Coverage Report for ScpAp_SafetyModeManager_Harness2

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Analysis Information

Coverage Data Information

Collected in version	(R2025b)

Model Information

Model version	1.10
Author	IAST283
Last saved	Wed Jan 21 15:20:42 2026

Harness information

Harness model(s)	ScpAp_SafetyModeManager_Harness2
Harness model owner	ScpAp_SafetyModeManager

Simulation Optimization Options

Default parameter behavior	inlined
Block reduction	forced off
Conditional branch optimization	on

Coverage Options

Analyzed model	ScpAp_SafetyModeManager_Harness2/SWC3_Control
Logic block short circuiting	off
MCDC mode	masking

Aggregated Tests

Run	Test Name	Date
Subsystem: "/SWC3_Control"		
U1.1	Run 1	21-Jan-2026 15:24:43
U1.2	Run 1	21-Jan-2026 15:29:35
U1.3	Run 1	21-Jan-2026 15:52:01

Summary

Model Hierarchy/Complexity

		Decision	Condition	MCDC	Execution
1. SWC3_Control	2	100%	100%	100%	100%

Details

1. SubSystem block "SWC3_Control"

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	2
Decision	NA	100% (2/2) decision outcomes
Condition	NA	100% (8/8) condition outcomes
MCDC	NA	100% (2/2) conditions reversed the outcome
Execution	NA	100% (12/12) objective outcomes

Logic block "AND"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	100% (2/2) conditions reversed the outcome
Execution	100% (1/1) objective outcomes

Conditions analyzed

Description	True	False

input port 1	1498 U1.1	5 U1.1
input port 2	1499 U1.1	4 U1.1

MC/DC analysis (combinations in parentheses did not occur)

Decision/Condition	True Out	False Out
expression for output		
input port 1	**T**T U1.1	**F**T U1.2
input port 2	T**T** U1.1	T**F** U1.3

Execution analyzed

Block executed	100%
	1503/1503 U1.1

Switch block "Switch"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	Coverage
Cyclomatic Complexity	1
Decision	100% (2/2) decision outcomes
Execution	100% (1/1) objective outcomes

Decisions analyzed

logical trigger input	100%
false (output is from 3rd input port)	6/1503 U1.1
true (output is from 1st input port)	1497/1503 U1.1

Execution analyzed

Block executed	100%
	1503/1503 U1.1

DataTypeConversion block "Data Type Conversion"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	Coverage
Cyclomatic Complexity	0
Execution	100% (1/1) objective outcomes

Execution analyzed

Block executed	100%
	1503/1503 U1.1

DataTypeConversion block "Data Type Conversion1"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	Coverage
Cyclomatic Complexity	0
Execution	100% (1/1) objective outcomes

Execution analyzed

Block executed	100%
	3/3 U1.1

DataTypeConversion block "Data Type Conversion2"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	Coverage
Cyclomatic Complexity	0
Execution	100% (1/1) objective outcomes

Execution analyzed

Block executed	100%
	3/3 U1.1

DataTypeConversion block "Data Type Conversion3"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	Coverage
Cyclomatic Complexity	0
Execution	100% (1/1) objective outcomes

Execution analyzed

Block executed	100%
	1503/1503 U1.1

RelationalOperator block "Relational Operator"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
Execution	100% (1/1) objective outcomes

Conditions analyzed

Description	True	False
input1 == input2	1498 U1.1	5 U1.1

Execution analyzed

Block executed	100%
	1503/1503 U1.1

RelationalOperator block "Relational Operator1"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
Execution	100% (1/1) objective outcomes

Conditions analyzed

Description	True	False
input1 == input2	1499 U1.1	4 U1.1

Execution analyzed

Block executed	100%
	1503/1503 U1.1

Constant block "Constant1"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	Coverage
Cyclomatic Complexity	0
Execution	100% (1/1) objective outcomes

Execution analyzed

Block executed	100%
	3/3 U1.1

Constant block "Constant2"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	Coverage
Cyclomatic Complexity	0
Execution	100% (1/1) objective outcomes

Execution analyzed

Block executed	100%
	3/3 U1.1

Constant block "Constant3"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	Coverage

Cyclomatic Complexity	0
Execution	100% (1/1) objective outcomes

Execution analyzed

Block executed	100%
	3/3 U1.1

Constant block "Constant4"

Justify or Exclude

Parent: ScpAp_SafetyModeManager_Harness2/SWC3_Control

Metric	**Coverage**
Cyclomatic Complexity	0
Execution	100% (1/1) objective outcomes

Execution analyzed

Block executed	100%
	3/3 U1.1