# **Report Generated by Test Manager**

Title: TCF\_MotorModeJdg MIL Test Repo

rt

**Author:** 

Date: 20-Dec-2021 15:32:42

# **Test Environment**

Platform: PCWIN64 MATLAB: (R2020a)

# Summary

Summary		
Name	Outcome	Duration (Seconds)
<u>MotorModeJdg</u>	142	87.127
EI09_SWUT_MIL_MotorModeJdg_01	•	4.106
EI09_SWUT_MIL_MotorModeJdg_02	•	4.428
EI09_SWUT_MIL_MotorModeJdg_03	•	4.574
EI09_SWUT_MIL_MotorModeJdg_04	•	4.73
■ EI09_SWUT_MIL_MotorModeJdg_05	•	4.378
<b>■</b> <u>EI09_SWUT_MIL_MotorModeJdg_06</u>	•	4.443
<b>■</b> <u>EI09_SWUT_MIL_MotorModeJdg_07</u>	•	4.482
■ <u>EI09_SWUT_MIL_MotorModeJdg_08</u>	•	4.329
■ <u>EI09_SWUT_MIL_MotorModeJdg_09</u>	<b>Ø</b>	4.475
<u>EI09_SWUT_MIL_MotorModeJdg_10</u>	•	4.599
■ EI09_SWUT_MIL_MotorModeJdg_11	<b>Ø</b>	4.453
■ EI09_SWUT_MIL_MotorModeJdg_12	<b>Ø</b>	5.032
■ EI09_SWUT_MIL_MotorModeJdg_13	<b>⊘</b>	4.939
■ EI09_SWUT_MIL_MotorModeJdg_14	<b>⊘</b>	4.713

# MotorModeJdg

### **Test Result Information**

Result Type: Test Suite Result

Parent: None

Start Time: 2021-12-20 15:30:19 End Time: 2021-12-20 15:31:46 Outcome: Total: 14, Passed: 14

### **Test Suite Information**

Name: MotorModeJdg

**Back to Report Summary** 

# EI09\_SWUT\_MIL\_MotorModeJdg\_01

### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:30:19
End Time: 2021-12-20 15:30:23

Outcome: Passed

### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeJdg\_01

Type: Baseline Test

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_01

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

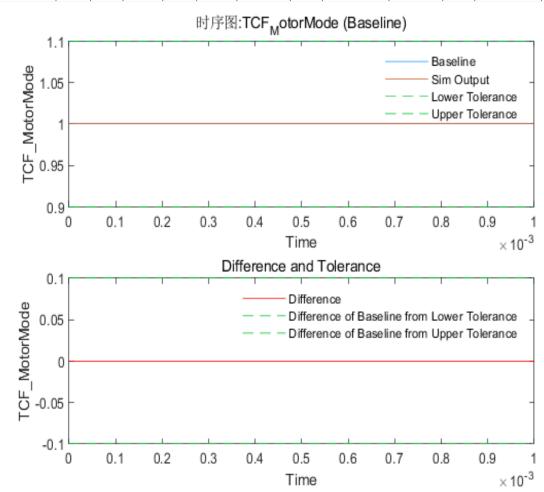
tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase\_TCF.xlsx

### **Baseline Comparison**

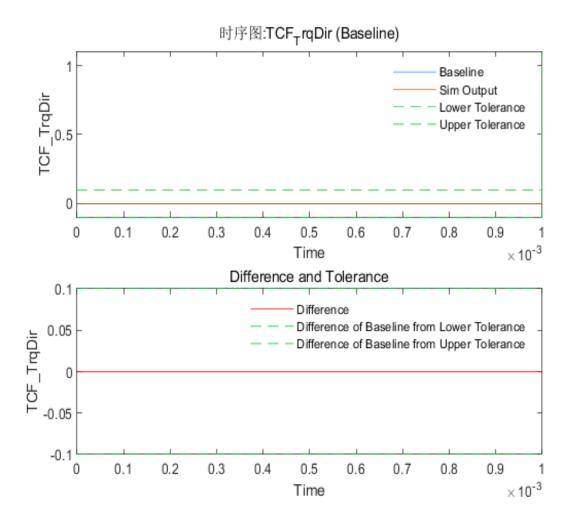
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Interp	Svnc	Link
	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2			to Plot
TCF_Moto rMode	   0.1 				0	uint8						zoh	union 	<u>Link</u>
TCF_TrqD ir	0.1	0	0 	0	0	uint8						zoh	union 	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh	union	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1		•	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto										$\Gamma - T$		
rMode	0.1 	0	<b>0</b> 	0 	0	uint8	 		uint8 	 		zoh  union 



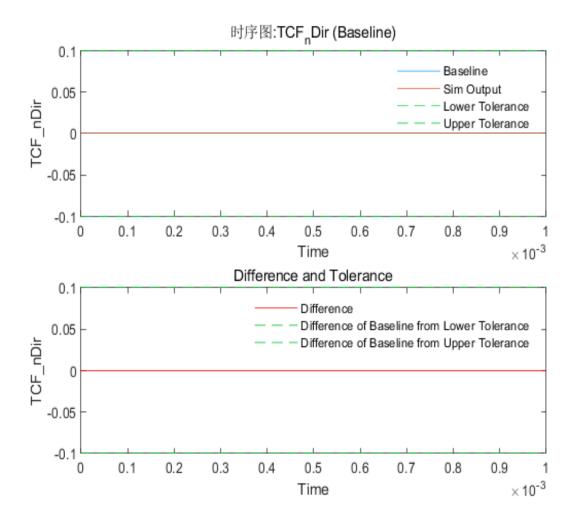
# Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	•	Data T ype 2	•	Interp Sync
TCF_TrqD	   0.1 		0 		0	uint8		   uint8 		zoh  union



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T		•	Data T vpe 2	Units 2	Sample Time 2	Interp	Sync
						) F			) F				
TCF_nDir	0.1	0	0	0	0	uint8	 		uint8	 		zoh	union



# Back to Report SummaryBack to Criteria Results

# $EI09\_SWUT\_MIL\_MotorModeJdg\_01$

### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_01

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

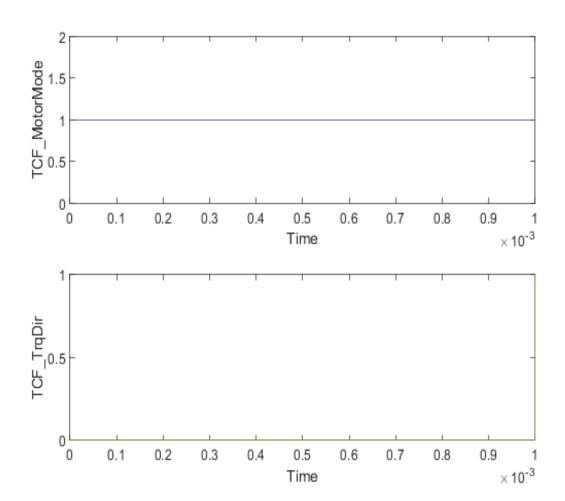
 $tform\_Models \verb|\01\_Platformmodels\\| FS\\| TCF\\| TCF\_V2$ 

\TestCase\_TCF.xlsx

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>

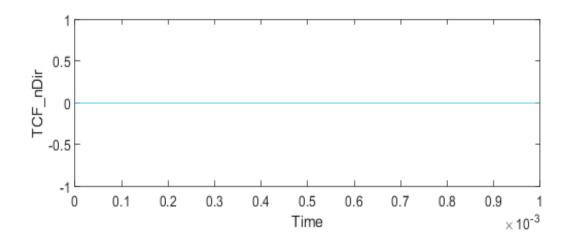


Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8	<del></del> _		zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



# Back to Report SummaryBack to Signal Summary

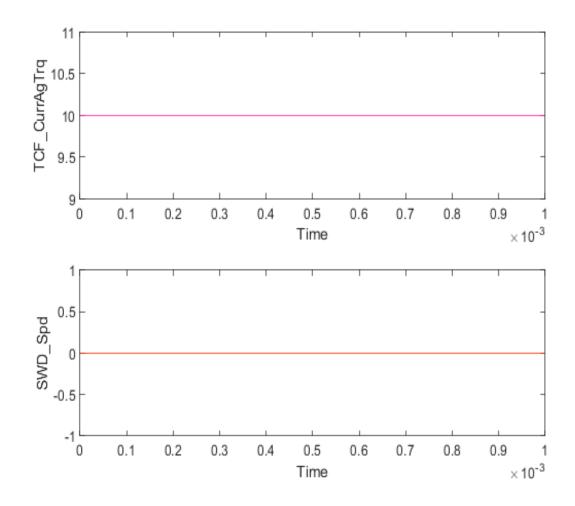
# **Input Data**

## **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_01 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single			zoh	union	<u>Link</u>
SWD_Spd	single			zoh	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single			zoh	union
SWD_Spd	single			zoh	union



Back to Report SummaryBack to Signal Summary

### **Simulation**

### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_01

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.001

Checksum: 2508796405 842606530 2825826339 503826758

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

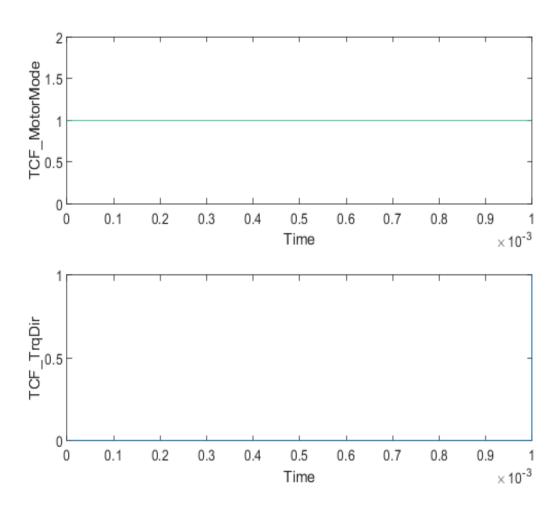
Simulation Start Time: 2021-12-20 15:30:19 Simulation Stop Time: 2021-12-20 15:30:21

Platform: PCWIN64

# **Simulation Output**

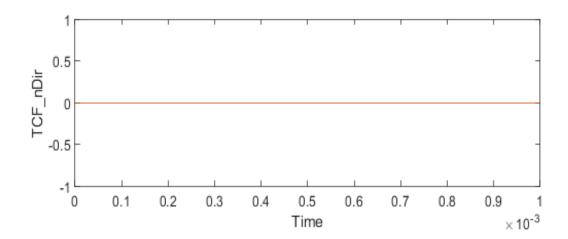
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8	г – <b>– – –</b> I		zoh	union	<u>Link</u>

TCF_nDir	uint8		zo	h union	<u>Link</u>
Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8	†	 	zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



# Back to Report SummaryBack to Signal Summary

# Simulation Logs:

Simulation stopped at '0.001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

### **Back to Report Summary**

# $EI09\_SWUT\_MIL\_MotorModeJdg\_02$

#### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:30:25
End Time: 2021-12-20 15:30:29

Outcome: Passed

#### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeIdg\_02

Type: Baseline Name: **Baseline Test** 

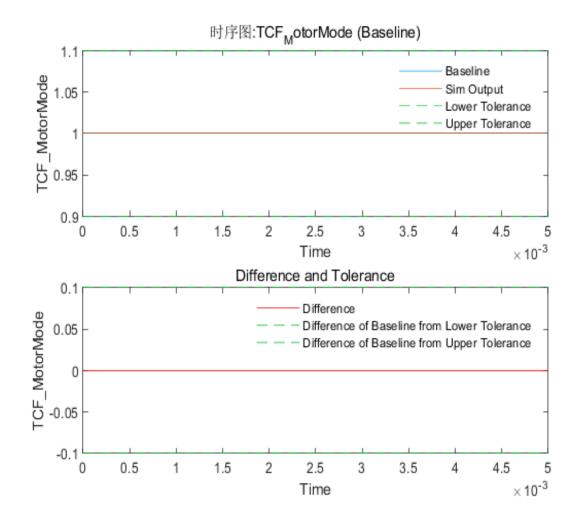
 $EI09\_SWUT\_MIL\_MotorModeJdg\_02\\ E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla\\ tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2\\$ Baseline File:

\TestCase\_TCF.xlsx

# **Baseline Comparison**

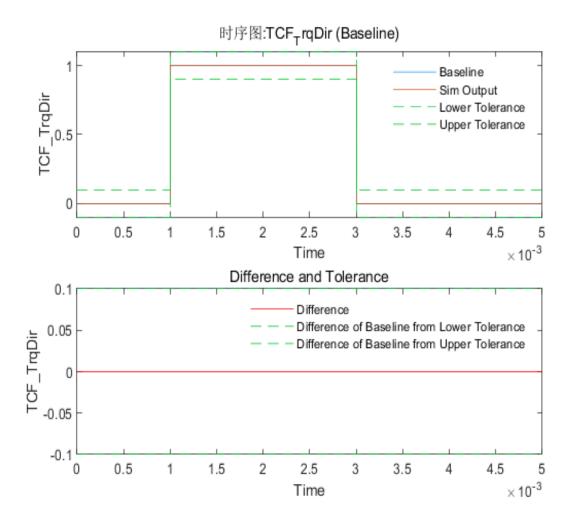
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Intonn	Cyma	Link
Name	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2	Interp	Sync	to Plot
TCF_Moto rMode	   0.1 			0	0	uint8			uint8			zoh	union	<u>Link</u>
TCF_TrqD ir	   0.1 	   0 	0 	0	0	uint8			uint8			   zoh 	union	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh	union	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto rMode	0.1		0 	0 	0	uint8			uint8			zoh union



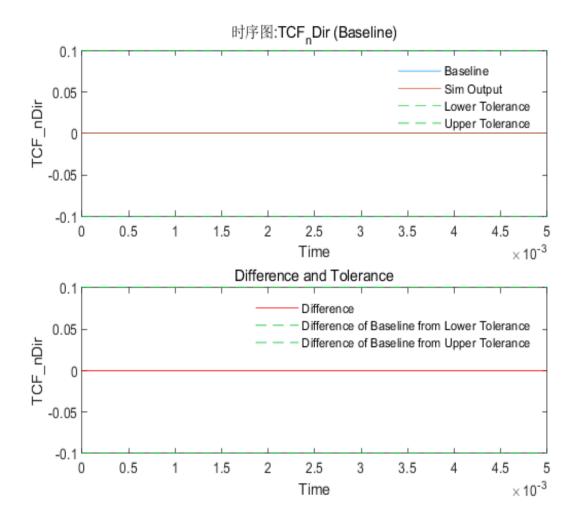
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol		Lag Tol	Max Diff	Data T ype 1		Sample Time 1	Data T ype 2		Sample Time 2	Interp Sync
TCF_TrqD		Γ	$\Box = \Box$				$\Gamma - \Gamma$			$\Gamma - T$		$\top$
101_1142	0.1	0	0	0	0	uint8			uint8			zoh  union
ir									l			



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	•	Data T ype 2	Units 2	Sample Time 2	Interp Sync	
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh union	



# Back to Report SummaryBack to Criteria Results

## EI09\_SWUT\_MIL\_MotorModeJdg\_02

### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_02

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

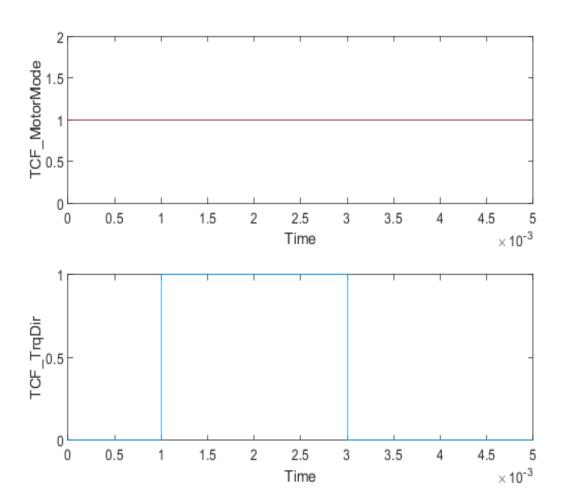
tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\TestCase\_TCF.xlsx

Name	Data Type	Units Sample Time	Sample Time	Interp	Sync	Link
						to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>

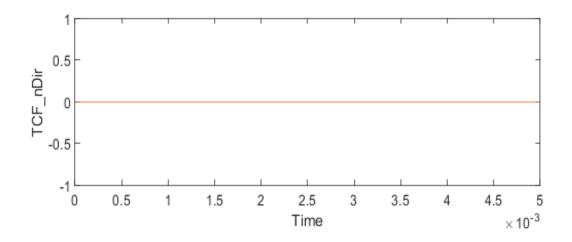


Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



# Back to Report SummaryBack to Signal Summary

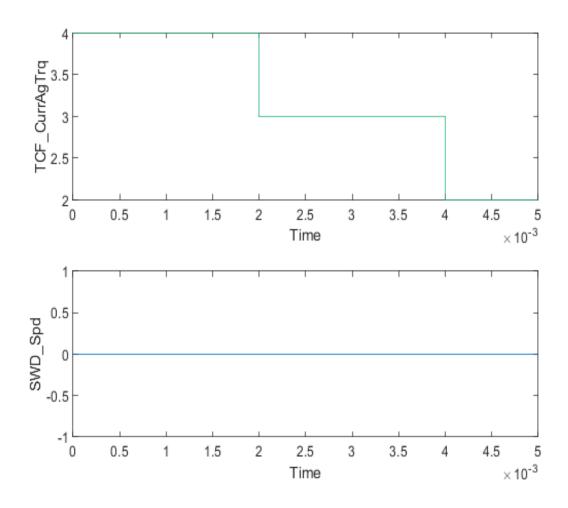
# **Input Data**

# **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_02 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	 	 	zoh	union	<u>Link</u>
SWD_Spd	single			zoh	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single			zoh	union
SWD_Spd	single			zoh	union



Back to Report SummaryBack to Signal Summary

### **Simulation**

### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_02

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.0050000000000000001

Checksum: 2870125649 2975986283 1460307741 2219639252

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

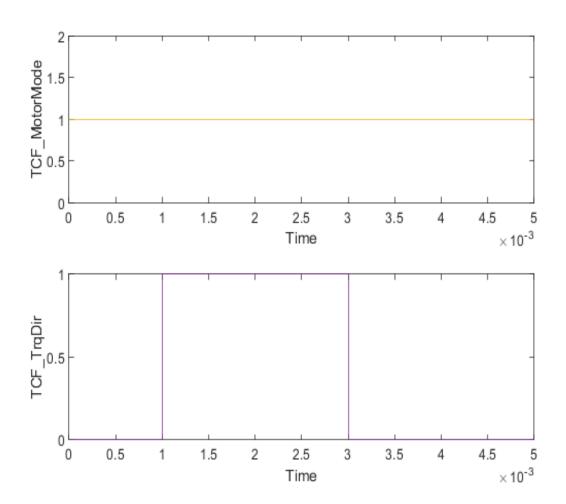
Simulation Start Time: 2021-12-20 15:30:25 Simulation Stop Time: 2021-12-20 15:30:27

Platform: PCWIN64

### **Simulation Output**

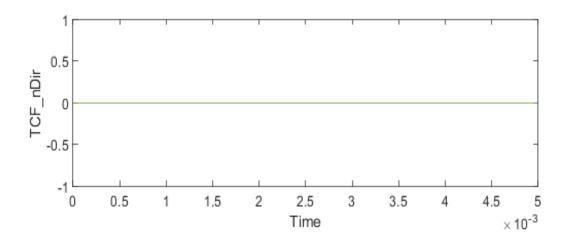
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8			zoh	union	<u>Link</u>

TCF_nDir	uint8		zo	h union	<u>Link</u>
	1			1	
Name Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8	<u> </u> 	 L	zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



# Back to Report SummaryBack to Signal Summary

# Simulation Logs:

Simulation stopped at '0.00500000000000001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

### **Back to Report Summary**

# EI09\_SWUT\_MIL\_MotorModeJdg\_03

#### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:30:31
End Time: 2021-12-20 15:30:36

Outcome: Passed

#### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeIdg\_03

**Baseline Test** 

Type: Baseline Name:

EI09\_SWUT\_MIL\_MotorModeJdg\_03 E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla Baseline File:

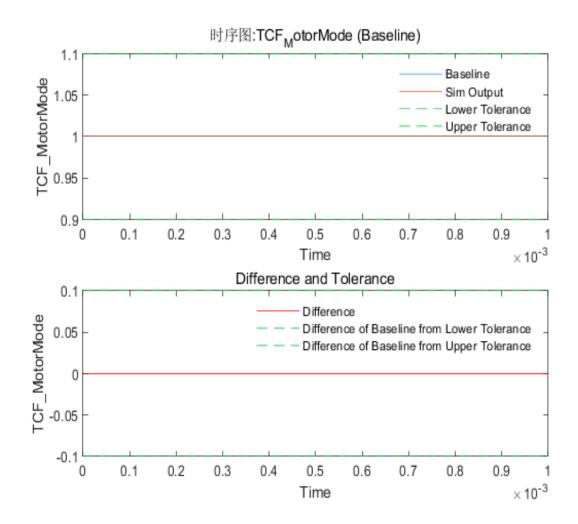
 $tform\_Models \\ \label{local_platform} In the local l$ 

\TestCase\_TCF.xlsx

### **Baseline Comparison**

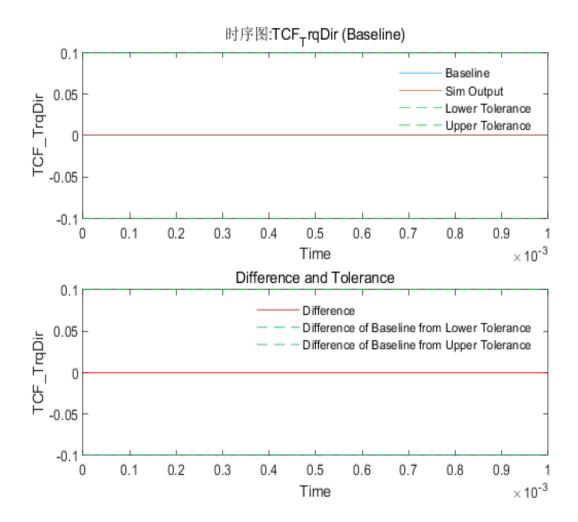
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Interp	Syme	Link
Name	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2	inter p	Sync	to Plot
TCF_Moto rMode	0.1	   0 			0	uint8						   zoh	union   	<u>Link</u>
TCF_TrqD	0.1	   0 	0 	0	0	uint8			uint8			   zoh 	union 	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh	union	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto										Τ-Τ		
rMode	0.1 	0 	0 	0 	0 	uint8			uint8 	 		zoh  union 



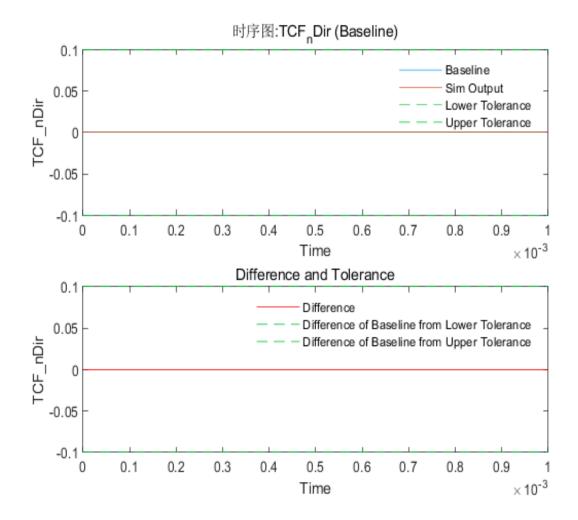
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol		Lag Tol	Max Diff	Data T ype 1		Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_TrqD							$\Box$			$\Box$		
	0.1	0	0	0	0	uint8			uint8			zoh  union
ir												



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	•	Data T ype 2	Units 2	Sample Time 2	Interp Sync	
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh union	



## Back to Report SummaryBack to Criteria Results

## $EI09\_SWUT\_MIL\_MotorModeJdg\_03$

#### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_03

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

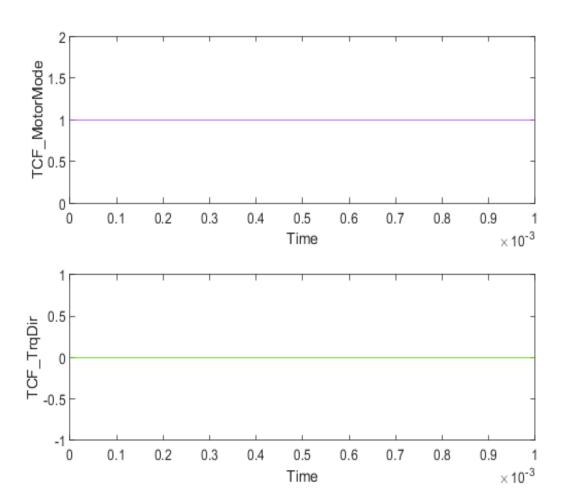
tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\TestCase\_TCF.xlsx

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>

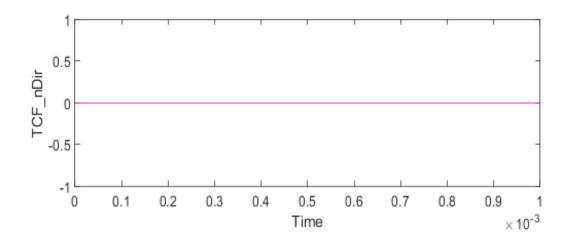


Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



## Back to Report SummaryBack to Signal Summary

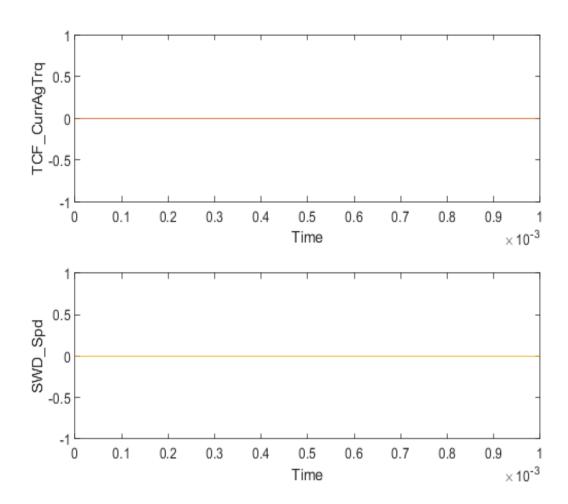
# **Input Data**

### **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_03 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	 	 	zoh	union	<u>Link</u>
SWD_Spd	single			zoh	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single			zoh	union
SWD_Spd	single			zoh	union



Back to Report SummaryBack to Signal Summary

#### Simulation

#### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_03

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.001

Checksum: 2508796405 842606530 2825826339 503826758

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

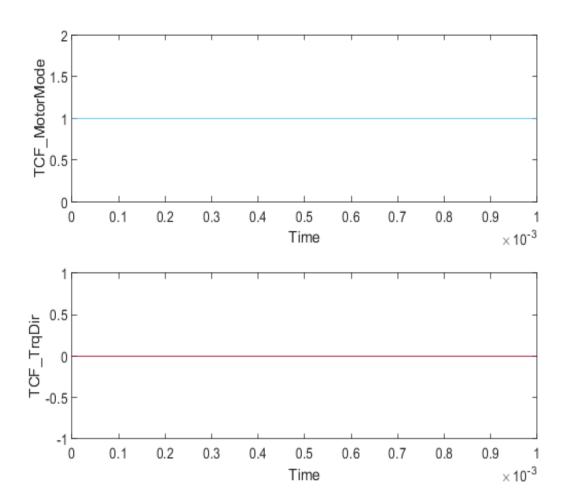
Simulation Start Time: 2021-12-20 15:30:31 Simulation Stop Time: 2021-12-20 15:30:33

Platform: PCWIN64

#### **Simulation Output**

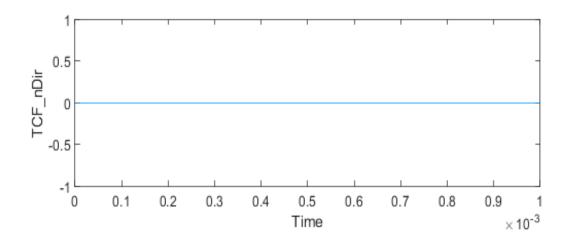
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8			zoh	union	<u>Link</u>

TCF_nDir	uint8		zo	h union	<u>Link</u>
Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir		 	 	zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



### Back to Report SummaryBack to Signal Summary

# Simulation Logs:

Simulation stopped at '0.001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

#### **Back to Report Summary**

# EI09\_SWUT\_MIL\_MotorModeJdg\_04

#### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:30:38
End Time: 2021-12-20 15:30:42

Outcome: Passed

#### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeIdg\_04

Type: Baseline Name: **Baseline Test** 

EI09\_SWUT\_MIL\_MotorModeJdg\_04 E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla Baseline File:

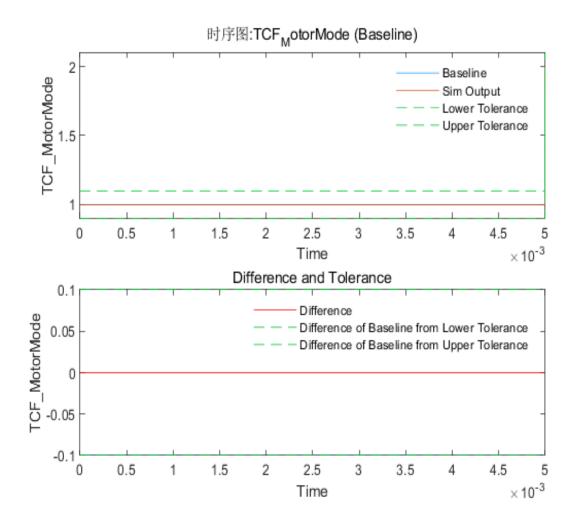
 $tform\_Models \\ \label{local_platform} In the local l$ 

\TestCase\_TCF.xlsx

### **Baseline Comparison**

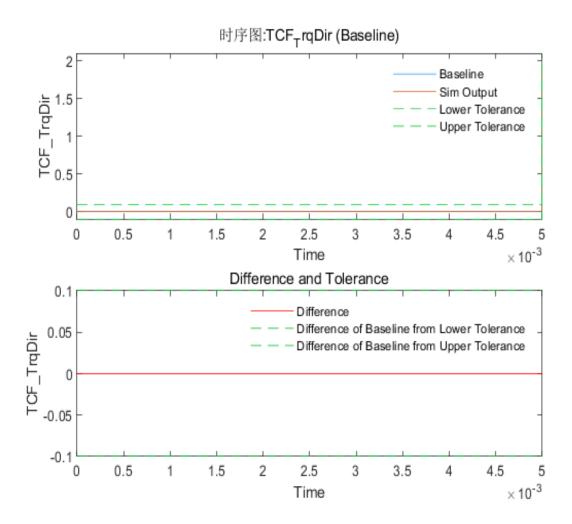
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Intonn	Cyma	Link
Name	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2	Interp	Sync	to Plot
TCF_Moto rMode	   0.1 			0	0	uint8			uint8			zoh	union	<u>Link</u>
TCF_TrqD ir	   0.1 	   0 	0 	0	0	uint8			uint8			   zoh 	union	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh	union	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto												
rMode	0.1 	0 	0 	0 	0 	uint8			uint8 	 		zoh  union 



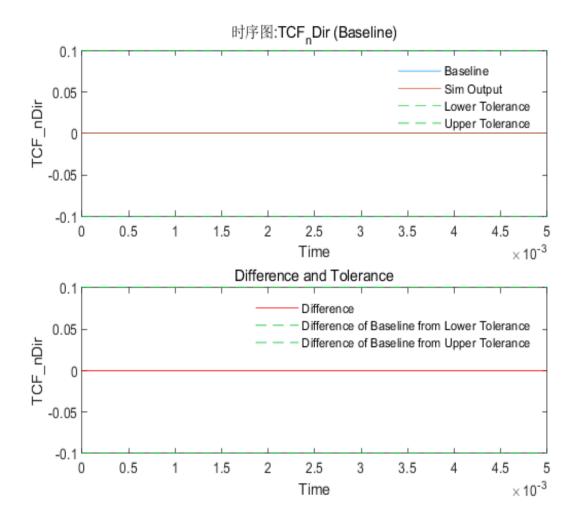
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol		Lag Tol	Max Diff	Data T ype 1		Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_TrqD							$\Box$			$\Box$		
	0.1	0	0	0	0	uint8			uint8			zoh  union
ir												



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh union



## Back to Report SummaryBack to Criteria Results

### EI09\_SWUT\_MIL\_MotorModeJdg\_04

#### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_04

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

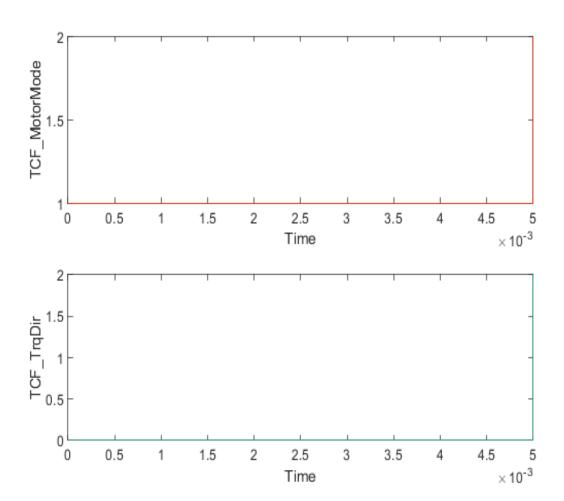
 $tform\_Models \verb|\01\_Platformmodels\\| FS\\| TCF\\| TCF\_V2$ 

\TestCase\_TCF.xlsx

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>

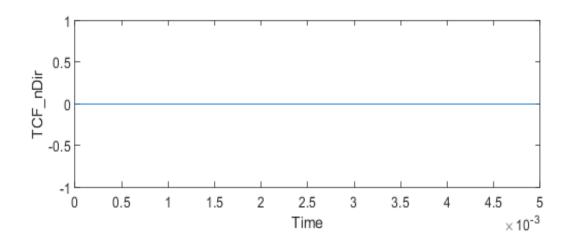


Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



## Back to Report SummaryBack to Signal Summary

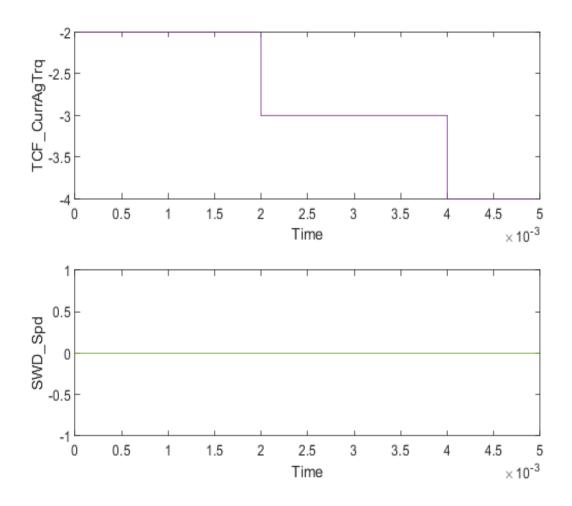
# **Input Data**

### **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_04 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	l L	 	zoh	union	<u>Link</u>
SWD_Spd	single	 		zoh	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single			zoh	union
SWD_Spd	single			zoh	union



Back to Report SummaryBack to Signal Summary

#### Simulation

#### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_04

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\TestCase\_TCF.xlsx

Start Time: 0

Stop Time: 0.0050000000000000001

Checksum: 2870125649 2975986283 1460307741 2219639252

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

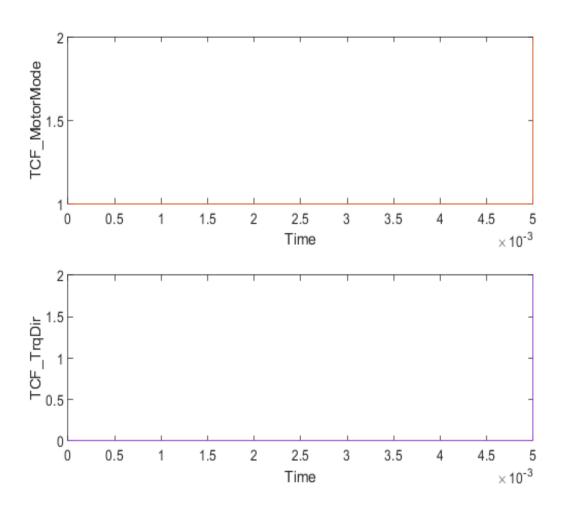
Simulation Start Time: 2021-12-20 15:30:38 Simulation Stop Time: 2021-12-20 15:30:40

Platform: PCWIN64

#### **Simulation Output**

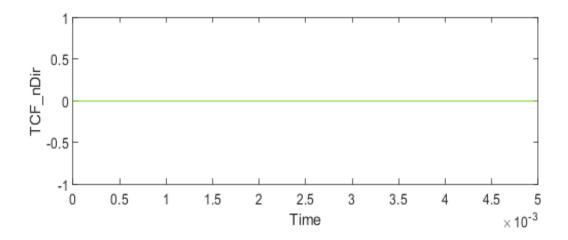
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8			zoh	union	<u>Link</u>

TCF_nDir	uint8		z	oh unio	n Link
Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



# Back to Report SummaryBack to Signal Summary

#### Simulation Logs:

Simulation stopped at '0.00500000000000001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

#### **Back to Report Summary**

# EI09\_SWUT\_MIL\_MotorModeJdg\_05

#### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:30:44
End Time: 2021-12-20 15:30:49

Outcome: Passed

#### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeJdg\_05

Type: Baseline Name: **Baseline Test** 

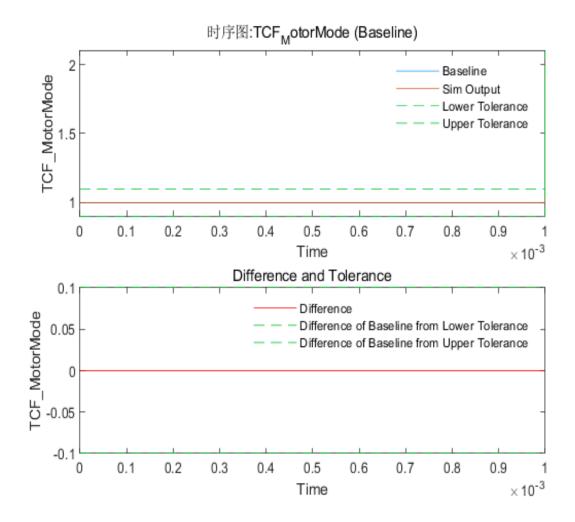
 $EI09\_SWUT\_MIL\_MotorModeJdg\_05\\ E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla\\ tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2\\$ Baseline File:

\TestCase\_TCF.xlsx

### **Baseline Comparison**

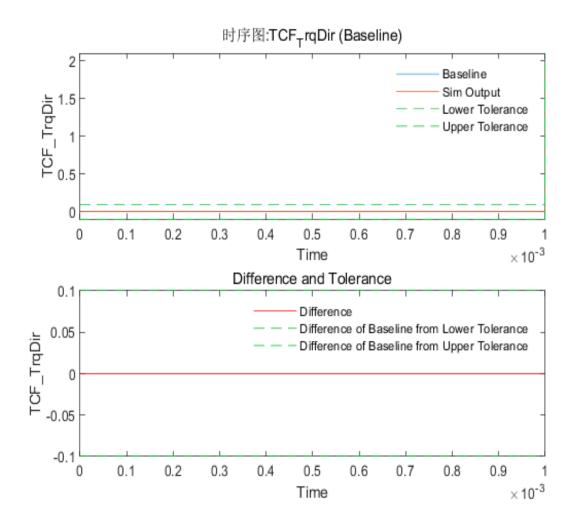
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Interp	Syme	Link
	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2	inter p	Sync	to Plot
TCF_Moto rMode	   0.1 				0	uint8						zoh	union   	<u>Link</u>
TCF_TrqD	0.1	0		0	0	uint8						zoh	union 	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh	union	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto												
rMode	0.1 	0 	0 	0 	0 	uint8			uint8 	 		zoh  union 



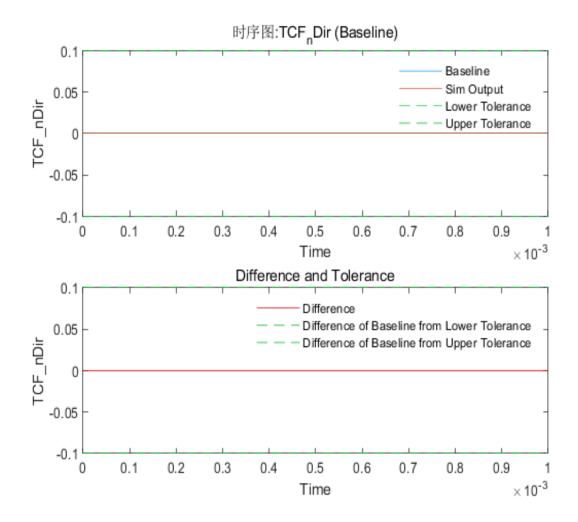
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol		Lag Tol	Max Diff	Data T ype 1		Sample Time 1	Data T ype 2		Sample Time 2	Interp Sync
TCF_TrqD		Γ					$\Gamma - \Gamma$			$\Gamma - T$		$\top$
101_1142	0.1	0	0	0	0	uint8			uint8			zoh  union
ir							1 1					



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	•	Data T ype 2	Units 2	Sample Time 2	Interp	Sync
TCF_nDir	0.1	0	0	0	0	uint8		uint8			zoh	union



## Back to Report SummaryBack to Criteria Results

## $EI09\_SWUT\_MIL\_MotorModeJdg\_05$

#### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_05

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

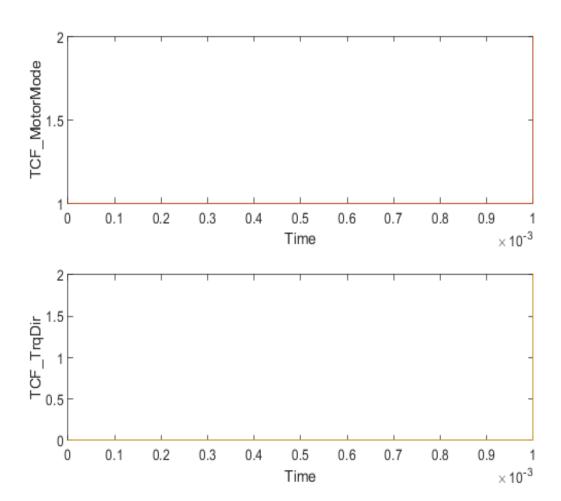
tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\TestCase\_TCF.xlsx

Name	Data Type	Units Sample Time		Interp	Sync	Link	
	Data Type		Sample Time	Inter p	Sylic	to Plot	
TCF_MotorMode	uint8			zoh	union	<u>Link</u>	

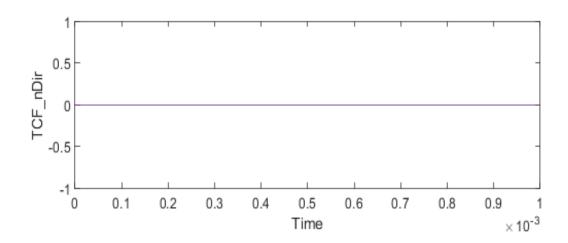


Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



## Back to Report SummaryBack to Signal Summary

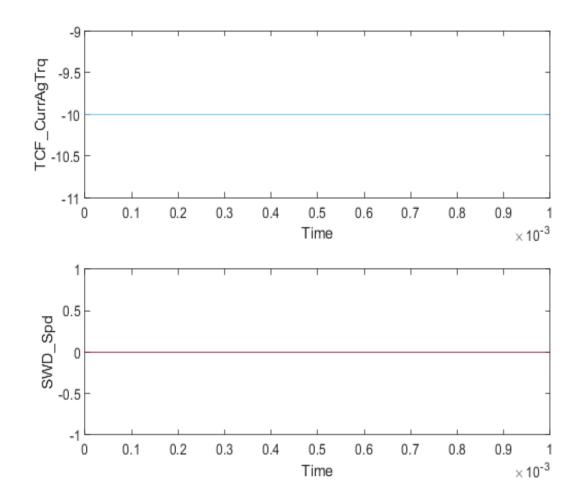
### **Input Data**

#### **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_05 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	 	 	zoh	union	<u>Link</u>
SWD_Spd	single			zoh	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single			zoh	union
SWD_Spd	single			zoh	union



Back to Report SummaryBack to Signal Summary

#### **Simulation**

#### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_05

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.001

Checksum: 2508796405 842606530 2825826339 503826758

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

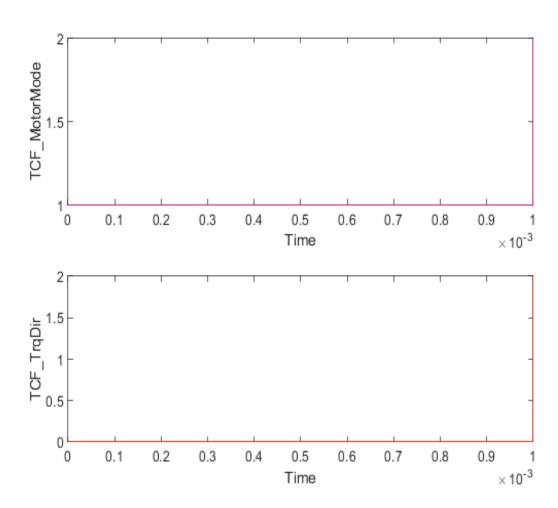
Simulation Start Time: 2021-12-20 15:30:44 Simulation Stop Time: 2021-12-20 15:30:46

Platform: PCWIN64

#### **Simulation Output**

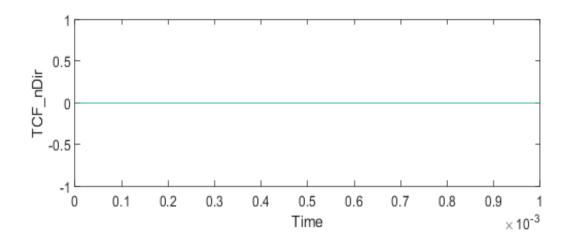
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8	г – <b>– – –</b> I		zoh	union	<u>Link</u>

TCF_nDir	uint8			zoh	union	<u>Link</u>
Name	Data Type	Units	Sample Time	Ir	nterp	Sync
TCF_MotorMode	uint8				zoh	union
TCF_TrqDir	uint8				zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



### Back to Report SummaryBack to Signal Summary

# Simulation Logs:

Simulation stopped at '0.001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

#### **Back to Report Summary**

# EI09\_SWUT\_MIL\_MotorModeJdg\_06

#### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:30:50
End Time: 2021-12-20 15:30:55

Outcome: Passed

#### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeIdg\_06

Type: Baseline Name: **Baseline Test** 

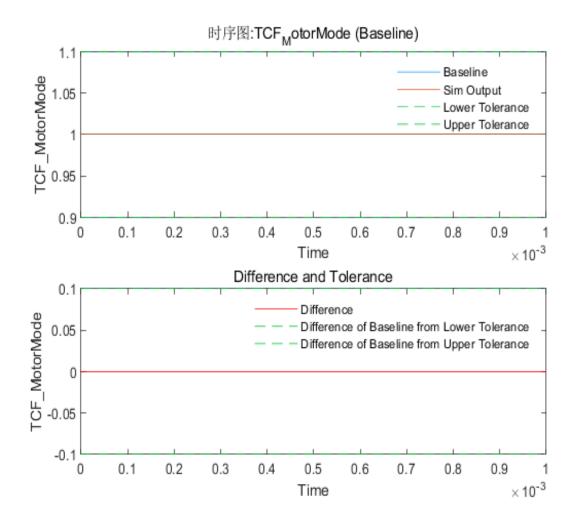
 $EI09\_SWUT\_MIL\_MotorModeJdg\_06\\ E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla\\ tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2\\$ Baseline File:

\TestCase\_TCF.xlsx

### **Baseline Comparison**

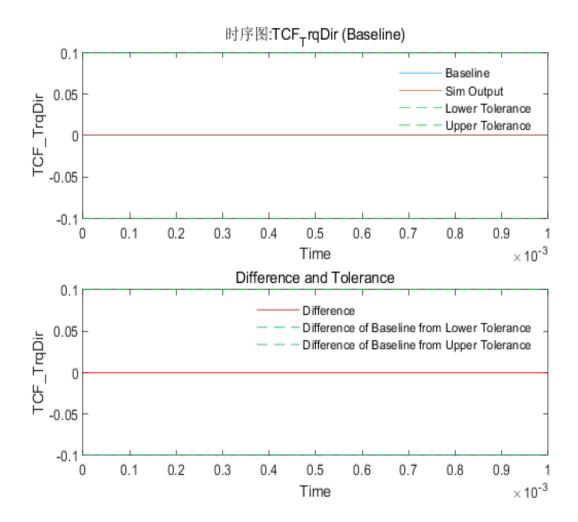
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Intonn	Cyma	Link
Name	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2	Interp	Sync	to Plot
TCF_Moto rMode	   0.1 			0	0	uint8			uint8			zoh	union	<u>Link</u>
TCF_TrqD ir	   0.1 	   0 	0 	0	0	uint8			uint8			   zoh 	union	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh	union	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto										Τ-Τ		
rMode	0.1 	0 	0 	0 	0 	uint8			uint8 	 		zoh  union 



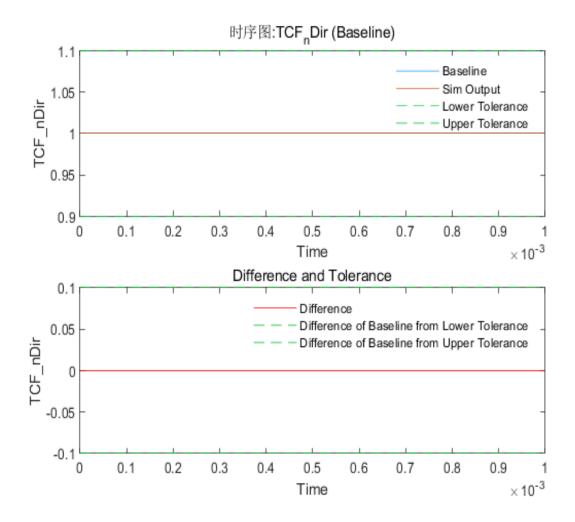
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol			Max Diff			Sample Time 1			•	Interp Sync
TCF TraD							$\sqcap \lnot \lnot$			$\Box$		
TCF_TrqD	0.1	0	0	0	0	uint8			uint8			zoh  union
ir							1 1					



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	•	Data T ype 2	Units 2	Sample Time 2	Interp Sync	
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh union	



## Back to Report SummaryBack to Criteria Results

## $EI09\_SWUT\_MIL\_MotorModeJdg\_06$

#### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_06

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

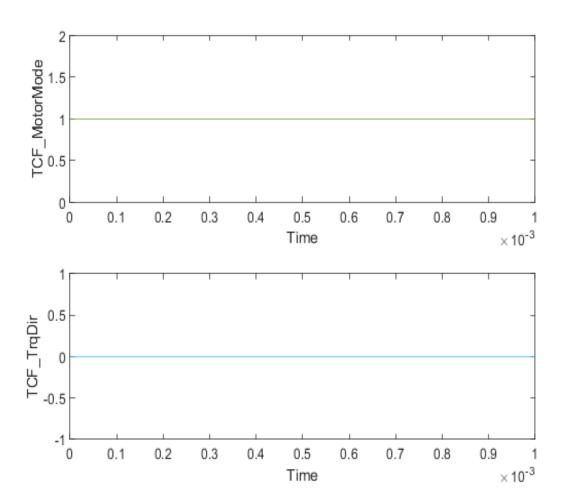
tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\TestCase\_TCF.xlsx

Name	Data Type	Unite	Units Sample Time Int		Sync	Link
1 variic	Data Type		ounipie iinie		Sylic	to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>

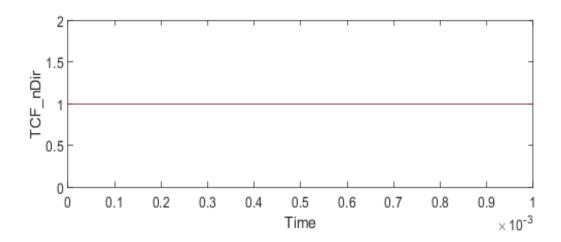


Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8	<del></del> _		zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



## Back to Report SummaryBack to Signal Summary

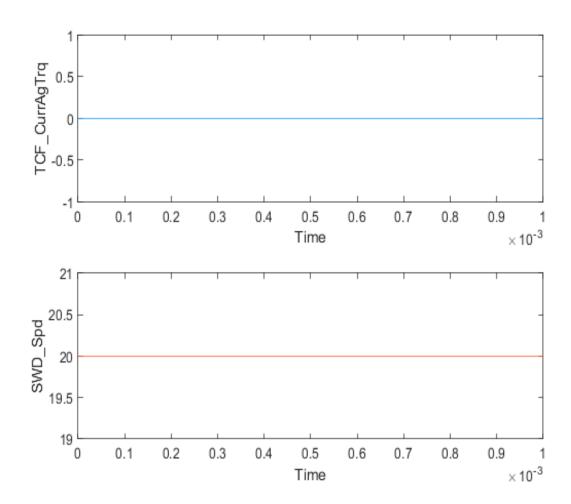
### **Input Data**

#### **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_06 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	 	 	zoh	union	<u>Link</u>
SWD_Spd	single			zoh	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single			zoh	union
SWD_Spd	single			zoh	union



Back to Report SummaryBack to Signal Summary

#### **Simulation**

#### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_06

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.001

Checksum: 2508796405 842606530 2825826339 503826758

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

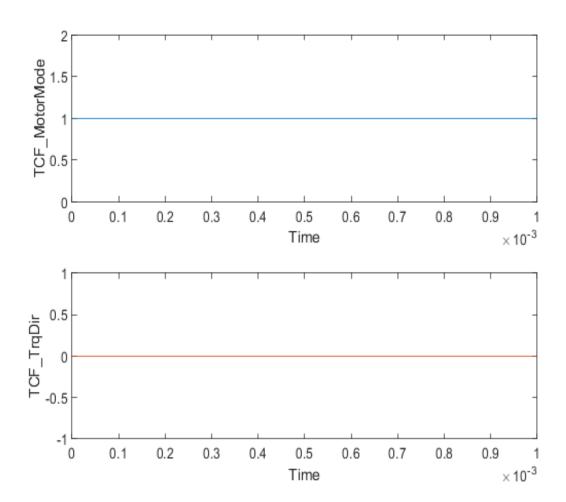
Simulation Start Time: 2021-12-20 15:30:50 Simulation Stop Time: 2021-12-20 15:30:52

Platform: PCWIN64

#### **Simulation Output**

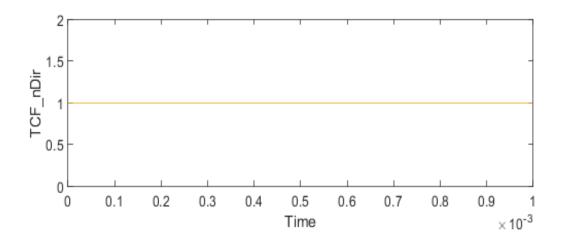
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8	г – <b>– – –</b> I		zoh	union	<u>Link</u>

TCF_nDir	uint8		zo	h union	<u>Link</u>
Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir		 	 	zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



### Back to Report SummaryBack to Signal Summary

## Simulation Logs:

Simulation stopped at '0.001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

#### **Back to Report Summary**

# EI09\_SWUT\_MIL\_MotorModeJdg\_07

#### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:30:57
End Time: 2021-12-20 15:31:01

Outcome: Passed

#### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeIdg\_07

**Baseline Test** 

Type: Baseline Name:

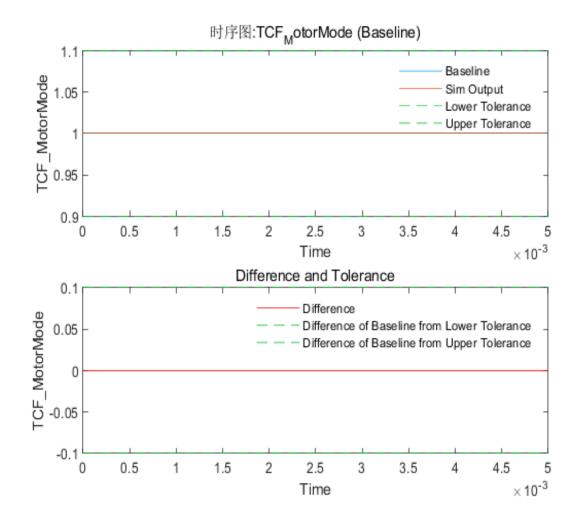
EI09\_SWUT\_MIL\_MotorModeJdg\_07 E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2 Baseline File:

\TestCase\_TCF.xlsx

### **Baseline Comparison**

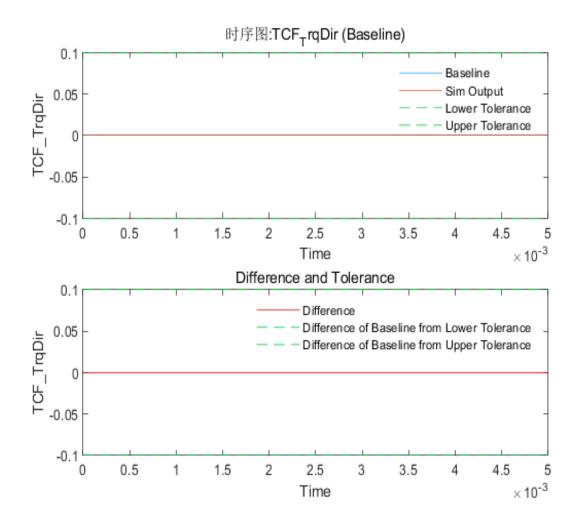
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Intonn	Syma	Link
Name	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2	Interp	Sync	to Plot
TCF_Moto	0.1	Г   0			Г	uint8						zoh	union	<u>Link</u>
rMode	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	+ $+$		<u> </u>	$\vdash$ $\dashv$		+	$\vdash$ $\dashv$	
TCF_TrqD ir	0.1	0	   0 	0	0	uint8			uint8	i i		zoh	union	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh	union	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto										Τ-Τ		
rMode	0.1 	0 	0 	0 	0 	uint8			uint8 	 		zoh  union 



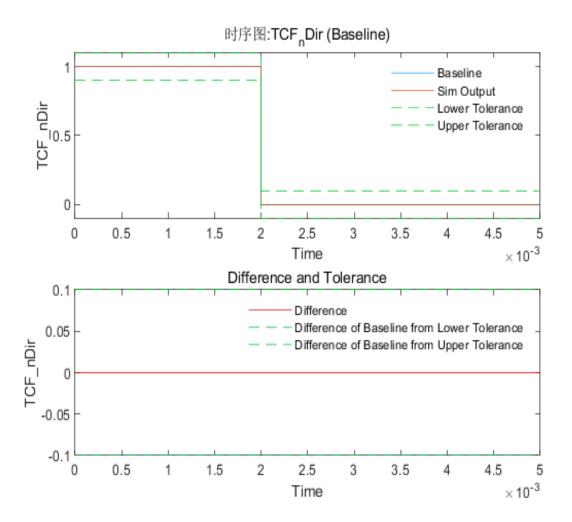
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol		Lag Tol	Max Diff	Data T ype 1		Sample Time 1	Data T ype 2		Sample Time 2	Interp Sync
TCF_TrqD		Γ	$\Box = \Box$				$\Gamma - \Gamma$			$\Gamma - T$		$\top$
101_1142	0.1	0	0	0	0	uint8			uint8			zoh  union
ir									l			



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	•	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh union



## Back to Report SummaryBack to Criteria Results

## ${\bf EI09\_SWUT\_MIL\_MotorModeJdg\_07}$

#### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_07

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

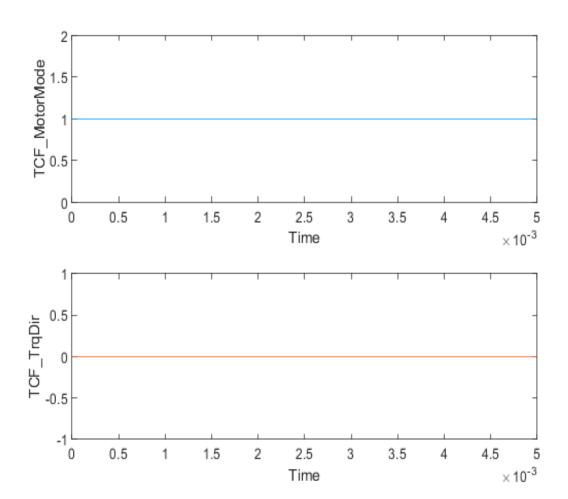
 $tform\_Models \\ \label{local_platform} In the local l$ 

\TestCase\_TCF.xlsx

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>

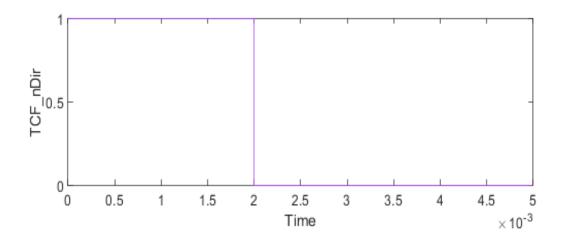


Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



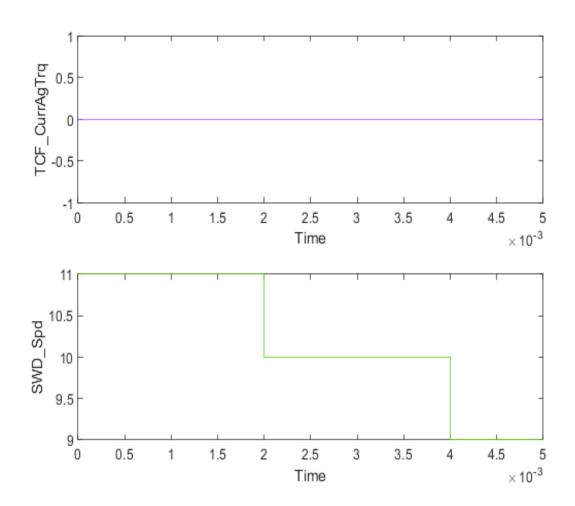
## **Input Data**

### **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_07 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	 	 	zoh	union	<u>Link</u>
SWD_Spd	single			zoh	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single			zoh	union
SWD_Spd	single			zoh	union



Back to Report SummaryBack to Signal Summary

#### **Simulation**

### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_07

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.0050000000000000001

Checksum: 2870125649 2975986283 1460307741 2219639252

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

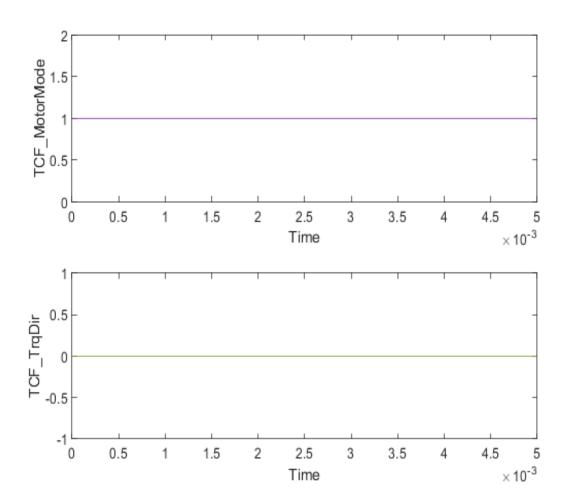
Simulation Start Time: 2021-12-20 15:30:57 Simulation Stop Time: 2021-12-20 15:30:59

Platform: PCWIN64

### **Simulation Output**

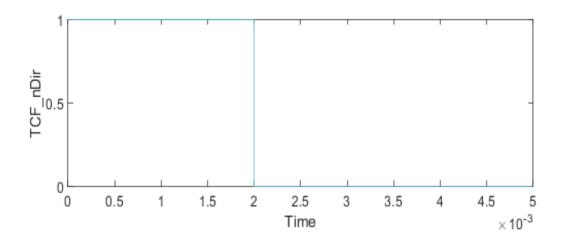
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8			zoh	union	<u>Link</u>

TCF_nDir	uint8		zo	h union	<u>Link</u>
	1			1	
Name Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8	<u> </u> 	 L	zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



### Simulation Logs:

Simulation stopped at '0.00500000000000001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

### **Back to Report Summary**

# EI09\_SWUT\_MIL\_MotorModeJdg\_08

#### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:31:03
End Time: 2021-12-20 15:31:07

Outcome: Passed

#### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeIdg\_08

Type: Baseline Name: **Baseline Test** 

EI09\_SWUT\_MIL\_MotorModeJdg\_08 E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla Baseline File:

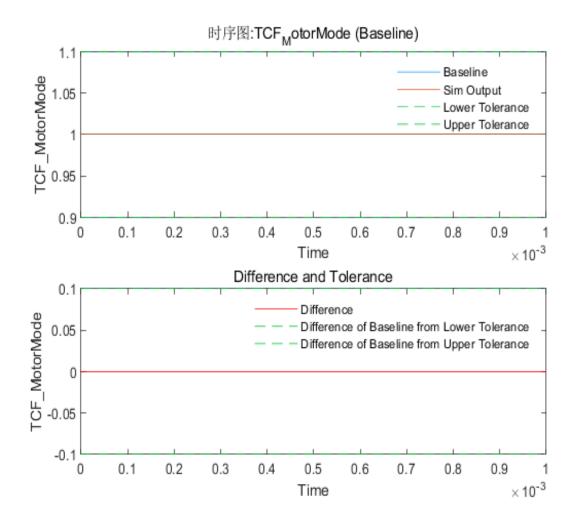
 $tform\_Models \\ \label{local_platform} In the local l$ 

\TestCase\_TCF.xlsx

## **Baseline Comparison**

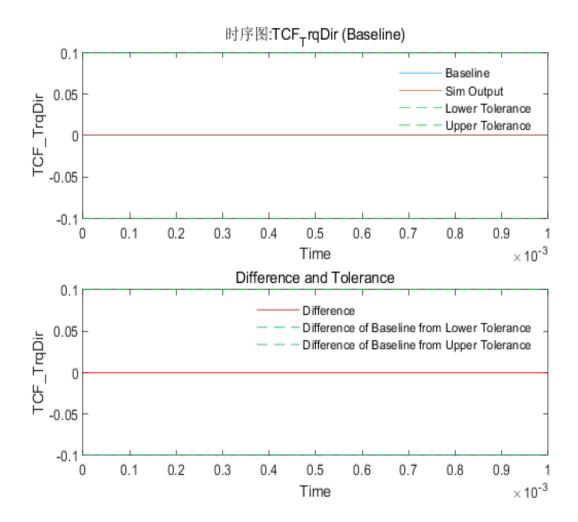
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Interp	Sync	Link
Name	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2	inter p	Sync	to Plot
TCF_Moto rMode	0.1	   0 		   0 	0	uint8			   uint8 			   zoh 	union 	<u>Link</u>
TCF_TrqD ir	   0.1 	   0 	   0 	   0 	0	uint8			   uint8 			   zoh 	union   	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh	union	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto												l sob hunion
rMode	0.1 	0	0	0 	0	uint8 	i i		uint8 	 		zoh  union



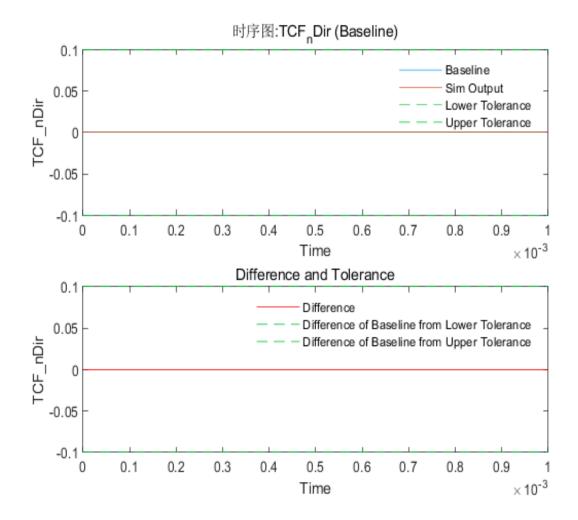
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol			Max Diff			Sample Time 1			•	Interp Sync
TCF TraD							$\sqcap \lnot \lnot$			$\Box$		
TCF_TrqD	0.1	0	0	0	0	uint8			uint8			zoh  union
ir							1 1					



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	•	Data T ype 2	Units 2	Sample Time 2	Interp Sync	
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh union	



## Back to Report SummaryBack to Criteria Results

### EI09\_SWUT\_MIL\_MotorModeJdg\_08

#### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_08

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

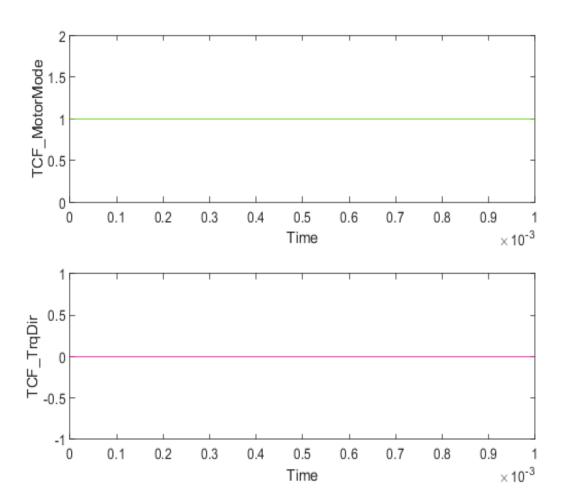
tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\TestCase\_TCF.xlsx

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>

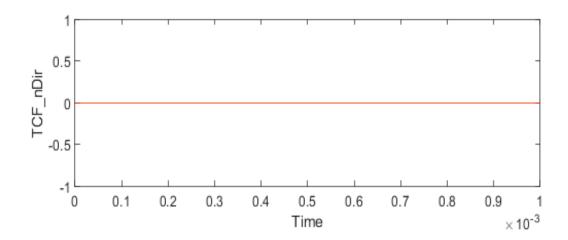


Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



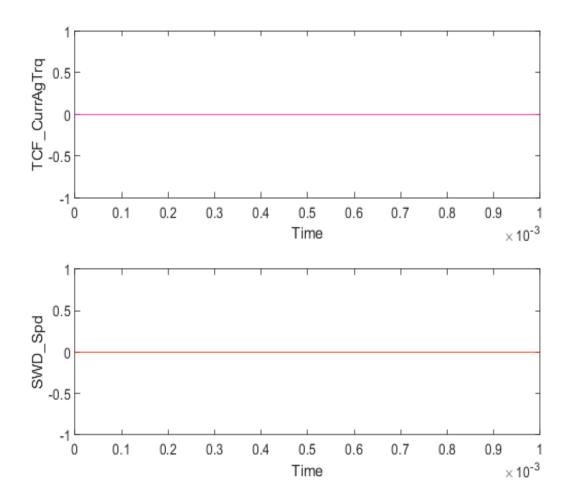
## **Input Data**

### **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_08 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	 	 	zoh	union	<u>Link</u>
SWD_Spd	single			zoh	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single			zoh	union
SWD_Spd	single			zoh	union



Back to Report SummaryBack to Signal Summary

#### Simulation

### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_08

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.001

Checksum: 2508796405 842606530 2825826339 503826758

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

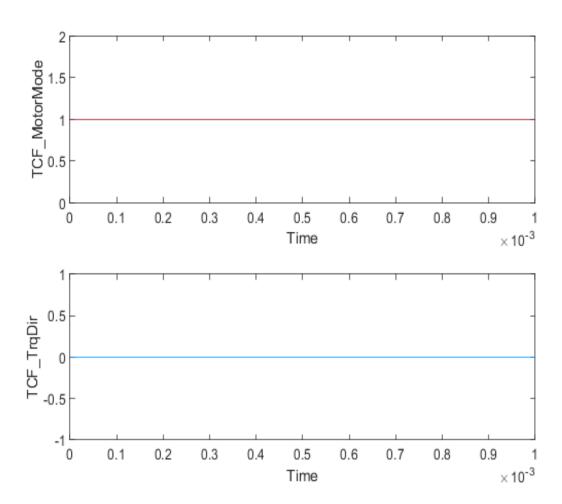
Simulation Start Time: 2021-12-20 15:31:03 Simulation Stop Time: 2021-12-20 15:31:05

Platform: PCWIN64

### **Simulation Output**

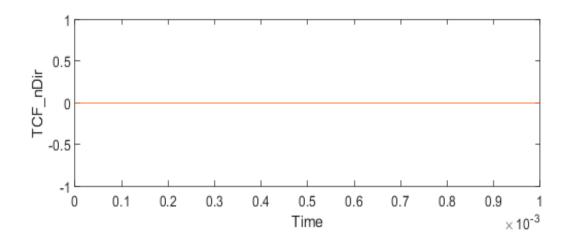
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	Link
TCF_TrqDir	uint8			zoh	union	<u>Link</u>

TCF_nDir	uint8		zol	h union	<u>Link</u>
Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



# Simulation Logs:

Simulation stopped at '0.001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

### **Back to Report Summary**

# EI09\_SWUT\_MIL\_MotorModeJdg\_09

#### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:31:09
End Time: 2021-12-20 15:31:14

Outcome: Passed

#### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeIdg\_09

Type: Baseline Name: **Baseline Test** 

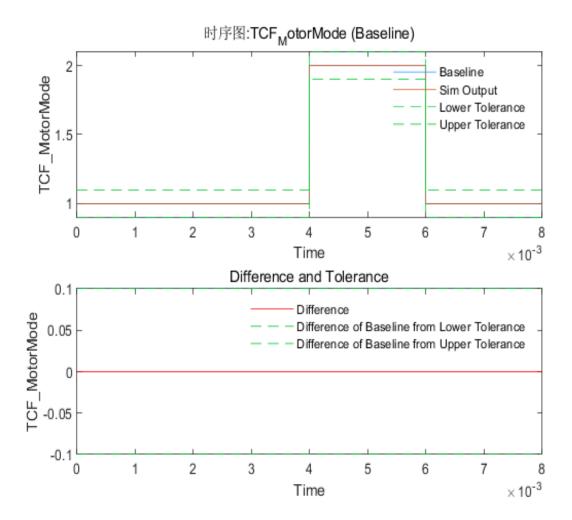
 $EI09\_SWUT\_MIL\_MotorModeJdg\_09\\ E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla\\ tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2\\$ Baseline File:

\TestCase\_TCF.xlsx

## **Baseline Comparison**

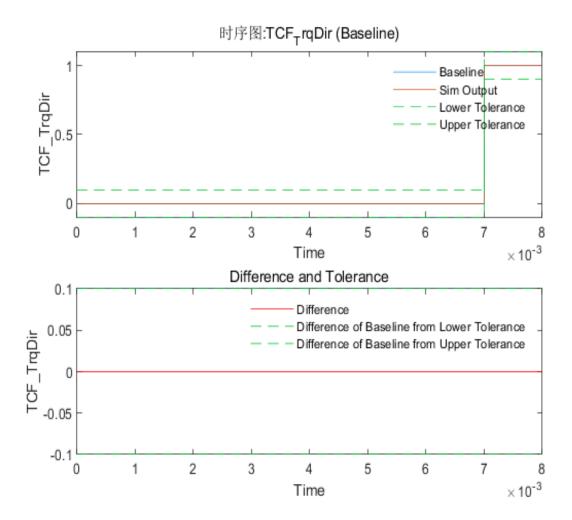
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Interp	Syme	Link
Name	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2	inter p	Sync	to Plot
TCF_Moto rMode	0.1	   0 		0	0	uint8						   zoh	union   	<u>Link</u>
TCF_TrqD	0.1	0		0	0	uint8						zoh	union 	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh	union	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto										Τ-Τ		
rMode	0.1 	0 	0 	0 	0 	uint8			uint8 	 		zoh  union 



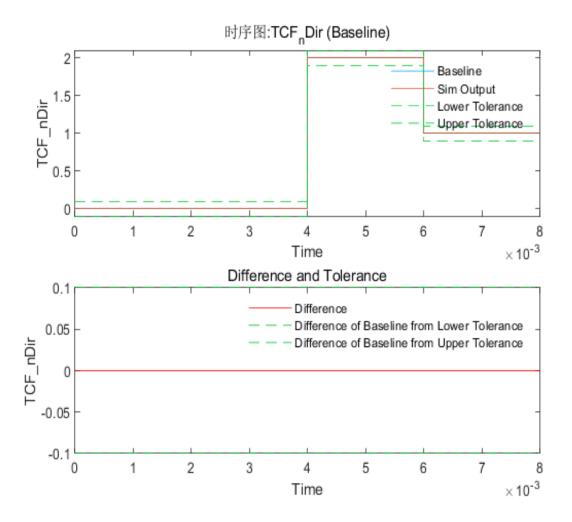
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol			Max Diff			Sample Time 1			•	Interp Sync
TCF TraD							$\sqcap \lnot \lnot$			$\Box$		
TCF_TrqD	0.1	0	0	0	0	uint8			uint8			zoh  union
ir							1 1					



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	•	Data T ype 2	Units 2	Sample Time 2	Interp Sync	
TCF_nDir	0.1	0	0	0	0	uint8			uint8			zoh union	



# Back to Report SummaryBack to Criteria Results

### EI09\_SWUT\_MIL\_MotorModeJdg\_09

### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_09

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

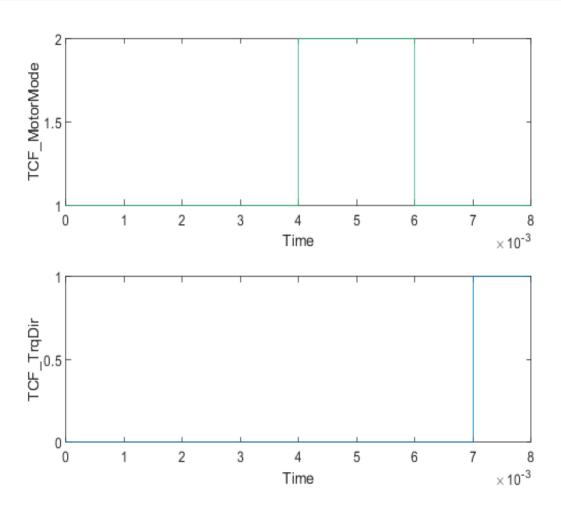
 $tform\_Models \\ \label{eq:local_platform} -- \\ \label{eq:loca$ 

\TestCase\_TCF.xlsx

Name	Data Type	Units	Sample Time	Interp	Sync	Link
	Data Type	OHICS	Sample Time	Inter p	Sylic	to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>

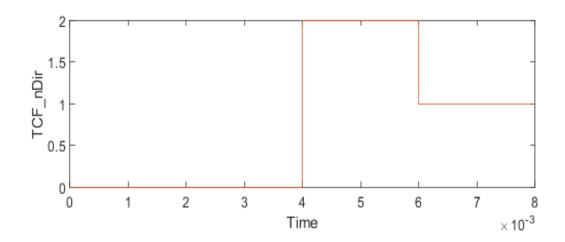


Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



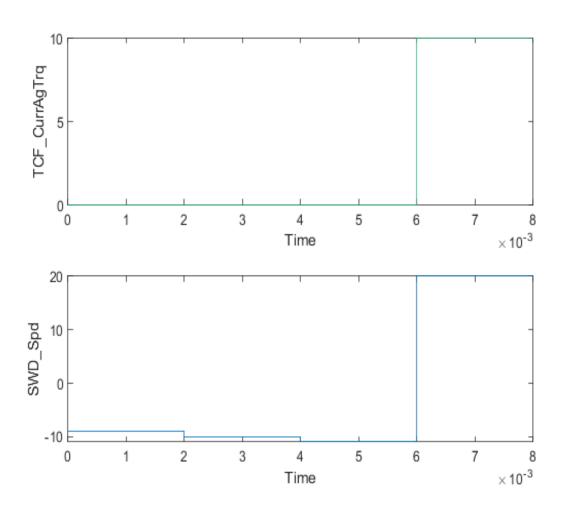
## **Input Data**

## **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_09 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single			zoh	union	<u>Link</u>
SWD_Spd	single			zoh	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single			zoh	union
SWD_Spd	single			zoh	union



Back to Report SummaryBack to Signal Summary

#### **Simulation**

#### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_09

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\TestCase\_TCF.xlsx

Start Time: 0

Checksum: 3324409210 3949898521 782270078 2900793725

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

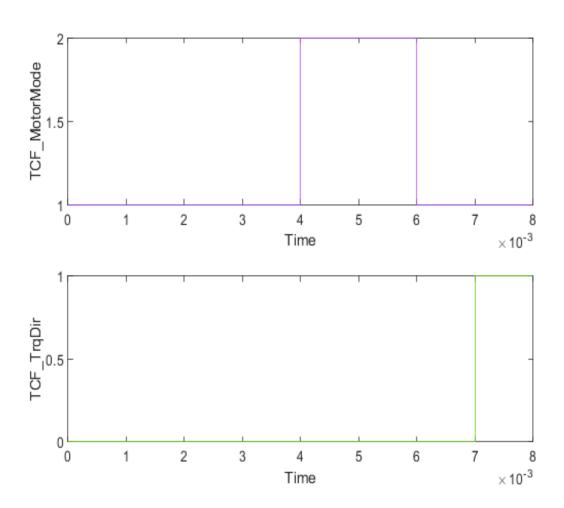
Simulation Start Time: 2021-12-20 15:31:09 Simulation Stop Time: 2021-12-20 15:31:11

Platform: PCWIN64

#### **Simulation Output**

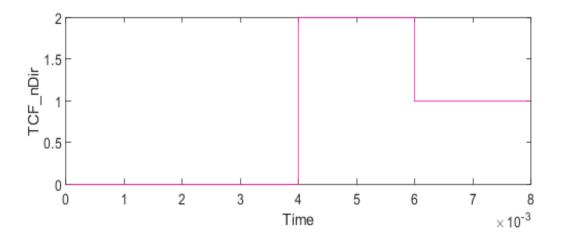
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8			zoh	union	<u>Link</u>

TCF_nDir	uint8		20	h union	<u>Link</u>
Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



## Back to Report SummaryBack to Signal Summary

## Simulation Logs:

Simulation stopped at '0.0080000000000000002' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

#### **Back to Report Summary**

# EI09\_SWUT\_MIL\_MotorModeJdg\_10

#### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:31:15
End Time: 2021-12-20 15:31:20

Outcome: Passed

#### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeIdg\_10

Type: Baseline Name: **Baseline Test** 

EI09\_SWUT\_MIL\_MotorModeJdg\_10 E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla Baseline File:

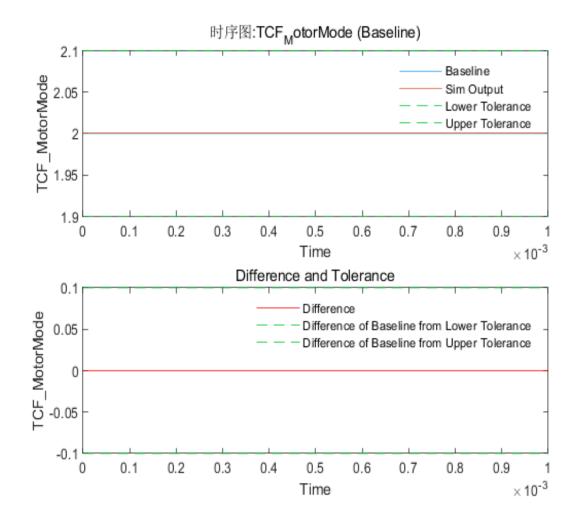
 $tform\_Models \\ \label{local_platform} In the local l$ 

\TestCase\_TCF.xlsx

## **Baseline Comparison**

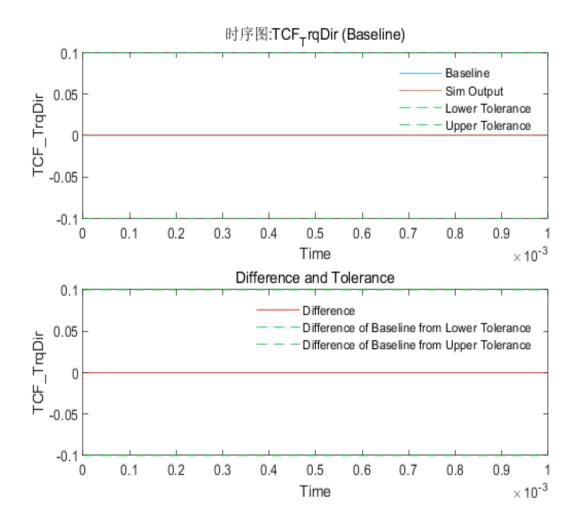
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
☑ TCF_Moto	0.1	0	0	0	0	uint8		Continuous				linear	union	
rMode  TCF_TrqD							<del> </del>			-		<del> </del> -	-+	
ir TCF_nDir	0.1		$\begin{bmatrix} 0 \\ - \\ 0 \end{bmatrix}$	0	$\begin{bmatrix} 0 \\ -\frac{1}{0} \end{bmatrix}$	uint8 — — — — uint8	<u> </u>	Continuous  Continuous  Continuous		<u> </u>		linear	$-\dot{+}$	<u>Link</u> -

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto	0.1	0 	0 	0 	0	uint8		Continuous	uint8			linear union



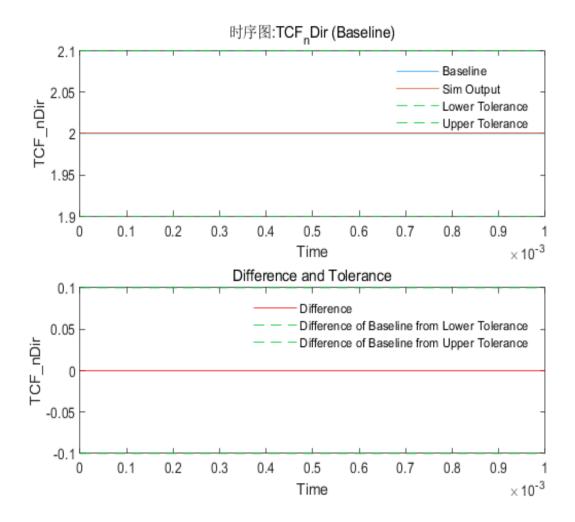
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1		•	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_TrqD	$\Gamma - \Gamma$	Γ	$\vdash \vdash \vdash$				$\sqcap \lnot \lnot$			$\Gamma - T$		$\top$
- rer_rrqb	0.1	0	0	0	0	uint8		Continuous	uint8			linear union
ir		l	I				1 1			1 1		1 1



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_nDir	0.1	$\begin{bmatrix} 0 \end{bmatrix}$	$\begin{bmatrix} - & - \\ 0 & \end{bmatrix}$		0	uint8		Continuous	uint8			linear union



## Back to Report SummaryBack to Criteria Results

## $EI09\_SWUT\_MIL\_MotorModeJdg\_10$

#### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_10

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

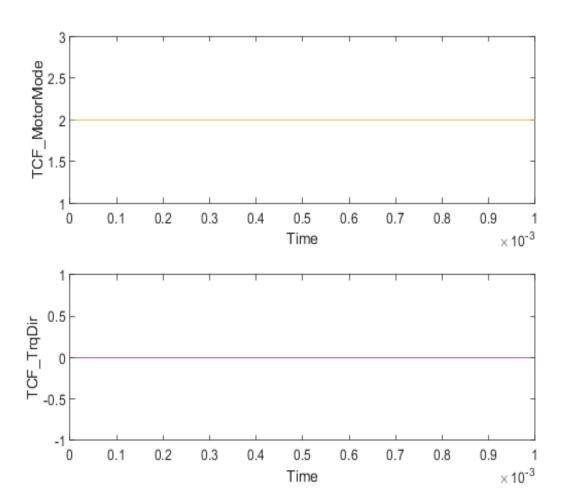
tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\TestCase\_TCF.xlsx

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8		Continuous	linear	union	<u>Link</u>

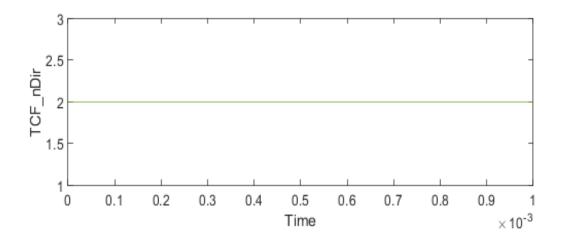
TCF_TrqDir	uint8	Continuous	linear	union	<u>Link</u>
TCF_nDir	uint8	Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8		Continuous	linear	union
TCF_TrqDir	uint8		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8		Continuous	linear	union



# Back to Report SummaryBack to Signal Summary

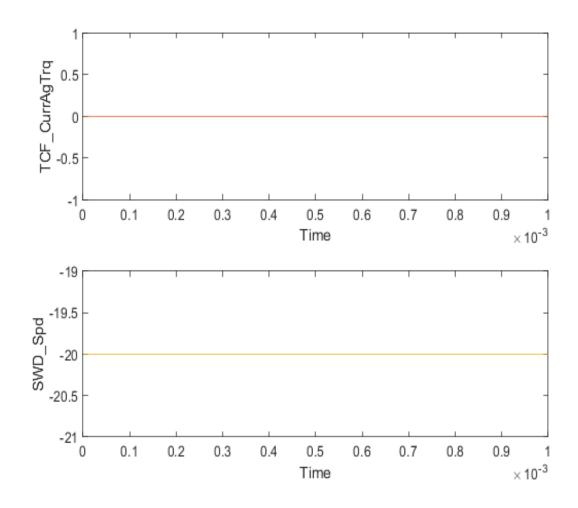
## **Input Data**

### **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_10 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	l L	Continuous	linear	union	<u>Link</u>
SWD_Spd	single	 	Continuous	linear	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single		Continuous	linear	union
SWD_Spd	single		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

#### Simulation

#### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_10

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.001

Checksum: 2508796405 842606530 2825826339 503826758

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

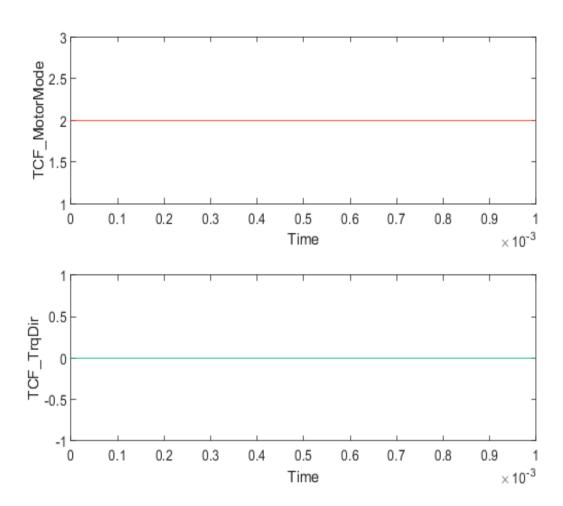
Simulation Start Time: 2021-12-20 15:31:15 Simulation Stop Time: 2021-12-20 15:31:17

Platform: PCWIN64

### **Simulation Output**

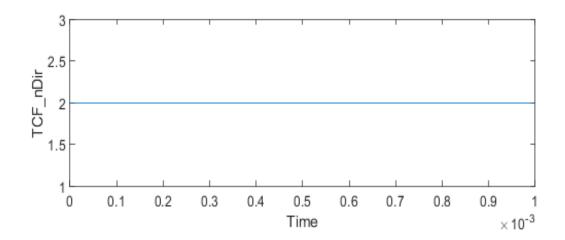
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8	г – <b>– – –</b> I		zoh	union	<u>Link</u>

TCF_nDir	uint8		zo	h union	<u>Link</u>
Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



## Back to Report SummaryBack to Signal Summary

# Simulation Logs:

Simulation stopped at '0.001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

#### **Back to Report Summary**

# EI09\_SWUT\_MIL\_MotorModeJdg\_11

#### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:31:22
End Time: 2021-12-20 15:31:26

Outcome: Passed

#### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeJdg\_11

Type: Baseline Name: **Baseline Test** 

 $EI09\_SWUT\_MIL\_MotorModeJdg\_11\\E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla$ Baseline File:

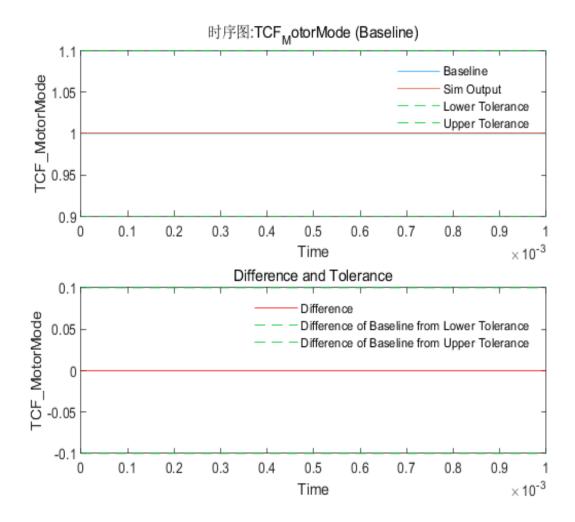
 $tform\_Models \\ \label{local_platform} In the local l$ 

\TestCase\_TCF.xlsx

## **Baseline Comparison**

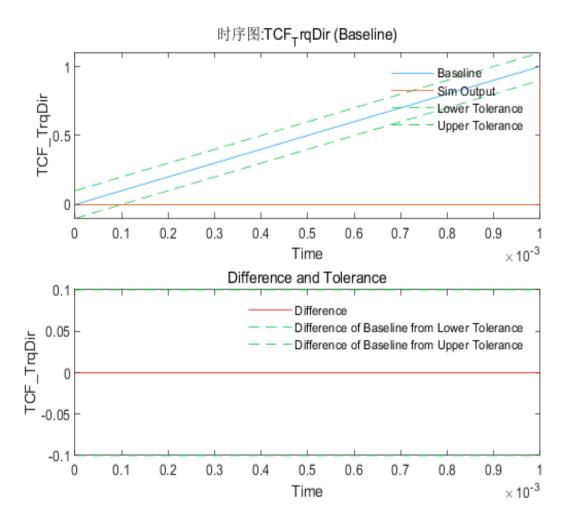
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Interp	Sync	Link
- Trustic	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2	Inter p	oyne	to Plot
TCF_Moto rMode	0.1	0		0	0	uint8	   	  Continuous 	uint8			  linear ı 	union	<u>Link</u>
TCF_TrqD	0.1	0	0 	0	0	uint8		  Continuous 	uint8			linear h	union	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8		Continuous	uint8			linear	union	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto												
	0.1	0	0	0	0	uint8		Continuous	uint8			linear union
rMode												



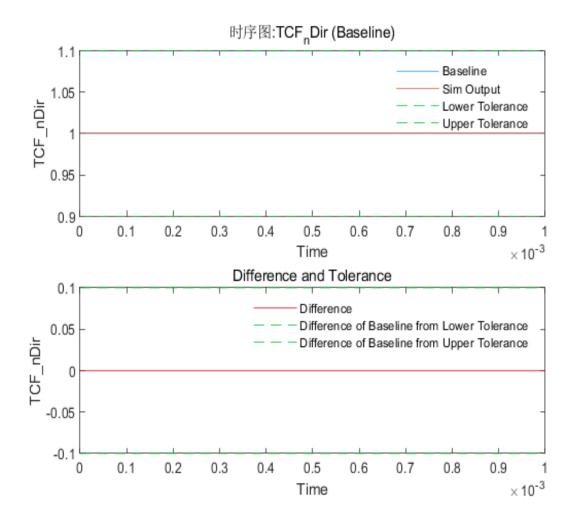
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1		•	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_TrqD		Γ					$\Box$			$\Gamma - \Gamma$		$\top$
	0.1	0	0	0	0	uint8		Continuous	uint8			linear union
ir												



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_nDir	0.1	$\begin{bmatrix} 0 \end{bmatrix}$	$\begin{bmatrix} - & - \\ 0 & \end{bmatrix}$		0	uint8		Continuous	uint8			linear union



## Back to Report SummaryBack to Criteria Results

## $EI09\_SWUT\_MIL\_MotorModeJdg\_11$

#### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_11

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

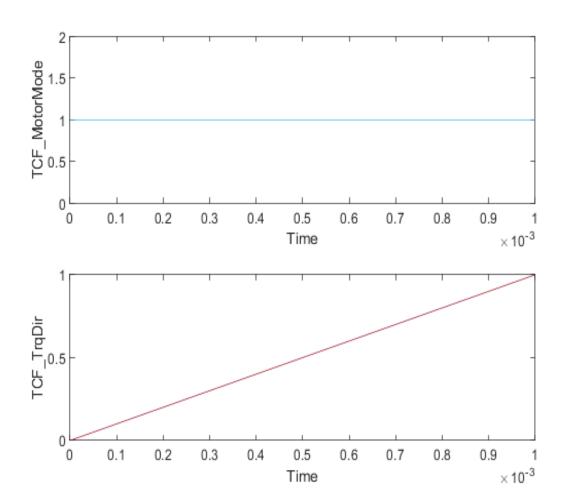
 $tform\_Models \verb|\01\_Platformmodels\\| FS\\| TCF\\| TCF\_V2$ 

\TestCase\_TCF.xlsx

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8		Continuous	linear	union	<u>Link</u>

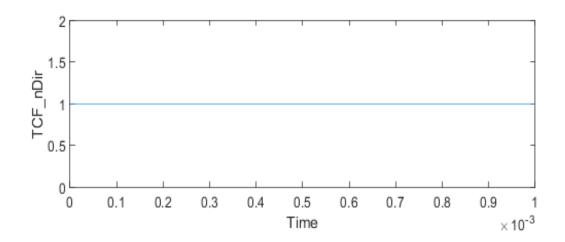
TCF_TrqDir	uint8	Continuous	linear	union	<u>Link</u>
TCF_nDir	uint8	Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8		Continuous	linear	union
TCF_TrqDir	uint8		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8		Continuous	linear	union



## Back to Report SummaryBack to Signal Summary

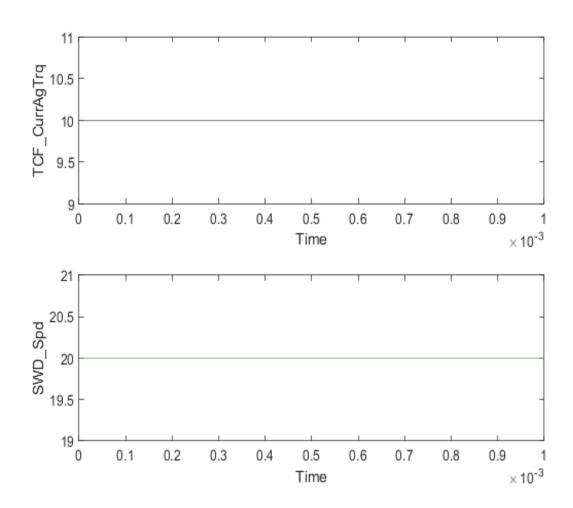
## **Input Data**

#### **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_11 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	 	Continuous	linear	union	<u>Link</u>
SWD_Spd	single		Continuous	linear	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single		Continuous	linear	union
SWD_Spd	single		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

#### **Simulation**

#### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_11

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.001

Checksum: 2508796405 842606530 2825826339 503826758

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

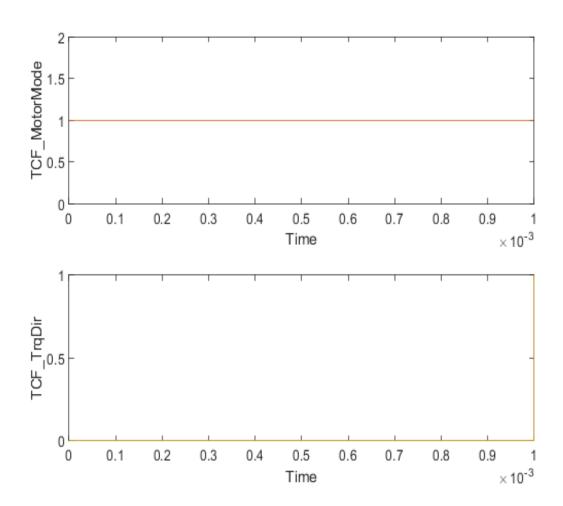
Simulation Start Time: 2021-12-20 15:31:22 Simulation Stop Time: 2021-12-20 15:31:24

Platform: PCWIN64

### **Simulation Output**

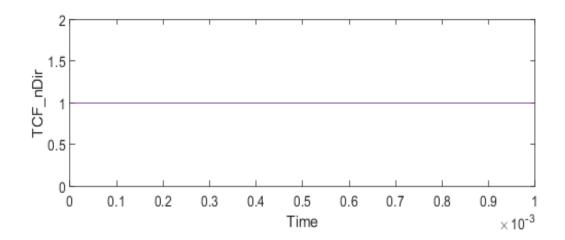
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8	г – <b>– – –</b> I		zoh	union	<u>Link</u>

TCF_nDir	uint8		zo	h union	<u>Link</u>
	1			1	
Name Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8	<u> </u> 	 L	zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



## Simulation Logs:

Simulation stopped at '0.001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

### **Back to Report Summary**

# $EI09\_SWUT\_MIL\_MotorModeJdg\_12$

### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:31:28
End Time: 2021-12-20 15:31:33

Outcome: Passed

### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeJdg\_12

Type: Baseline Name: **Baseline Test** 

EI09\_SWUT\_MIL\_MotorModeJdg\_12 E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla Baseline File:

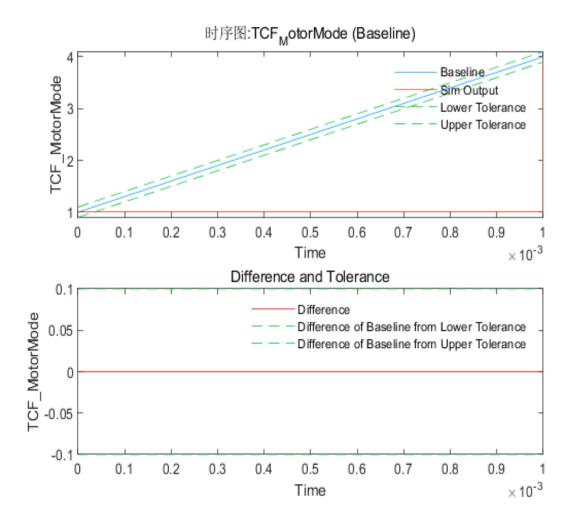
 $tform\_Models \\ \label{local_platform} In the local l$ 

\TestCase\_TCF.xlsx

## **Baseline Comparison**

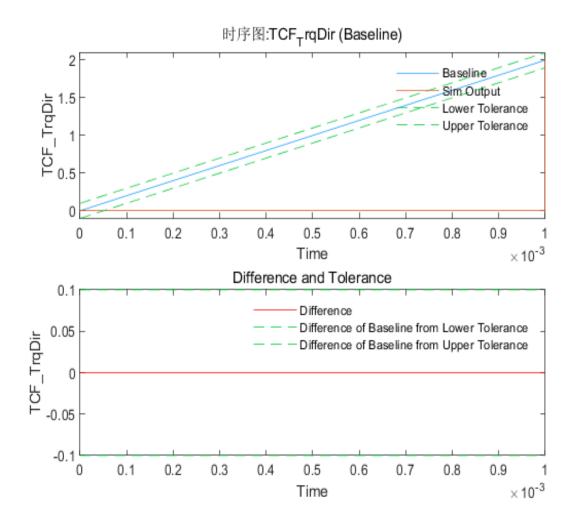
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Interp	Sync	Link
- Trustic	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2	Inter p	oyne	to Plot
TCF_Moto rMode	0.1	0		0	0	uint8	   	  Continuous 	uint8			  linear ı 	union	<u>Link</u>
TCF_TrqD	0.1	0	0 	0	0	uint8		  Continuous 	uint8			linear h	union	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8		Continuous	uint8			linear	union	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto												
	0.1	0	0	0	0	uint8		Continuous	uint8			linear union
rMode												



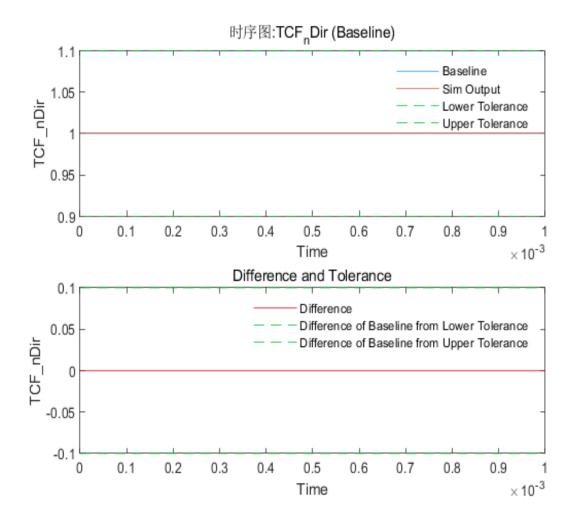
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1		•	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_TrqD	$\Gamma - \Gamma$	Γ	$\vdash \vdash \vdash$				$\sqcap \lnot \lnot$			$\Gamma - T$		$\top$
- rer_rrqb	0.1	0	0	0	0	uint8		Continuous	uint8			linear union
ir		l	I				1 1			1 1		1 1



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_nDir	0.1	$\begin{bmatrix} 0 \end{bmatrix}$	$\begin{bmatrix} - & - \\ 0 & \end{bmatrix}$		0	uint8		Continuous	uint8			linear union



## Back to Report SummaryBack to Criteria Results

## EI09\_SWUT\_MIL\_MotorModeJdg\_12

### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_12

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

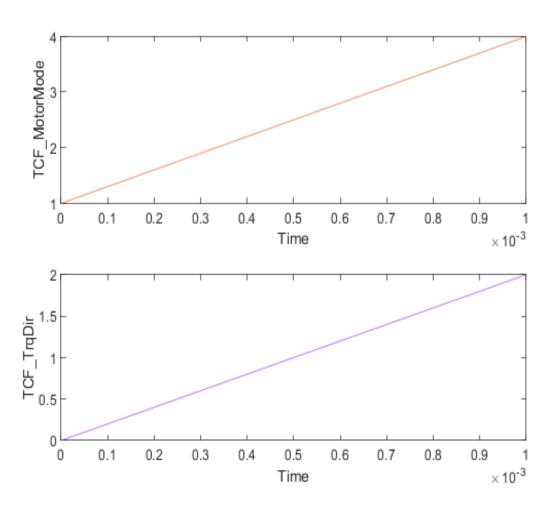
tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\TestCase\_TCF.xlsx

Name	Data Type	Units	Sample Time	Interp	Sync	Link
						to Plot
TCF_MotorMode	uint8		Continuous	linear	union	<u>Link</u>

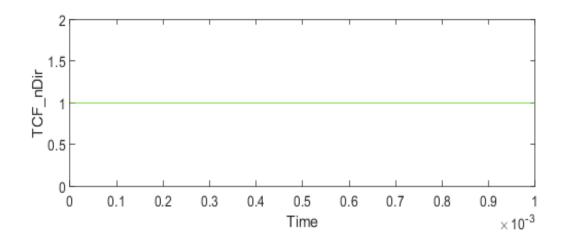
TCF_TrqDir	uint8	Continuous	linear	union	<u>Link</u>
TCF_nDir	uint8	Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8		Continuous	linear	union
TCF_TrqDir	uint8		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8		Continuous	linear	union



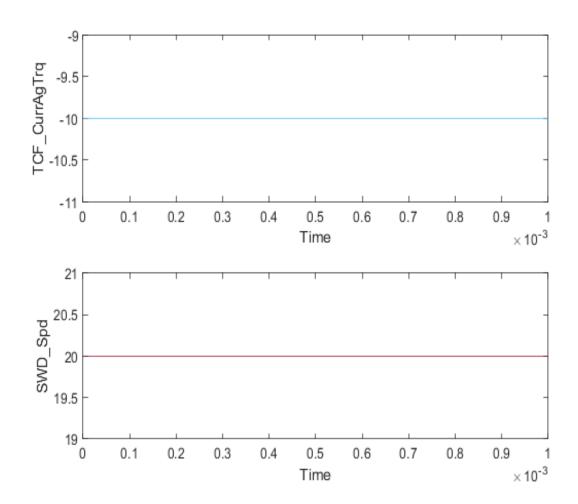
## **Input Data**

## **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_12 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	l L	Continuous	linear	union	<u>Link</u>
SWD_Spd	single		Continuous	linear	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single		Continuous	linear	union
SWD_Spd	single		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

### Simulation

### **System Under Test Information**

Model: SWC TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_12

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.001

Checksum: 2508796405 842606530 2825826339 503826758

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

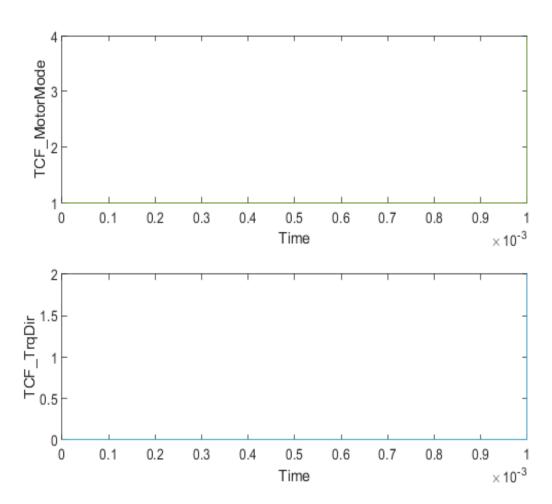
Simulation Start Time: 2021-12-20 15:31:28 Simulation Stop Time: 2021-12-20 15:31:30

Platform: PCWIN64

## **Simulation Output**

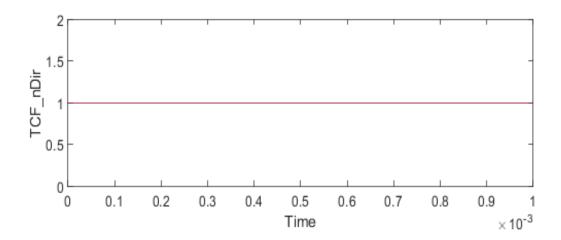
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8	г – <b>– – –</b> I		zoh	union	<u>Link</u>

TCF_nDir	uint8		20	h union	<u>Link</u>
Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



# Simulation Logs:

Simulation stopped at '0.001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

### **Back to Report Summary**

# EI09\_SWUT\_MIL\_MotorModeJdg\_13

### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:31:35
End Time: 2021-12-20 15:31:40

Outcome: Passed

### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeJdg\_13

Type: Baseline Name: **Baseline Test** 

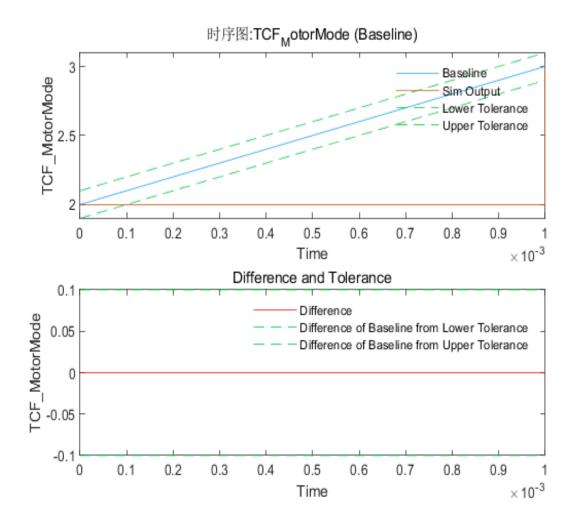
 $EI09\_SWUT\_MIL\_MotorModeJdg\_13\\ E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla\\ tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2\\$ Baseline File:

\TestCase\_TCF.xlsx

## **Baseline Comparison**

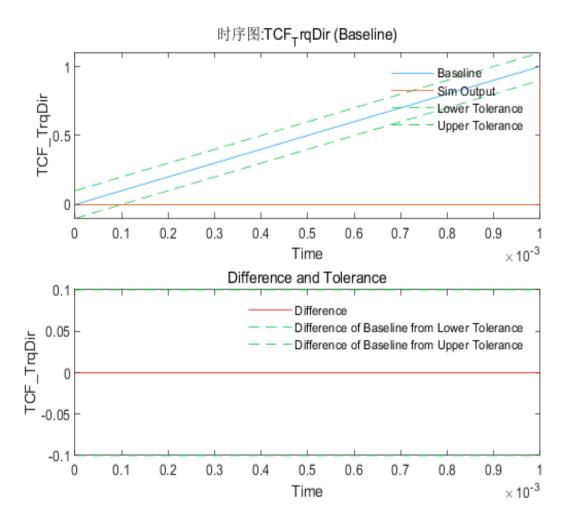
Name	Abs	Rel	Lead	Lag	Max	Data	Units	Sample	Data	Units	Sample	Interp	Sync	Link
Name	Tol	Tol	Tol	Tol	Diff	Type 1	1	Time 1	Type 2	2	Time 2	inter p	Sync	to Plot
TCF_Moto rMode	0.1	   0 		   0 	0	uint8	    L	  Continuous 	uint8			  linear ı 	union  	<u>Link</u>
TCF_TrqD ir	   0.1 	   0 	   0 	   0 	0	uint8	   	  Continuous 	uint8			  linear  	union   	<u>Link</u>
TCF_nDir	0.1	0	0	0	0	uint8		Continuous	uint8			linear	ınion <sub> </sub>	<u>Link</u>

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto												
	0.1	0	0	0	0	uint8		Continuous	uint8			linear union
rMode												



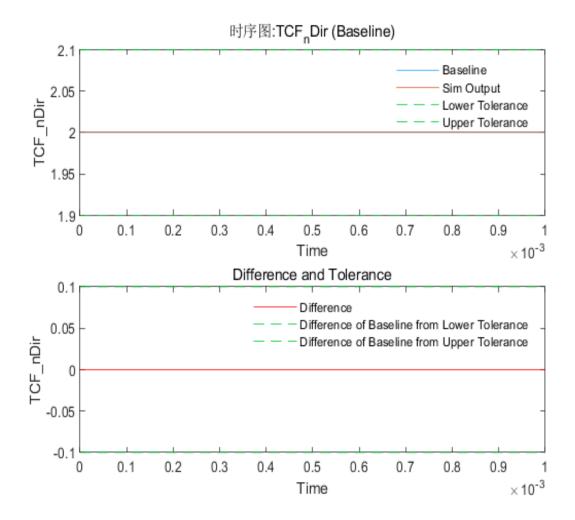
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1		•	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_TrqD	$\Gamma - \Gamma$	Γ	$\vdash \vdash \vdash$				$\sqcap \lnot \lnot$			$\Gamma - T$		$\top$
- rer_rrqb	0.1	0	0	0	0	uint8		Continuous	uint8			linear union
ir		l	I				1 1			1 1		1 1



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_nDir	0.1	$\begin{bmatrix} 0 \end{bmatrix}$	$\begin{bmatrix} - & - \\ 0 & \end{bmatrix}$		0	uint8		Continuous	uint8			linear union



## Back to Report SummaryBack to Criteria Results

## EI09\_SWUT\_MIL\_MotorModeJdg\_13

### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_13

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

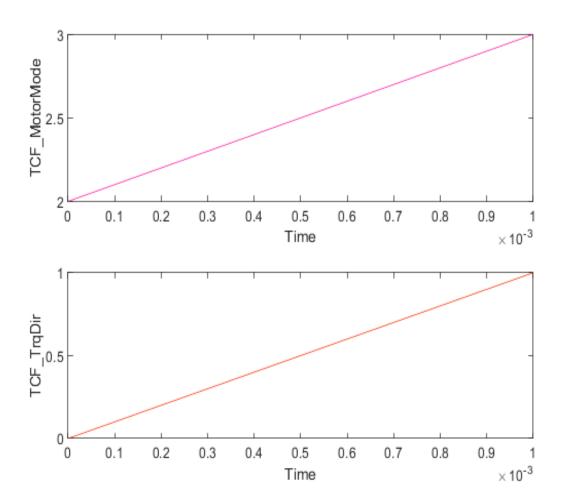
tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\TestCase\_TCF.xlsx

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8		Continuous	linear	union	<u>Link</u>

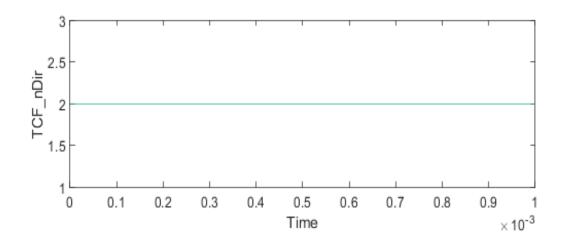
TCF_TrqDir	uint8	Continuou	slinear	union	<u>Link</u>
TCF_nDir	uint8	Continuou	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8		Continuous	linear	union
TCF_TrqDir	uint8		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8		Continuous	linear	union



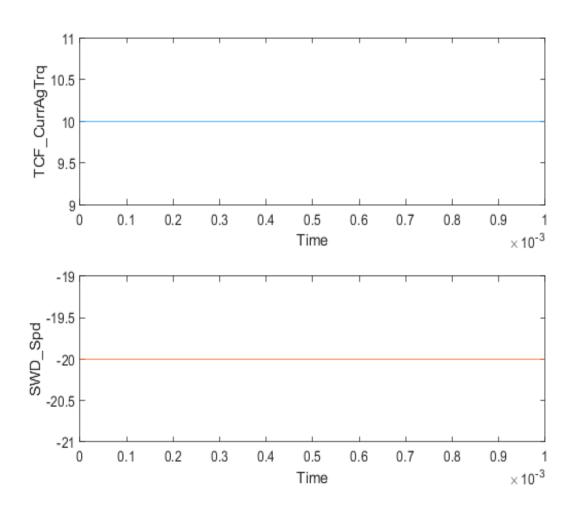
## **Input Data**

## **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_13 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	l L	Continuous	linear	union	<u>Link</u>
SWD_Spd	single		Continuous	linear	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single		Continuous	linear	union
SWD_Spd	single		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

### **Simulation**

### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_13

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.001

Checksum: 2508796405 842606530 2825826339 503826758

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

 $\SWC_TCF.slx$ 

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

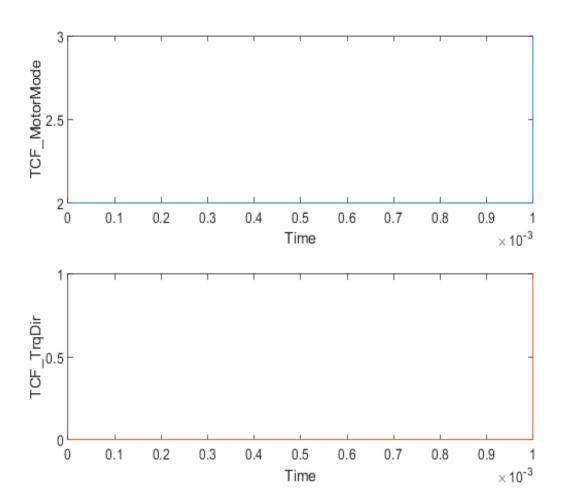
Simulation Start Time: 2021-12-20 15:31:35 Simulation Stop Time: 2021-12-20 15:31:37

Platform: PCWIN64

## **Simulation Output**

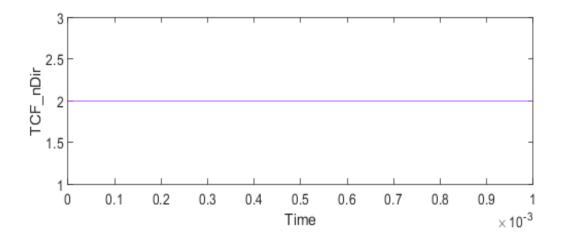
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8			zoh	union	<u>Link</u>

TCF_nDir	uint8		zo	h union	<u>Link</u>
	1				
Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8	 	 	zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



## Simulation Logs:

Simulation stopped at '0.001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

#### **Back to Report Summary**

# EI09\_SWUT\_MIL\_MotorModeJdg\_14

#### **Test Result Information**

Result Type: Test Case Result
Parent: MotorModeJdg
Start Time: 2021-12-20 15:31:42
End Time: 2021-12-20 15:31:46

Outcome: Passed

#### **Test Case Information**

Name: EI09\_SWUT\_MIL\_MotorModeIdg\_14

Type: Baseline Name: **Baseline Test** 

 $EI09\_SWUT\_MIL\_MotorModeJdg\_14\\ E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla$ Baseline File:

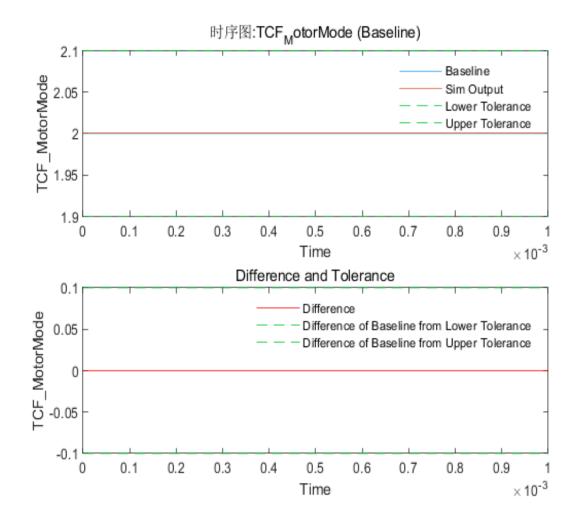
 $tform\_Models \\ \label{local_platform} In the local l$ 

\TestCase\_TCF.xlsx

### **Baseline Comparison**

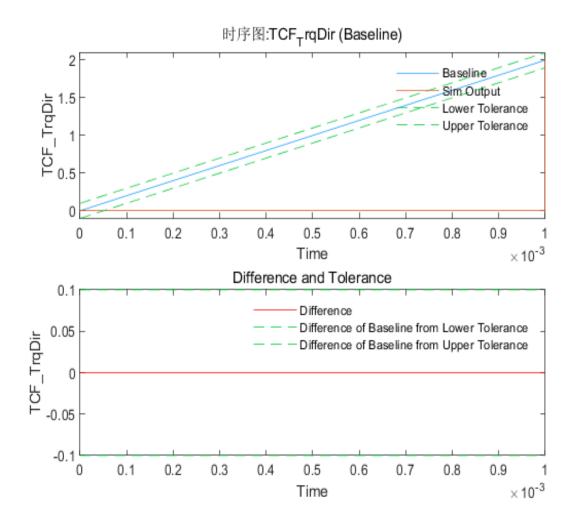
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
☑ TCF_Moto	0.1	0	0	0	0	uint8		Continuous				linear	union	
rMode  TCF_TrqD							<del> </del>			-		<del> </del> -	-+	
ir TCF_nDir	0.1		$\begin{bmatrix} 0 \\ - \\ 0 \end{bmatrix}$	0	$\begin{bmatrix} 0 \\ - \\ 0 \end{bmatrix}$	uint8 — — — — uint8	<u> </u>	Continuous  Continuous  Continuous		<u> </u>		linear	$-\dot{+}$	<u>Link</u> -

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_Moto	0.1 	0 	0 	0   	0	uint8		Continuous	uint8			linear union



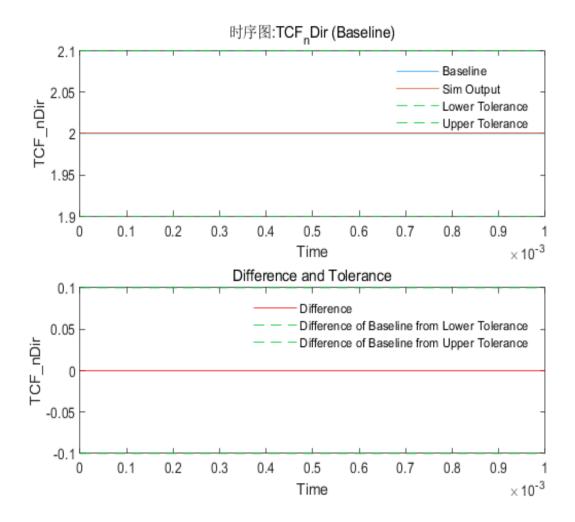
Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1		•	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_TrqD	$\Gamma - \Gamma$	Γ	$\vdash \vdash \vdash$				$\sqcap \lnot \lnot$			$\Gamma - T$		$\top$
- rer_rrqb	0.1	0	0	0	0	uint8		Continuous	uint8			linear union
ir		I	I				1 1			1 1		1 1



Back to Report SummaryBack to Criteria Results

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data T ype 1	Units 1	Sample Time 1	Data T ype 2	Units 2	Sample Time 2	Interp Sync
TCF_nDir	0.1	$\begin{bmatrix} 0 \end{bmatrix}$	$\begin{bmatrix} - & - \\ 0 & \end{bmatrix}$		0	uint8		Continuous	uint8			linear union



## Back to Report SummaryBack to Criteria Results

## $EI09\_SWUT\_MIL\_MotorModeJdg\_14$

#### **Baseline Information**

Baseline Name: EI09\_SWUT\_MIL\_MotorModeJdg\_14

Baseline File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

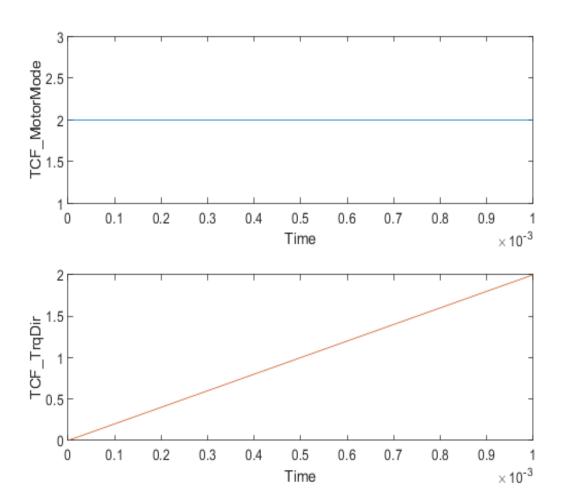
tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\TestCase\_TCF.xlsx

Name	Data Type	Units	Sample Time	Interp	Sync	Link
	,					to Plot
TCF_MotorMode	uint8		Continuous	linear	union	<u>Link</u>

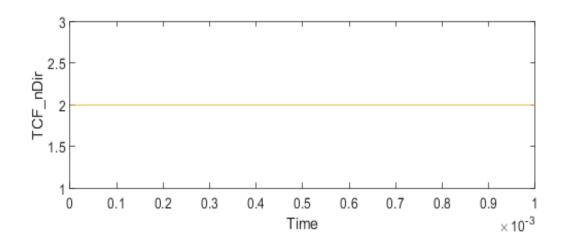
TCF_TrqDir	uint8	Continuous	linear	union	<u>Link</u>
TCF_nDir	uint8	Continuous	linear	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8		Continuous	linear	union
TCF_TrqDir	uint8		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8		Continuous	linear	union



## Back to Report SummaryBack to Signal Summary

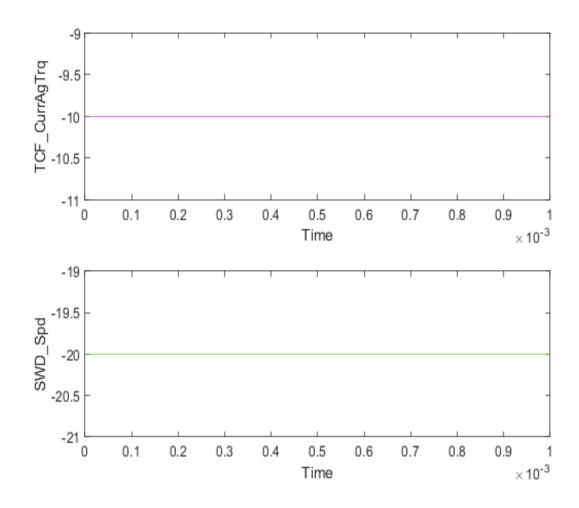
### **Input Data**

#### **Input Information**

External Input Na EI09\_SWUT\_MIL\_MotorModeJdg\_14 me:

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_CurrAgTrq	single	 	Continuous	linear	union	<u>Link</u>
SWD_Spd	single		Continuous	linear	union	<u>Link</u>

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_CurrAgTrq	single		Continuous	linear	union
SWD_Spd	single		Continuous	linear	union



Back to Report SummaryBack to Signal Summary

#### **Simulation**

#### **System Under Test Information**

Model: SWC\_TCF

Harness: SWC\_TCF\_Harness\_MotorModeJdg

Harness Owner: SWC\_TCF/SWC\_TCF\_1ms\_sys/CurrAgTrqCalcPro

c/MotorModeIdg

Simulation Mode: normal

Override SIL or PIL Mod 0

e:

Configuration Set: Configuration 1

External Input Name: EI09\_SWUT\_MIL\_MotorModeJdg\_14

External Input File: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform Models\01 Platformmodels\FS\TCF\TCF V2

\TestCase TCF.xlsx

Start Time: 0

Stop Time: 0.001

Checksum: 2508796405 842606530 2825826339 503826758

Simulink Version: 10.1 Model Version: 1.1

Model Author: dongliyuan

Date: Mon Dec 20 15:28:49 2021

User ID: dongliyuan

Model Path: E:\EI09\_Project\ei09\03\_Controller\_Models\02\_Pla

tform\_Models\01\_Platformmodels\FS\TCF\TCF\_V2

\SWC\_TCF.slx

Machine Name: MC-ZHANGJUNRENB Solver Name: FixedStepDiscrete

Solver Type: Fixed-Step

Fixed Step Size: 0.001

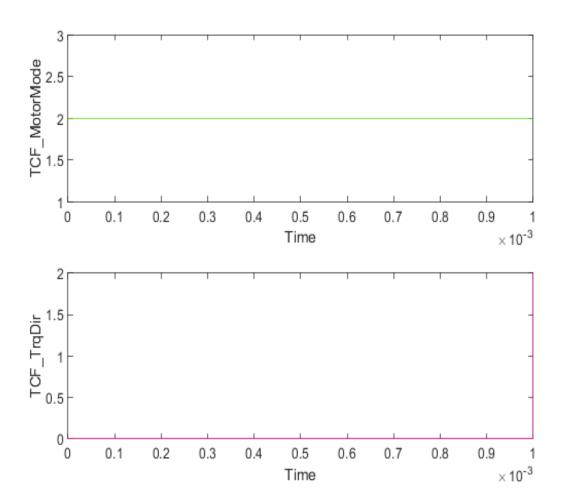
Simulation Start Time: 2021-12-20 15:31:42 Simulation Stop Time: 2021-12-20 15:31:44

Platform: PCWIN64

### **Simulation Output**

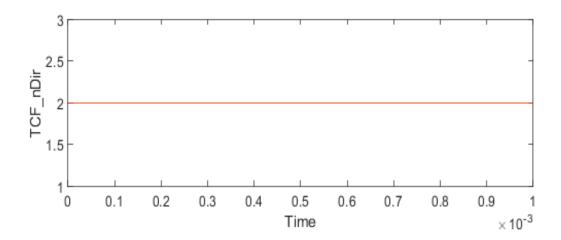
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
TCF_MotorMode	uint8			zoh	union	<u>Link</u>
TCF_TrqDir	uint8	г – <b>– – –</b> I		zoh	union	<u>Link</u>

TCF_nDir	uint8		zo	h union	<u>Link</u>
Name	Data Type	Units	Sample Time	Interp	Sync
TCF_MotorMode	uint8			zoh	union
TCF_TrqDir	uint8			zoh	union



Back to Report SummaryBack to Signal Summary

Name	Data Type	Units	Sample Time	Interp	Sync
TCF_nDir	uint8			zoh	union



### Back to Report SummaryBack to Signal Summary

## Simulation Logs:

Simulation stopped at '0.001' because there is no input data after this time point.

Symbol 'CAL\_TCF\_AgTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_HiTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_IsPwrLosCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqCAzGen\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_LdSubLqCAzMot\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIdCAx\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LdSubLqIqCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoSpdDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_LoTrqDirStop\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_MotorPole\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_NPwrLosCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_Psi\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrLossCAz\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqSpdCompa\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_PwrTrqTubeCAy\_af32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_SpeedCtlMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMax\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrMin\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TempStrPlossFact\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonCountTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonDebTrh\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqCalcMonErrRst\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqInvalid\_s16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'CAL\_TCF\_TrqTubeNCAx\_af32' is defined in <a href="SWC\_TCF\_DataDictionary.sldd">SWC\_TCF\_DataDictionary.sldd</a> and <a href="base workspace">base workspace</a>. The definition in SWC TCF DataDictionary.sldd is used.

Symbol 'CAL\_TCF\_flgUsePlossCompa\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_BwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_CircAge\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_DigtValue\_u16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwELect\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_FwGene\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorBw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorFw\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_MotorStop\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_NegvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'GLB\_TCF\_PosvTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'GLB\_TCF\_ZeroTrq\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'Tbl\_cos\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'Tbl\_sin\_table' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_HSPF\_StrrTempFlt\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycUMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycVMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_L2Sampling\_DycWMon\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_BlendTrq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_CurrAgTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_CurrAgTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Is\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_LdsubLq\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_MotorMode\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Pinput\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_Ploss\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrq1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and base workspace. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeH1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_PwrTrqTubeL1\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcErr\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_TrqCalcMonRslt\_b' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'VAR\_TCF\_TrqDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_idAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_iqAct\_f32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'VAR\_TCF\_nDir\_u8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'boolean' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'float64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base</u> <u>workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'sint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in SWC\_TCF\_DataDictionary.sldd is used.

Symbol 'uint16' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint32' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint64' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

Symbol 'uint8' is defined in <u>SWC\_TCF\_DataDictionary.sldd</u> and <u>base workspace</u>. The definition in <u>SWC\_TCF\_DataDictionary.sldd</u> is used.

**Back to Report Summary**