

# Coverage Report for Eas\_Integrated\_harness

## Table of Contents

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

## Analysis Information

### Coverage Data Information

Collected in version (R2021a)

### Model Information

Model version 1.48  
Author Admin  
Last saved Mon Jul 25 12:55:22 2022

### Simulation Optimization Options

Default parameter behavior inlined  
Block reduction off  
Conditional branch optimization on

### Coverage Options

Analyzed model Eas\_Integrated\_harness  
Logic block short circuiting off

### Aggregated Tests

Run	Test Name	Date
Model: "Eas_Integrated_harness"		
T1	<a href="#">Run 4</a>	25-Jul-2022 12:56:19
T2	<a href="#">Run 7</a>	25-Jul-2022 13:13:07

# Summary

## Model Hierarchy/Complexity

Execution		
1. <a href="#">Eas_Integrated_harness</a>	19	100% <div></div>
2. ... <a href="#">Size-Type</a>		100% <div></div>
3. ... <a href="#">Test_Unit (copied from Eas_Integrated)</a>	18	100% <div></div>
4. .... <a href="#">Eas_Subsystem</a>	18	100% <div></div>
5. .... <a href="#">DPF_Subsystem</a>	6	100% <div></div>
6. .... <a href="#">Auto_Regeneration</a>	1	100% <div></div>
7. .... <a href="#">Manual_Regn_Subsystem</a>	2	100% <div></div>
8. .... <a href="#">Post_Regn_Subsystem</a>	2	100% <div></div>
9. .... <a href="#">Regn_Display_Subsystem</a>		100% <div></div>
10. .... <a href="#">Service_Regeneration</a>		100% <div></div>
11. .... <a href="#">SCR_Regeneration_Subsystem</a>	11	100% <div></div>
12. .... <a href="#">Adblue_Injection_System</a>	2	100% <div></div>
13. .... <a href="#">Adblue_Level2</a>	2	100% <div></div>
14. .... <a href="#">Scr_Regeneration_Parameter</a>	6	100% <div></div>
15. .... <a href="#">Adblue_Level_indication</a>	2	100% <div></div>
16. .... <a href="#">Adblue_Quality_indication</a>	1	100% <div></div>
17. .... <a href="#">Scr_temp_indication</a>	2	100% <div></div>

# Details

## 1. Model "Eas\_Integrated\_harness"

Child Systems:	<a href="#">Size-Type</a> , <a href="#">Test_Unit (copied from Eas_Integrated)</a>	
Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (111/111) objective outcomes

## 2. SubSystem block "[Size-Type](#)"

<a href="#">Justify or Exclude</a>		
Parent:	<a href="#">/Eas_Integrated_harness</a>	
Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (32/32) objective outcomes

## Full Coverage

<b>Model Object</b>	<b>Metric</b>
DataTypeConversion block " <a href="#">Cast1</a> "	Execution
DataTypeConversion block " <a href="#">Cast10</a> "	Execution
DataTypeConversion block " <a href="#">Cast11</a> "	Execution
DataTypeConversion block " <a href="#">Cast12</a> "	Execution
DataTypeConversion block " <a href="#">Cast13</a> "	Execution
DataTypeConversion block " <a href="#">Cast14</a> "	Execution
DataTypeConversion block " <a href="#">Cast15</a> "	Execution
DataTypeConversion block " <a href="#">Cast16</a> "	Execution
DataTypeConversion block " <a href="#">Cast2</a> "	Execution
DataTypeConversion block " <a href="#">Cast3</a> "	Execution
DataTypeConversion block " <a href="#">Cast4</a> "	Execution
DataTypeConversion block " <a href="#">Cast5</a> "	Execution
DataTypeConversion block " <a href="#">Cast6</a> "	Execution
DataTypeConversion block " <a href="#">Cast7</a> "	Execution
DataTypeConversion block " <a href="#">Cast8</a> "	Execution
DataTypeConversion block " <a href="#">Cast9</a> "	Execution
RateTransition block " <a href="#">Sync1</a> "	Execution
RateTransition block " <a href="#">Sync10</a> "	Execution
RateTransition block " <a href="#">Sync11</a> "	Execution
RateTransition block " <a href="#">Sync12</a> "	Execution
RateTransition block " <a href="#">Sync13</a> "	Execution
RateTransition block " <a href="#">Sync14</a> "	Execution
RateTransition block " <a href="#">Sync15</a> "	Execution
RateTransition block " <a href="#">Sync16</a> "	Execution
RateTransition block " <a href="#">Sync2</a> "	Execution
RateTransition block " <a href="#">Sync3</a> "	Execution
RateTransition block " <a href="#">Sync4</a> "	Execution
RateTransition block " <a href="#">Sync5</a> "	Execution
RateTransition block " <a href="#">Sync6</a> "	Execution
RateTransition block " <a href="#">Sync7</a> "	Execution
RateTransition block " <a href="#">Sync8</a> "	Execution

### 3. SubSystem block "[Test\\_Unit \(copied from Eas\\_Integrated\)](#)"

[Justify or Exclude](#)Parent: [/Eas\\_Integrated\\_harness](#)Child Systems: [Eas\\_Subsystem](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (79/79) objective outcomes

### 4. SubSystem block "[Eas\\_Subsystem](#)"

[Justify or Exclude](#)Parent: [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)](#)Child Systems: [DPF\\_Subsystem](#), [SCR\\_Regeneration\\_Subsystem](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (79/79) objective outcomes

### 5. SubSystem block "[DPF\\_Subsystem](#)"

[Justify or Exclude](#)Parent: [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)/Eas\\_Subsystem](#)Child Systems: [Auto\\_Regeneration](#), [Manual\\_Regn\\_Subsystem](#), [Post\\_Regn\\_Subsystem](#), [Regn\\_Display\\_Subsystem](#), [Service\\_Regeneration](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (48/48) objective outcomes

### 6. SubSystem block "[Auto\\_Regeneration](#)"

[Justify or Exclude](#)Parent: [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)/Eas\\_Subsystem/DPF\\_Subsystem](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (14/14) objective outcomes

**Full Coverage**

Model Object	Metric
Logic block " <a href="#">AND</a> "	Execution
Logic block " <a href="#">AND1</a> "	Execution
Logic block " <a href="#">AND2</a> "	Execution
Logic block " <a href="#">AND3</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator1</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator2</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator3</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator4</a> "	Execution
Constant block " <a href="#">Constant</a> "	Execution
Constant block " <a href="#">Constant1</a> "	Execution
Constant block " <a href="#">Constant2</a> "	Execution
Constant block " <a href="#">Constant3</a> "	Execution
Constant block " <a href="#">Constant4</a> "	Execution

## 7. SubSystem block "[Manual\\_Regn\\_Subsystem](#)"

### [Justify or Exclude](#)

**Parent:** [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)/Eas\\_Subsystem/DPF\\_Subsystem](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (7/7) objective outcomes

### Full Coverage

Model Object	Metric
Logic block " <a href="#">AND</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator1</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator2</a> "	Execution
Constant block " <a href="#">Constant</a> "	Execution
Constant block " <a href="#">Constant1</a> "	Execution

Constant block "[Constant2](#)"

Execution

## 8. SubSystem block "[Post\\_Regn\\_Subsystem](#)"

[Justify or Exclude](#)

**Parent:** [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)/Eas\\_Subsystem/DPF\\_Subsystem](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (20/20) objective outcomes

### Full Coverage

Model Object	Metric
Logic block " <a href="#">AND</a> "	Execution
Logic block " <a href="#">AND1</a> "	Execution
Logic block " <a href="#">AND2</a> "	Execution
Logic block " <a href="#">AND3</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator1</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator2</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator3</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator4</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator5</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator6</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator7</a> "	Execution
Constant block " <a href="#">Constant</a> "	Execution
Constant block " <a href="#">Constant1</a> "	Execution
Constant block " <a href="#">Constant2</a> "	Execution
Constant block " <a href="#">Constant3</a> "	Execution
Constant block " <a href="#">Constant4</a> "	Execution
Constant block " <a href="#">Constant5</a> "	Execution
Constant block " <a href="#">Constant6</a> "	Execution
Constant block " <a href="#">Constant7</a> "	Execution

## 9. SubSystem block "[Regn\\_Display\\_Subsystem](#)"

[Justify or Exclude](#)

**Parent:** [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)/Eas\\_Subsystem/DPF\\_Subsystem](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (5/5) objective outcomes

### Full Coverage

Model Object	Metric
Logic block " <a href="#">AND</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator1</a> "	Execution
Constant block " <a href="#">Constant</a> "	Execution
Constant block " <a href="#">Constant1</a> "	Execution

## 10. SubSystem block "[Service\\_Regeneration](#)"

[Justify or Exclude](#)

**Parent:** [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)/Eas\\_Subsystem/DPF\\_Subsystem](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (2/2) objective outcomes

### Full Coverage

Model Object	Metric
RelationalOperator block " <a href="#">Relational_Operator3</a> "	Execution
Constant block " <a href="#">Constant3</a> "	Execution

## 11. SubSystem block "[SCR\\_Regeneration\\_Subsystem](#)"

[Justify or Exclude](#)

**Parent:** [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)/Eas\\_Subsystem](#)

**Child Systems:**        [Adblue\\_Injection\\_System](#), [Adblue\\_Level2](#), [Scr\\_Regeneration\\_Parameter](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Execution	NA	100% (31/31) objective outcomes

## 12. SubSystem block "[Adblue\\_Injection\\_System](#)"

[Justify or Exclude](#)

**Parent:**        [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)/Eas\\_Subsystem/SCR\\_Regeneration\\_Subsystem](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Execution	NA	100% (11/11) objective outcomes

### Full Coverage

<b>Model Object</b>	<b>Metric</b>
Gain block " <a href="#">Gain</a> "	Execution
Gain block " <a href="#">Gain1</a> "	Execution
Product block " <a href="#">Divide</a> "	Execution
Product block " <a href="#">Product</a> "	Execution
Product block " <a href="#">Product1</a> "	Execution
Product block " <a href="#">Product2</a> "	Execution
Sqrt block " <a href="#">Square_Root</a> "	Execution
Constant block " <a href="#">Constant</a> "	Execution
Constant block " <a href="#">Constant1</a> "	Execution
Constant block " <a href="#">Constant2</a> "	Execution
Constant block " <a href="#">Constant3</a> "	Execution

## 13. SubSystem block "[Adblue\\_Level2](#)"

[Justify or Exclude](#)

**Parent:**        [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)/Eas\\_Subsystem/SCR\\_Regeneration\\_Subsystem](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Execution	NA	100% (3/3) objective outcomes



## Full Coverage

Model Object	Metric
Switch block " <a href="#">Switch2</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator1</a> "	Execution
Constant block " <a href="#">Tank_Condition</a> "	Execution

## 14. SubSystem block "[Scr\\_Regeneration\\_Parameter](#)"

### [Justify or Exclude](#)

Parent:	<a href="#">Eas_Integrated_harness/Test_Unit (copied from Eas_Integrated)/Eas_Subsystem/SCR_Regeneration_Subsystem</a>
Child Systems:	<a href="#">Adblue_Level_indication</a> , <a href="#">Adblue_Quality_indication</a> , <a href="#">Scr_temp_indication</a>

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (17/17) objective outcomes

## Full Coverage

Model Object	Metric
Logic block " <a href="#">AND</a> "	Execution
Logic block " <a href="#">AND2</a> "	Execution

## 15. SubSystem block "[Adblue\\_Level\\_indication](#)"

### [Justify or Exclude](#)

Parent:	<a href="#">Eas_Integrated_harness/Test_Unit (copied from Eas_Integrated)/Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter</a>
---------	---

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (5/5) objective outcomes

## Full Coverage

Model Object	Metric
Switch block " <a href="#">Switch</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator1</a> "	Execution

Constant block " <a href="#">Constant</a> "	Execution
Constant block " <a href="#">Constant1</a> "	Execution
Constant block " <a href="#">Constant2</a> "	Execution

## 16. SubSystem block "[Addblue\\_Quality\\_indication](#)"

### [Justify or Exclude](#)

**Parent:** [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)/Eas\\_Subsystem/SCR\\_Regeneration\\_Subsystem/Scr\\_Regeneration\\_Parameter](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (5/5) objective outcomes

### Full Coverage

Model Object	Metric
Logic block " <a href="#">AND</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator1</a> "	Execution
Constant block " <a href="#">Constant</a> "	Execution
Constant block " <a href="#">Constant1</a> "	Execution

## 17. SubSystem block "[Scr\\_temp\\_indication](#)"

### [Justify or Exclude](#)

**Parent:** [Eas\\_Integrated\\_harness/Test\\_Unit \(copied from Eas\\_Integrated\)/Eas\\_Subsystem/SCR\\_Regeneration\\_Subsystem/Scr\\_Regeneration\\_Parameter](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Execution	NA	100% (5/5) objective outcomes

### Full Coverage

Model Object	Metric
Switch block " <a href="#">Switch</a> "	Execution
RelationalOperator block " <a href="#">Relational_Operator</a> "	Execution
Constant block " <a href="#">Constant1</a> "	Execution

Constant block "[Constant2](#)"

Execution

Constant block "[scr\\_temp](#)"

Execution