# Simulink Design Verifier Report simulation/Main Engine/MATLAB Function Simone Ricciardelli

# Simulink Design Verifier Report: simulation/Main Engine/MA-TLAB Function

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Data di pubblicazione 02-set-2025 13:07:27

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# **Capitolo 1. Summary**

#### **Analysis Information.**

Model: simulation

Release: R2024b Update 6

Analyzed Subsystem: simulation/Main Engine/MATLAB Function

Checksum: 3407557294 2954786634 2091006773 3909400092

Mode: Test generation

Model Representation: Built on 02-Sep-2025 13:07:06

Test Generation Target: Model

Status: Completed normally

PreProcessing Time: 12.162s

Analysis Time: 8s

**Objectives Status.** 

Number of Objectives: 1

Objectives Satisfied: 1 (100%)

## **Capitolo 2. Analysis Information**

#### **Indice**

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### **Model Information**

File: simulation

Version: 2.20

Time Stamp: Tue Sep 02 09:33:11 2025

Author:

### **Analysis Options**

Mode: TestGeneration

Rebuild Model Representation: If Change Is Detected

Test Generation Target: Model
Test Suite Optimization: Auto

Maximum Testcase Steps:10000time stepsTest Conditions:UseLocalSettingsTest Objectives:UseLocalSettingsModel Coverage Objectives:ConditionDecision

Add tests for the missing coverage: off Include Relational Boundary Objecti- off

ves:

Maximum Analysis Time: 300s
Block Replacement: off
Parameters Analysis: off
Include expected output values: off
Randomize data that do not affect the

outcome:

Additional analysis to reduce instan- on ces of rational approximation:

Save Harness: off Save Report: off

## **User Artifacts**

Coverage Data: n/a Test Data: n/a

# **Capitolo 3. Test Objectives Status**

### **Indice**

### **Objectives Satisfied**

Simulink Design Verifier generated test cases that exercise these test objectives.

#	Туре	Model Item	Description	Analy- sis Ti- me (sec)	Test Ca- se
1	Deci- sion	MATLAB Function	function torque_mis = fcn(comZ, F) <b>executed</b>	7	1[0]

## **Capitolo 4. Model Items**

### **Indice**

MATLAB Function		
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This section presents, for each object in the model defining coverage objectives, the list of objectives and their individual status at the end of the analysis. It should match the coverage report obtained from running the generated test suite on the model, either from the harness model or by using the sldvruntest command.

### **MATLAB Function**

#:	Туре	Description	Status	Test Case	
1		function torque_mis = fcn(comZ, F) executed		1 [0	]

## **Capitolo 5. Test Cases**

### **Indice**

This section contains detailed information about each generated test case.

### **Test Case 1**

#### Summary.

Length: 0 second (1 sample period)

Objectives Satisfied: 1

#### Objectives.

S	St	Ti-	Model Item	Objectives
e	ep	m		
		e		
1	L	0		1. function torque_mis = fcn(comZ, F) executed [0 ]

#### **Generated Input Data.**

Time	0
Step	1
comZ	5.9566
F	[ 1.9184 -5.4067 9.8142 ]