

Coverage Report for Hilly_Condition

Table of Contents

- 1. [Analysis Information](#)
- 2. [Tests](#)
- 3. [Summary](#)
- 4. [Details](#)

Analysis Information

Coverage Data Information

Collected in version (R2021a)

Model Information

Model version 1.79
Author hp
Last saved Thu Aug 22 23:38:56 2024

Harness information

Harness model(s) Hilly_Condition_Harness_MIL
Harness model owner Hilly_Condition

Simulation Optimization Options

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

Coverage Options

Analyzed model Hilly_Condition
Logic block short circuiting off

Tests

Test	Started execution	Ended execution
------	-------------------	-----------------

Summary

Model Hierarchy/Complexity	Run 2			
	Decision		Execution	
1. Hilly_Condition	9	100% <div></div>	100% <div></div>	
2. . . . HillyCond	8	100% <div></div>	100% <div></div>	
3. HillyCond	7	100% <div></div>	100% <div></div>	
4. HillyCond_LoHi_SlfVehSpd	2	100% <div></div>	100% <div></div>	
5. HillyCond_OppVeh	1	100% <div></div>	100% <div></div>	
6. HillyCond_PrlVeh	1	100% <div></div>	100% <div></div>	
7. SlfVehSteerAng	2	100% <div></div>	100% <div></div>	

Details

1. Model "Hilly_Condition"

Child Systems:	HillyCond	
Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	9
Decision	NA	100% (12/12) decision outcomes
Execution	NA	100% (43/43) objective outcomes

2. SubSystem block "[HillyCond](#)"

Justify or Exclude		
Parent:	/Hilly_Condition	
Child Systems:	HillyCond	
Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	8
Decision	NA	100% (12/12) decision outcomes
Execution	NA	100% (43/43) objective outcomes

3. SubSystem block "[HillyCond](#)"

Justify or Exclude		
Parent:	Hilly_Condition/HillyCond	
Child Systems:	HillyCond_LoHi_SlfVehSpd , HillyCond_OppVeh , HillyCond_PrlVeh ,	

SlfVehSteerAng

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	7
Decision	NA	100% (12/12) decision outcomes
Execution	NA	100% (43/43) objective outcomes

Full Coverage

Model Object	Metric
Logic block " AND "	Execution
DataTypeConversion block " Data Type Conversion1 "	Execution
DataTypeConversion block " Data Type Conversion2 "	Execution
DataTypeConversion block " Data Type Conversion3 "	Execution
DataTypeConversion block " Data Type Conversion4 "	Execution

4. SubSystem block "[HillyCond_LoHi_SlfVehSpd](#)"

Justify or Exclude

Parent: [Hilly_Condition/HillyCond/HillyCond](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	2
Decision	NA	100% (4/4) decision outcomes
Execution	NA	100% (10/10) objective outcomes

Full Coverage

Model Object	Metric
Logic block " OR1 "	Execution
Switch block " Switch "	Decision, Execution
Switch block " Switch1 "	Decision, Execution
DataTypeConversion block " Data Type Conversion "	Execution
DataTypeConversion block " Data Type Conversion1 "	Execution
RelationalOperator block " Relational Operator "	Execution
Constant block " Constant "	Execution

Constant block " Constant1 "	Execution
Constant block " Constant2 "	Execution
Constant block " Constant3 "	Execution

5. SubSystem block "[HillyCond_OppVeh](#)"

[Justify or Exclude](#)

Parent: [Hilly_Condition/HillyCond/HillyCond](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (5/5) objective outcomes

Full Coverage

Model Object	Metric
Switch block " Switch "	Decision, Execution
RelationalOperator block " Relational Operator "	Execution
Constant block " Constant "	Execution
Constant block " Constant1 "	Execution
Constant block " Constant2 "	Execution

6. SubSystem block "[HillyCond_PrlVeh](#)"

[Justify or Exclude](#)

Parent: [Hilly_Condition/HillyCond/HillyCond](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (14/14) objective outcomes

Full Coverage

Model Object	Metric
Logic block " AND1 "	Execution

Logic block " AND2 "	Execution
Logic block " AND3 "	Execution
Switch block " Switch1 "	Decision, Execution
RelationalOperator block " Relational Operator "	Execution
RelationalOperator block " Relational Operator1 "	Execution
RelationalOperator block " Relational Operator2 "	Execution
RelationalOperator block " Relational Operator3 "	Execution
Constant block " Constant "	Execution
Constant block " Constant1 "	Execution
Constant block " Constant2 "	Execution
Constant block " Constant3 "	Execution
Constant block " Constant4 "	Execution
Constant block " Constant5 "	Execution

7. SubSystem block "[SlfVehSteerAng](#)"

[Justify or Exclude](#)

Parent: [Hilly_Condition/HillyCond/HillyCond](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	2
Decision	NA	100% (4/4) decision outcomes
Execution	NA	100% (9/9) objective outcomes

Full Coverage

Model Object	Metric
Switch block " Switch "	Decision, Execution
Switch block " Switch1 "	Decision, Execution
RelationalOperator block " Relational Operator "	Execution
RelationalOperator block " Relational Operator1 "	Execution
Constant block " Constant "	Execution
Constant block " Constant1 "	Execution
Constant block " Constant3 "	Execution
Constant block " Constant4 "	Execution

Constant block "[Constant5](#)"

Execution