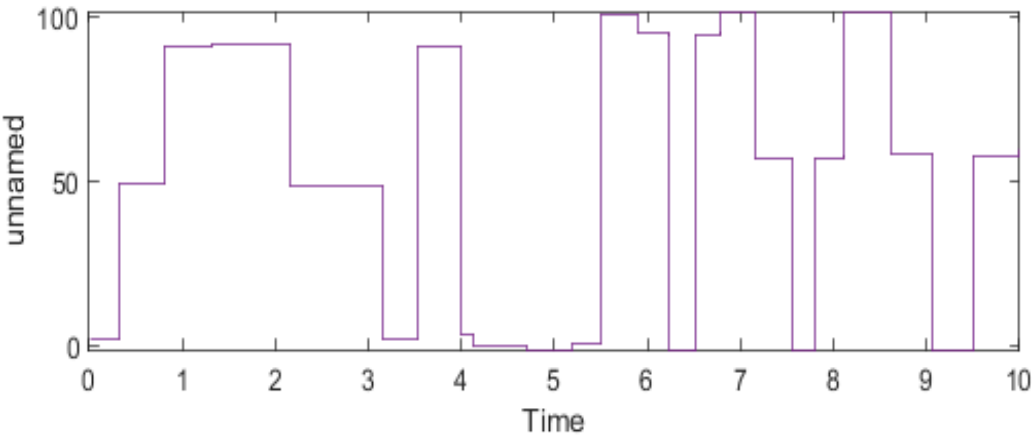## Input Data

Input Information

External Input Name: Test_chart_rev2.mat

External Input File: D:\Dati\Università\MAGISTRALE\SecondYear\Compliance Design\Project\Git\adaptive-cruise-control\Test\FSM_unit_test\Test_chart_rev2.mat

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
unnamed	double			zoh	union	[Link](#)

Name	Data Type	Units	Sample Time	Interp	Sync
unnamed	double			zoh	union

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Simulation

System Under Test Information

Model: Bozza_longitudinal_rev2_19b
Harness: Bozza_longitudinal_rev2_19b_Harness6

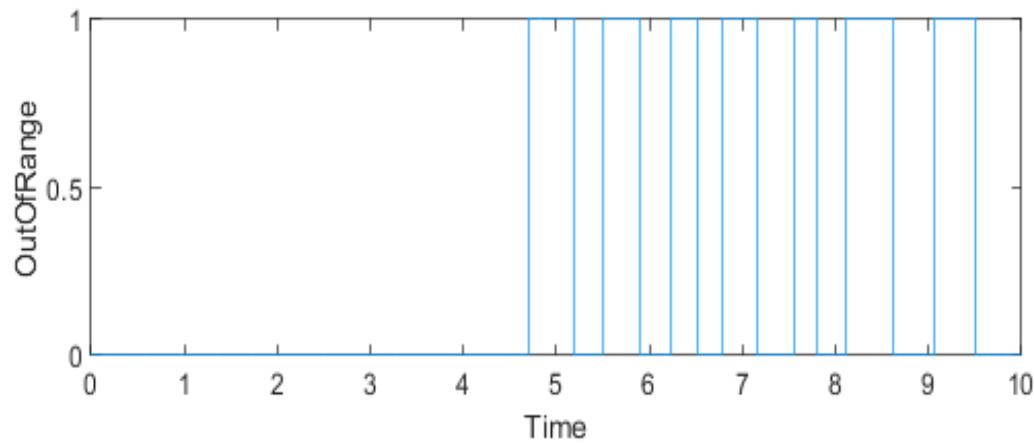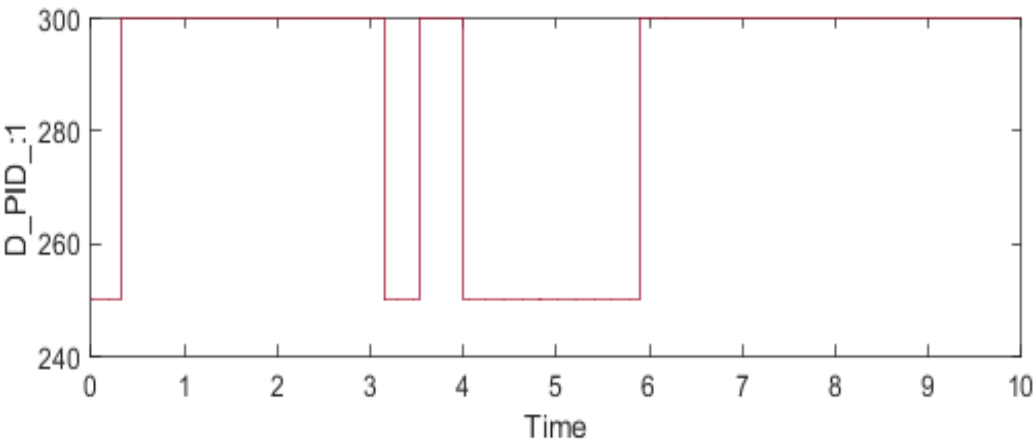| Harness Owner: | Bozza_longitudinal_rev2_19b/controller/Chart |
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
External Input Name:	Test_chart_rev2.mat
External Input File:	D:\Dati\Università\MAGISTRALE\SecondYear\Compliance Design\Project\Git\adaptive-cruise-control\Test\FSM_unit_test\Test_chart_rev2.mat
Start Time:	0
Stop Time:	10
Checksum:	4229402656 2431366803 1744661757 603632271
Simulink Version:	10.0
Model Version:	1.24
Model Author:	Leo
Date:	Fri Apr 16 22:11:58 2021
User ID:	Leo
Model Path:	D:\Dati\Università\MAGISTRALE\SecondYear\Compliance Design\Project\Git\adaptive-cruise-control\Model\Bozza_longitudinal_rev2_19b.slx
Machine Name:	PC-LEO
Solver Name:	FixedStepDiscrete
Solver Type:	Fixed-Step
Fixed Step Size:	0.001
Simulation Start Time:	2021-04-16 22:13:02
Simulation Stop Time:	2021-04-16 22:13:04
Platform:	PCWIN64

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
P_PID_:1	double		0.001	zoh	union	Link
I_PID_:1	double		0.001	zoh	union	Link
D_PID_:1	double		0.001	zoh	union	Link
OutOfRange	double		0.001	zoh	union	Link
SoC:1	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
P_PID_:1	double		0.001	zoh	union
I_PID_:1	double		0.001	zoh	union
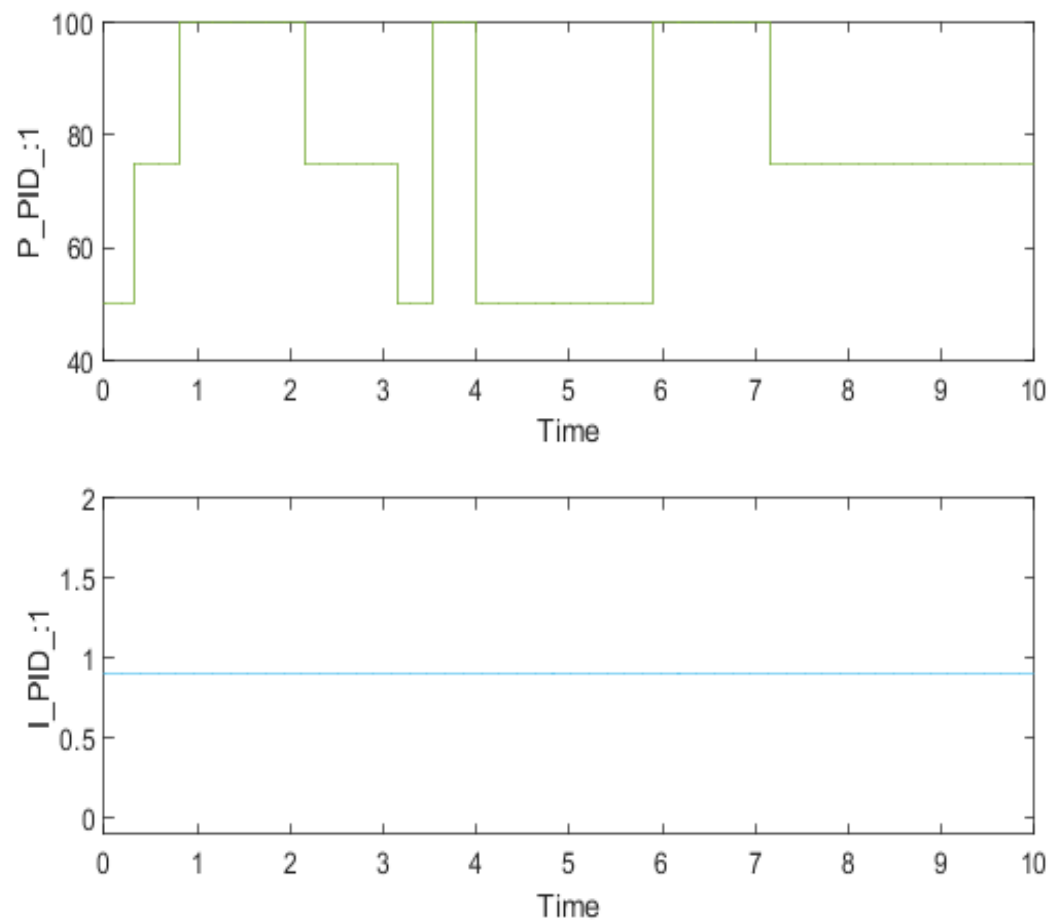
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Name	Data Type	Units	Sample Time	Interp	Sync
D_PID_:1	double		0.001	zoh	union
OutOfRange	double		0.001	zoh	union

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Name	Data Type	Units	Sample Time	Interp	Sync
SoC:1	double		0.001	zoh	union