

# Coverage Report for FBFunctions

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## Analysis Information

### Model Information

Model version	1.76
Author	hiterd
Last saved	Tue Feb 05 23:11:03 2019

### Harness information

Harness model(s)	FBFunctions_Harness_MIN
Harness model owner	FBFunctions

### Simulation Optimization Options

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

### Coverage Options

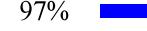
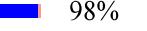
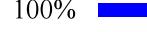
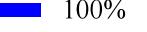
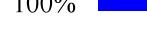
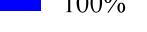
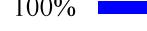
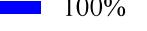
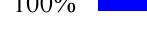
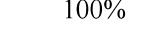
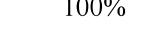
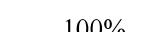
Analyzed model	FBFunctions_Harness_MIN/MIN_DUPLEX
Logic block short circuiting	off
MCDC mode	masking

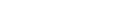
## Tests

### Test# Started execution      Ended execution

Test 1	05-Feb-2019 23:12:41	05-Feb-2019 23:20:59
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# Summary

Model Hierarchy/Complexity	Test 1					Execution
	Decision	Condition	MCDC			
1. <a href="#">MIN_DUPLEX</a>	30 97%		98%		62%	 99%
2. .... <a href="#">MIN</a>	14 100%		100%		67%	 100%
3. .... <a href="#">2_val_shift_register</a>	4 NA	NA	NA	NA	NA	100%
4. .... <a href="#">Data_1</a>	1 NA	NA	NA	NA	NA	100%
5. .... <a href="#">Unit Delay Enabled Resettable</a>	1 NA	NA	NA	NA	NA	100%
6. .... <a href="#">Data_2</a>	1 NA	NA	NA	NA	NA	100%
7. .... <a href="#">Unit Delay Enabled Resettable</a>	1 NA	NA	NA	NA	NA	100%
8. .... <a href="#">Type_1</a>	1 NA	NA	NA	NA	NA	100%
9. .... <a href="#">Unit Delay Enabled Resettable</a>	1 NA	NA	NA	NA	NA	100%
10. .... <a href="#">Type_2</a>	1 NA	NA	NA	NA	NA	100%
11. .... <a href="#">Unit Delay Enabled Resettable</a>	1 NA	NA	NA	NA	NA	100%
12. .... <a href="#">Q_type</a>	NA	NA	NA	NA	NA	100%
13. .... <a href="#">Q_LT</a>	2 100%		100%		NA	100%
14. .... <a href="#">fractionalMask</a>	NA	NA	NA	NA	NA	100%
15. .... <a href="#">fractionalMask1</a>	NA	NA	NA	NA	NA	100%
16. .... <a href="#">TypeCheck2T2D</a>	1 100%		100%		20%	 100%
17. .... <a href="#">code_type_bit</a>	NA	NA	NA	NA	NA	100%
18. .... <a href="#">cond_generate_error_code</a>	1 100%		NA	NA	NA	100%
19. .... <a href="#">code_no_error</a>	NA	NA	NA	NA	NA	100%
20. .... <a href="#">isType1</a>	NA	100%		NA	NA	100%
21. .... <a href="#">isType</a>	NA	100%		NA	NA	100%
22. .... <a href="#">typeMask</a>	NA	NA	NA	NA	NA	100%
23. .... <a href="#">isType1</a>	NA	100%		NA	NA	100%
24. .... <a href="#">typeMask</a>	NA	NA	NA	NA	NA	100%
25. .... <a href="#">isType2</a>	NA	100%		NA	NA	100%
26. .... <a href="#">isType</a>	NA	100%		NA	NA	100%
27. .... <a href="#">typeMask</a>	NA	NA	NA	NA	NA	100%
28. .... <a href="#">isType1</a>	NA	100%		NA	NA	100%
29. .... <a href="#">typeMask</a>	NA	NA	NA	NA	NA	100%
30. .... <a href="#">isTypeMatch2</a>	NA	100%		NA	NA	100%
31. .... <a href="#">typeMask</a>	NA	NA	NA	NA	NA	100%
32. .... <a href="#">typeMask1</a>	NA	NA	NA	NA	NA	100%

33.....	<a href="#">Unit Delay Enabled Resettable Synchronous8</a>	1	NA	NA	NA	100%			
34.....	<a href="#">Unit Delay Enabled Resettable</a>	1	NA	NA	NA	100%			
35.....	<a href="#">Unit Delay Enabled Resettable Synchronous9</a>	1	NA	NA	NA	100%			
36.....	<a href="#">Unit Delay Enabled Resettable</a>	1	NA	NA	NA	100%			
37.....	<a href="#">int type</a>		NA	NA	NA	100%			
38.....	<a href="#">int type1</a>		NA	NA	NA	100%			
39.....	<a href="#">isType</a>		NA	100%		NA	100%		
40.....	<a href="#">typeMask</a>		NA	NA	NA	100%			
41....	<a href="#">MIN1</a>	14	100%		100%		67% 	100%	
42.....	<a href="#">2_val_shift_register</a>	4	NA	NA	NA	100%			
43.....	<a href="#">Data 1</a>	1	NA	NA	NA	100%			
44.....	<a href="#">Unit Delay Enabled Resettable</a>	1	NA	NA	NA	100%			
45.....	<a href="#">Data 2</a>	1	NA	NA	NA	100%			
46.....	<a href="#">Unit Delay Enabled Resettable</a>	1	NA	NA	NA	100%			
47.....	<a href="#">Type 1</a>	1	NA	NA	NA	100%			
48.....	<a href="#">Unit Delay Enabled Resettable</a>	1	NA	NA	NA	100%			
49.....	<a href="#">Type 2</a>	1	NA	NA	NA	100%			
50.....	<a href="#">Unit Delay Enabled Resettable</a>	1	NA	NA	NA	100%			
51.....	<a href="#">Q type</a>		NA	NA	NA	100%			
52.....	<a href="#">Q_LT</a>	2	100%		100%		NA	100%	
53.....	<a href="#">fractionalMask</a>		NA	NA	NA	100%			
54.....	<a href="#">fractionalMask1</a>		NA	NA	NA	100%			
55.....	<a href="#">TypeCheck2T2D</a>	1	100%		100%		20% 	100%	
56.....	<a href="#">code_type_bit</a>		NA	NA	NA	100%			
57.....	<a href="#">cond_generate_error_code</a>	1	100%		NA	NA	100%		
58.....	<a href="#">code_no_error</a>		NA	NA	NA	100%			
59.....	<a href="#">isType1</a>		NA	100%		NA	100%		
60.....	<a href="#">isType</a>		NA	100%		NA	100%		
61.....	<a href="#">typeMask</a>		NA	NA	NA	100%			
62.....	<a href="#">isType1</a>		NA	100%		NA	100%		
63.....	<a href="#">typeMask</a>		NA	NA	NA	100%			
64.....	<a href="#">isType2</a>		NA	100%		NA	100%		
65.....	<a href="#">isType</a>		NA	100%		NA	100%		
66.....	<a href="#">typeMask</a>		NA	NA	NA	100%			
67.....	<a href="#">isType1</a>		NA	100%		NA	100%		

68..... <a href="#">typeMask</a>	NA	NA	NA	100%			
69..... <a href="#">isTypeMatch2</a>	NA	100%		NA	100%		
70..... <a href="#">typeMask</a>	NA	NA	NA	100%			
71..... <a href="#">typeMask1</a>	NA	NA	NA	100%			
72..... <a href="#">Unit Delay Enabled Resettable Synchronous8</a>	1 NA	NA	NA	100%			
73..... <a href="#">Unit Delay Enabled Resettable</a>	1 NA	NA	NA	100%			
74..... <a href="#">Unit Delay Enabled Resettable Synchronous9</a>	1 NA	NA	NA	100%			
75..... <a href="#">Unit Delay Enabled Resettable</a>	1 NA	NA	NA	100%			
76..... <a href="#">int type</a>	NA	NA	NA	100%			
77..... <a href="#">int type1</a>	NA	NA	NA	100%			
78..... <a href="#">isType</a>	NA	100%		NA	100%		
79..... <a href="#">typeMask</a>	NA	NA	NA	100%			
80.... <a href="#">State Comparator</a>	1 50%		100%		NA	80%	
81..... <a href="#">Compare To Zero</a>	NA	100%		NA	100%		
82.... <a href="#">combine_error_codes</a>	NA	NA	NA	100%			

## Details

### 1. SubSystem block "[MIN\\_DUPLEX](#)"

**Child Systems:** [MIN](#), [MIN1](#), [State Comparator](#), [combine\\_error\\_codes](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	30
Condition	NA	98% (130/132) condition outcomes
Decision	NA	97% (33/34) decision outcomes
MCDC	NA	62% (16/26) conditions reversed the outcome
Execution	NA	99% (114/115) objective outcomes

### Logic block "[Logical Operator](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX](#)

**Uncovered Links:**

Metric	Coverage
Cyclomatic Complexity	0
Condition	50% (2/4) condition outcomes

MCDC Execution	0% (0/2) conditions reversed the outcome 100% (1/1) objective outcomes
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### Conditions analyzed

Description	True	False
input port 1	209	0 
input port 2	209	0 

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

Decision/Condition	True Out	False Out
expression for output		
input port 1	TT	(FT)
input port 2	TT	(TF)

## Full Coverage

Model Object	Metric
RelationalOperator block " <a href="#">Relational Operator</a> "	Condition, Execution
Constant block " <a href="#">Num Ins</a> "	Execution
Constant block " <a href="#">Num Outs</a> "	Execution
Constant block " <a href="#">fb_num_constant</a> "	Execution

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

### Justify or Exclude

<b>Parent:</b>	<a href="#">FBFunctions_Harness_MIN/MIN_DUPLEX</a>
<b>Child Systems:</b>	<a href="#">2_val_shift_register</a> , <a href="#">Q_type</a> , <a href="#">Q_LT</a> , <a href="#">TypeCheck2T2D</a> , <a href="#">Unit Delay Enabled Resettable Synchronous8</a> , <a href="#">Unit Delay Enabled Resettable Synchronous9</a> , <a href="#">int type</a> , <a href="#">int type1</a> , <a href="#">isType</a>

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	14
Condition	NA	100% (56/56) condition outcomes
Decision	NA	100% (16/16) decision outcomes

MCDC	NA	67% (8/12) conditions reversed the outcome
Execution	NA	100% (52/52) objective outcomes

### Logic block "Logical Operator3"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	<a href="#">see Logical Operator</a>
Execution	100% (1/1) objective outcomes

### Full Coverage

#### Model Object

Logic block "[Logical Operator](#)"

Logic block "[Logical Operator1](#)"

Logic block "[Logical Operator2](#)"

Switch block "[Switch](#)"

Switch block "[Switch1](#)"

Switch block "[Switch2](#)"

Switch block "[Switch5](#)"

Switch block "[Switch6](#)"

RelationalOperator block "[Relational Operator1](#)"

Constant block "[Constant](#)"

Constant block "[Constant1](#)"

#### Metric

Condition, MCDC, Execution

Condition, MCDC, Execution

Condition, MCDC, Execution

Decision, Execution

Decision, Execution

Decision, Execution

Decision, Execution

Decision, Execution

Condition, Execution

Execution

Execution

### 3. SubSystem block "2\_val\_shift\_register"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN](#)

**Child Systems:** [Data 1](#), [Data 2](#), [Type 1](#), [Type 2](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	4
Execution	NA	100% (4/4) objective outcomes

#### 4. SubSystem block "Data 1"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/2\\_val\\_shift\\_register](#)  
**Child Systems:** [Unit Delay Enabled Resettable](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	1
Execution	NA	100% (1/1) objective outcomes

#### 5. SubSystem block "Unit Delay Enabled Resettable"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/2\\_val\\_shift\\_register/Data 1](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

**Full Coverage**

<b>Model Object</b>	<b>Metric</b>
Delay block " <a href="#">Enabled Resettable Delay</a> "	Execution

#### 6. SubSystem block "Data 2"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/2\\_val\\_shift\\_register](#)  
**Child Systems:** [Unit Delay Enabled Resettable](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	1

Execution	NA	100% (1/1) objective outcomes
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## 7. SubSystem block "Unit Delay Enabled Resettable"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/2\\_val\\_shift\\_register/Data2](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

### Full Coverage

Model Object	Metric
Delay block " <a href="#"><u>Enabled Resettable Delay</u></a> "	Execution

## 8. SubSystem block "Type 1"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/2\\_val\\_shift\\_register](#)

**Child Systems:** [Unit Delay Enabled Resettable](#)

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

## 9. SubSystem block "Unit Delay Enabled Resettable"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/2\\_val\\_shift\\_register/Type1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

## Full Coverage

Model Object	Metric
Delay block " <a href="#">Enabled Resettable Delay</a> "	Execution

## 10. SubSystem block "[Type 2](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/2\\_val\\_shift\\_register](#)  
**Child Systems:** [Unit Delay Enabled Resettable](#)

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

## 11. SubSystem block "[Unit Delay Enabled Resettable](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/2\\_val\\_shift\\_register/Type 2](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

## Full Coverage

Model Object	Metric
Delay block " <a href="#">Enabled Resettable Delay</a> "	Execution

## 12. SubSystem block "[Q type](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0

Execution	NA	100% (1/1) objective outcomes
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## Full Coverage

Model Object	Metric
Constant block " <a href="#">type1</a> "	Execution

## 13. SubSystem block "[Q\\_LT](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN](#)  
**Child Systems:** [fractionalMask](#), [fractionalMask1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	2
Condition	NA	100% (6/6) condition outcomes
Decision	NA	100% (4/4) decision outcomes
Execution	NA	100% (9/9) objective outcomes

## Full Coverage

Model Object	Metric
Switch block " <a href="#">Switch1</a> "	Decision, Execution
Switch block " <a href="#">Switch3</a> "	Decision, Execution
RelationalOperator block " <a href="#">Relational Operator1</a> "	Condition, Execution
RelationalOperator block " <a href="#">Relational Operator3</a> "	Condition, Execution
RelationalOperator block " <a href="#">sgn</a> "	Condition, Execution
Constant block " <a href="#">sgn1</a> "	Execution
Constant block " <a href="#">sgn2</a> "	Execution

## 14. SubSystem block "[fractionalMask](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/Q\\_LT](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	0
Execution	NA	100% (1/1) objective outcomes

## Full Coverage

<b>Model Object</b>	<b>Metric</b>
S-Function block " <a href="#">Apply Type Mask</a> "	Execution

## 15. SubSystem block "[fractionalMask1](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/Q\\_LT](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	0
Execution	NA	100% (1/1) objective outcomes

## Full Coverage

<b>Model Object</b>	<b>Metric</b>
S-Function block " <a href="#">Apply Type Mask</a> "	Execution

## 16. SubSystem block "[TypeCheck2T2D](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN](#)

**Child Systems:** [code\\_type\\_bit](#), [cond\\_generate\\_error\\_code](#), [isType1](#), [isType2](#), [isTypeMatch2](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	1
Condition	NA	100% (30/30) condition outcomes
Decision	NA	100% (2/2) decision outcomes
MCDC	NA	20% (1/5) conditions reversed the outcome
Execution	NA	100% (20/20) objective outcomes

## Logic block "Logical Operator"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
MCDC	<a href="#">see Logical Operator1</a>
Execution	100% (1/1) objective outcomes

## Logic block "Logical Operator1"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D](#)

**Uncovered Links:**

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (6/6) condition outcomes
MCDC	20% (1/5) conditions reversed the outcome
Execution	100% (1/1) objective outcomes

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

[Includes 6 blocks](#)

Decision/Condition	True Out	False Out
$(\sim C1 \parallel \sim(C2 \parallel C3)) \parallel \sim(C4 \parallel C5)$		
C1 (Logical Operator In1)	<b>F</b> TFFF	<b>T</b> TFTF
C2 (Logical Operator In1)	(TFFTF)	<b>T</b> TFTF
C3 (Logical Operator In2)	(TFFTT)	<b>T</b> FT <b>F</b> T
C4 (Logical Operator In1)	(TTFFF)	TTFT <b>F</b>
C5 (Logical Operator In2)	(TTTFF)	TFTFT <b>T</b>

## Logic block "Logical Operator2"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
MCDC	<a href="#">see Logical Operator1</a>
Execution	100% (1/1) objective outcomes

## Logic block "[Logical Operator3](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
MCDC	<a href="#">see Logical Operator1</a>
Execution	100% (1/1) objective outcomes

## 17. SubSystem block "[code\\_type\\_bit](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D](#)

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

## Full Coverage

**Model Object**

Constant block "[type1](#)"

**Metric**

Execution

## 18. SubSystem block "[cond\\_generate\\_error\\_code](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D](#)

**Child Systems:** [code\\_no\\_error](#)

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

## Full Coverage

<b>Model Object</b>	<b>Metric</b>
Switch block " <a href="#">Switch</a> "	Decision, Execution

## 19. SubSystem block "[code\\_no\\_error](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/cond\\_generate\\_error\\_code](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	0
Execution	NA	100% (1/1) objective outcomes

## Full Coverage

<b>Model Object</b>	<b>Metric</b>
Constant block " <a href="#">type1</a> "	Execution

## 20. SubSystem block "[isType1](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D](#)

**Child Systems:** [isType](#), [isType1](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	0
Condition	NA	100% (8/8) condition outcomes
Execution	NA	100% (5/5) objective outcomes

## Logic block "[Logical Operator](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isType1](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	<a href="#">see Logical Operator1</a>
Execution	100% (1/1) objective outcomes

## 21. SubSystem block "[isType](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isType1](#)

**Child Systems:** [typeMask](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (2/2) condition outcomes
Execution	NA	100% (2/2) objective outcomes

## Full Coverage

**Model Object**

**Metric**

RelationalOperator block "[Relational Operator1](#)" Condition, Execution

## 22. SubSystem block "[typeMask](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isType1/isType](#)

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

## Full Coverage

**Model Object**S-Function block "[Apply Type Mask](#)"**Metric**

Execution

**23. SubSystem block "[isType1](#)"**Justify or Exclude**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isType1](#)**Child Systems:** [typeMask](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	0
Condition	NA	100% (2/2) condition outcomes
Execution	NA	100% (2/2) objective outcomes

**Full Coverage****Model Object****Metric**RelationalOperator block "[Relational Operator1](#)" Condition, Execution**24. SubSystem block "[typeMask](#)"**Justify or Exclude**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isType1/isType1](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	0
Execution	NA	100% (1/1) objective outcomes

**Full Coverage****Model Object****Metric**S-Function block "[Apply Type Mask](#)"

Execution

**25. SubSystem block "[isType2](#)"**

## Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D](#)

**Child Systems:** [isType](#), [isType1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (8/8) condition outcomes
Execution	NA	100% (5/5) objective outcomes

## Logic block "[Logical Operator](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isType2](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	<a href="#">see Logical Operator1</a>
Execution	100% (1/1) objective outcomes

## 26. SubSystem block "[isType](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isType2](#)

**Child Systems:** [typeMask](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (2/2) condition outcomes
Execution	NA	100% (2/2) objective outcomes

## Full Coverage

### Model Object

### Metric

RelationalOperator block "[Relational Operator1](#)" Condition, Execution

## 27. SubSystem block "[typeMask](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isType2/isType](#)

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

### **Full Coverage**

#### **Model Object**

S-Function block "[Apply Type Mask](#)"

#### **Metric**

Execution

## **28. SubSystem block "[isType1](#)"**

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isType2](#)

**Child Systems:** [typeMask](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (2/2) condition outcomes
Execution	NA	100% (2/2) objective outcomes

### **Full Coverage**

#### **Model Object**

RelationalOperator block "[Relational Operator1](#)" Condition, Execution

## **29. SubSystem block "[typeMask](#)"**

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isType2/isType1](#)

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

## Full Coverage

Model Object	Metric
S-Function block " <a href="#">Apply Type Mask</a> "	Execution

## 30. SubSystem block "[isTypeMatch2](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D](#)  
**Child Systems:** [typeMask](#), [typeMask1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (2/2) condition outcomes
Execution	NA	100% (3/3) objective outcomes

## Full Coverage

Model Object	Metric
RelationalOperator block " <a href="#">Relational Operator1</a> "	Condition, Execution

## 31. SubSystem block "[typeMask](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isTypeMatch2](#)

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

## Full Coverage

Model Object	Metric
S-Function block " <a href="#">Apply Type Mask</a> "	Execution

## 32. SubSystem block "[typeMask1](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/TypeCheck2T2D/isTypeMatch2](#)

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

**Full Coverage**

**Model Object**

S-Function block "[Apply Type Mask](#)"

**Metric**

Execution

## 33. SubSystem block "[Unit Delay Enabled Resettable Synchronou...](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN](#)

**Child Systems:** [Unit Delay Enabled Resettable](#)

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

## 34. SubSystem block "[Unit Delay Enabled Resettable](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/Unit Delay Enabled Resettable Synchronous8](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

**Full Coverage**

**Model Object**

**Metric**

Delay block "[Enabled Resettable Delay](#)"

Execution

### 35. SubSystem block "[Unit Delay Enabled Resettable Synchronous](#)..."

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN](#)

**Child Systems:** [Unit Delay Enabled Resettable](#)

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

### 36. SubSystem block "[Unit Delay Enabled Resettable](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/Unit Delay Enabled Resettable Synchronous9](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

**Full Coverage**

**Model Object**

**Metric**

Delay block "[Enabled Resettable Delay](#)"

Execution

### 37. SubSystem block "[int type](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN](#)

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

**Full Coverage**

**Model Object**Constant block "[type1](#)"**Metric**

Execution

**38. SubSystem block "[int type1](#)"**[Justify or Exclude](#)**Parent:**[FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN](#)**Metric**

Cyclomatic Complexity

**Coverage (this object)**

0

**Coverage (inc. descendants)**

0

Execution

NA

100% (1/1) objective outcomes

**Full Coverage****Model Object**Constant block "[type1](#)"**Metric**

Execution

**39. SubSystem block "[isType](#)"**[Justify or Exclude](#)**Parent:**[FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN](#)**Child Systems:**[typeMask](#)**Metric**

Cyclomatic Complexity

**Coverage (this object)**

0

**Coverage (inc. descendants)**

0

Condition

NA

100% (2/2) condition outcomes

Execution

NA

100% (2/2) objective outcomes

**Full Coverage****Model Object**RelationalOperator block "[Relational Operator1](#)" Condition, Execution**40. SubSystem block "[typeMask](#)"**

## Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN/isType](#)

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

## **Full Coverage**

Model Object	Metric
S-Function block " <a href="#">Apply Type Mask</a> "	Execution

## **41. SubSystem block "[MIN1](#)"**

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX](#)

**Child Systems:** [2\\_val\\_shift\\_register](#), [Q\\_type](#), [Q\\_LT](#), [TypeCheck2T2D](#), [Unit Delay Enabled Resettable Synchronous8](#), [Unit Delay Enabled Resettable Synchronous9](#), [int type](#), [int type1](#), [isType](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	14
Condition	NA	100% (56/56) condition outcomes
Decision	NA	100% (16/16) decision outcomes
MCDC	NA	67% (8/12) conditions reversed the outcome
Execution	NA	100% (52/52) objective outcomes

## **Logic block "[Logical Operator3](#)"**

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	<a href="#">see Logical Operator</a>
Execution	100% (1/1) objective outcomes

## Full Coverage

Model Object	Metric
Logic block " <a href="#">Logical Operator</a> "	Condition, MCDC, Execution
Logic block " <a href="#">Logical Operator1</a> "	Condition, MCDC, Execution
Logic block " <a href="#">Logical Operator2</a> "	Condition, MCDC, Execution
Switch block " <a href="#">Switch</a> "	Decision, Execution
Switch block " <a href="#">Switch1</a> "	Decision, Execution
Switch block " <a href="#">Switch2</a> "	Decision, Execution
Switch block " <a href="#">Switch5</a> "	Decision, Execution
Switch block " <a href="#">Switch6</a> "	Decision, Execution
RelationalOperator block " <a href="#">Relational Operator1</a> "	Condition, Execution
Constant block " <a href="#">Constant</a> "	Execution
Constant block " <a href="#">Constant1</a> "	Execution

## 42. SubSystem block "[2\\_val\\_shift\\_register](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1](#)

**Child Systems:** [Data 1](#), [Data 2](#), [Type 1](#), [Type 2](#)

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

## 43. SubSystem block "[Data 1](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/2\\_val\\_shift\\_register](#)

**Child Systems:** [Unit Delay Enabled Resettable](#)

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

#### 44. SubSystem block "[Unit Delay Enabled Resettable](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN DUPLEX/MIN1/2\\_val\\_shift\\_register/Data 1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

**Full Coverage**

Model Object	Metric
Delay block " <u><a href="#">Enabled Resettable Delay</a></u> "	Execution

#### 45. SubSystem block "[Data 2](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN DUPLEX/MIN1/2\\_val\\_shift\\_register](#)

**Child Systems:** [Unit Delay Enabled Resettable](#)

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

#### 46. SubSystem block "[Unit Delay Enabled Resettable](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN DUPLEX/MIN1/2\\_val\\_shift\\_register/Data 2](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

**Full Coverage**

Model Object	Metric

Delay block "[Enabled Resettable Delay](#)"      **Execution**

## 47. SubSystem block "[Type 1](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/2\\_val\\_shift\\_register](#)  
**Child Systems:** [Unit Delay Enabled Resettable](#)

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

## 48. SubSystem block "[Unit Delay Enabled Resettable](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/2\\_val\\_shift\\_register/Type 1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

### Full Coverage

Model Object	Metric
Delay block " <a href="#">Enabled Resettable Delay</a> "	Execution

## 49. SubSystem block "[Type 2](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/2\\_val\\_shift\\_register](#)  
**Child Systems:** [Unit Delay Enabled Resettable](#)

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

## 50. SubSystem block "[Unit Delay Enabled Resettable](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/2\\_val\\_shift\\_register/Type2](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

**Full Coverage**

Model Object	Metric
Delay block " <u><a href="#">Enabled Resettable Delay</a></u> "	Execution

## 51. SubSystem block "[Q\\_type](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1](#)

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

**Full Coverage**

Model Object	Metric
Constant block " <u><a href="#">type1</a></u> "	Execution

## 52. SubSystem block "[Q\\_LT](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1](#)

**Child Systems:** [fractionalMask](#), [fractionalMask1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	2

Condition	NA	100% (6/6) condition outcomes
Decision	NA	100% (4/4) decision outcomes
Execution	NA	100% (9/9) objective outcomes

## Full Coverage

Model Object	Metric
Switch block " <a href="#">Switch1</a> "	Decision, Execution
Switch block " <a href="#">Switch3</a> "	Decision, Execution
RelationalOperator block " <a href="#">Relational Operator1</a> "	Condition, Execution
RelationalOperator block " <a href="#">Relational Operator3</a> "	Condition, Execution
RelationalOperator block " <a href="#">sgn</a> "	Condition, Execution
Constant block " <a href="#">sgn1</a> "	Execution
Constant block " <a href="#">sgn2</a> "	Execution

## 53. SubSystem block "[fractionalMask](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/Q\\_LT](#)

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

## Full Coverage

Model Object	Metric
S-Function block " <a href="#">Apply Type Mask</a> "	Execution

## 54. SubSystem block "[fractionalMask1](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/Q\\_LT](#)

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

## Full Coverage

Model Object	Metric
S-Function block " <a href="#">Apply Type Mask</a> "	Execution

## 55. SubSystem block "[TypeCheck2T2D](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1](#)

**Child Systems:** [code\\_type\\_bit](#), [cond\\_generate\\_error\\_code](#), [isType1](#), [isType2](#), [isTypeMatch2](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Condition	NA	100% (30/30) condition outcomes
Decision	NA	100% (2/2) decision outcomes
MCDC	NA	20% (1/5) conditions reversed the outcome
Execution	NA	100% (20/20) objective outcomes

## Logic block "[Logical Operator](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
MCDC	<a href="#">see Logical Operator1</a>
Execution	100% (1/1) objective outcomes

## Logic block "[Logical Operator1](#)"

### Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D](#)

**Uncovered Links:**

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (6/6) condition outcomes
MCDC	20% (1/5) conditions reversed the outcome
Execution	100% (1/1) objective outcomes

**MC/DC analysis (combinations in parentheses did not occur)**Includes 6 blocks

Decision/Condition	True Out	False Out
(~C1    ~(C2    C3))    ~(C4    C5)		
C1 (Logical Operator In1)	FTFFT	TTFTF
C2 (Logical Operator In1)	(TFFT <del>F</del> )	TTFTF
C3 (Logical Operator In2)	(TFFT <del>T</del> )	TFT <del>T</del> F
C4 (Logical Operator In1)	(TTFF <del>F</del> )	TTFT <del>F</del>
C5 (Logical Operator In2)	(TTTF <del>F</del> )	TFTFT

**Logic block "Logical Operator2"**Justify or ExcludeParent: [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
MCDC	<a href="#">see Logical Operator1</a>
Execution	100% (1/1) objective outcomes

**Logic block "Logical Operator3"**Justify or ExcludeParent: [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
MCDC	<a href="#">see Logical Operator1</a>

Execution 100% (1/1) objective outcomes

## 56. SubSystem block "[code\\_type\\_bit](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D](#)

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

**Full Coverage**

**Model Object**

Constant block "[type1](#)"

**Metric**

Execution

## 57. SubSystem block "[cond\\_generate\\_error\\_code](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D](#)

**Child Systems:** [code\\_no\\_error](#)

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

**Full Coverage**

**Model Object**

Switch block "[Switch](#)"

**Metric**

Decision, Execution

## 58. SubSystem block "[code\\_no\\_error](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/cond\\_generate\\_error\\_code](#)

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

## Full Coverage

Model Object	Metric
Constant block " <a href="#">type1</a> "	Execution

## 59. SubSystem block "[isType1](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D](#)  
**Child Systems:** [isType](#), [isType1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (8/8) condition outcomes
Execution	NA	100% (5/5) objective outcomes

## Logic block "[Logical Operator](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isType1](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	<a href="#">see Logical Operator1</a>
Execution	100% (1/1) objective outcomes

## 60. SubSystem block "[isType](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isType1](#)  
**Child Systems:** [typeMask](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (2/2) condition outcomes
Execution	NA	100% (2/2) objective outcomes

## Full Coverage

Model Object	Metric
RelationalOperator block " <a href="#">Relational Operator1</a> "	Condition, Execution

## 61. SubSystem block "[typeMask](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isType1/isType](#)

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

## Full Coverage

Model Object	Metric
S-Function block " <a href="#">Apply Type Mask</a> "	Execution

## 62. SubSystem block "[isType1](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isType1](#)

**Child Systems:** [typeMask](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (2/2) condition outcomes
Execution	NA	100% (2/2) objective outcomes

## Full Coverage

**Model Object****Metric**

RelationalOperator block "[Relational Operator1](#)" Condition, Execution

**63. SubSystem block "[typeMask](#)"**Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isType1/isType1](#)

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

**Full Coverage****Model Object****Metric**

S-Function block "[Apply Type Mask](#)" Execution

**64. SubSystem block "[isType2](#)"**Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D](#)

**Child Systems:** [isType, isType1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (8/8) condition outcomes
Execution	NA	100% (5/5) objective outcomes

**Logic block "[Logical Operator](#)"**Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isType2](#)

**Metric****Coverage**

Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	<a href="#">see Logical Operator1</a>

Execution 100% (1/1) objective outcomes

## 65. SubSystem block "[isType](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isType2](#)

**Child Systems:** [typeMask](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (2/2) condition outcomes
Execution	NA	100% (2/2) objective outcomes

### Full Coverage

**Model Object**

**Metric**

RelationalOperator block "[Relational Operator1](#)" Condition, Execution

## 66. SubSystem block "[typeMask](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isType2/isType](#)

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

### Full Coverage

**Model Object**

**Metric**

S-Function block "[Apply Type Mask](#)" Execution

## 67. SubSystem block "[isType1](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isType2](#)

**Child Systems:** [typeMask](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (2/2) condition outcomes
Execution	NA	100% (2/2) objective outcomes

## Full Coverage

### Model Object

### Metric

RelationalOperator block "[Relational Operator1](#)" Condition, Execution

## 68. SubSystem block "[typeMask](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isType2/isType1](#)

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

## Full Coverage

### Model Object

### Metric

S-Function block "[Apply Type Mask](#)" Execution

## 69. SubSystem block "[isTypeMatch2](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D](#)

**Child Systems:** [typeMask](#), [typeMask1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (2/2) condition outcomes
Execution	NA	100% (3/3) objective outcomes

## Full Coverage

Model Object	Metric
RelationalOperator block " <a href="#">Relational Operator1</a> "	Condition, Execution

## 70. SubSystem block "[typeMask](#)"

### Justify or Exclude

Parent: [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isTypeMatch2](#)

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

## Full Coverage

Model Object	Metric
S-Function block " <a href="#">Apply Type Mask</a> "	Execution

## 71. SubSystem block "[typeMask1](#)"

### Justify or Exclude

Parent: [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/TypeCheck2T2D/isTypeMatch2](#)

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

## Full Coverage

Model Object	Metric
S-Function block " <a href="#">Apply Type Mask</a> "	Execution

## 72. SubSystem block "[Unit Delay Enabled Resettable Synchronou...](#)"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1](#)

**Child Systems:** [Unit Delay Enabled Resettable](#)

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

### 73. SubSystem block "[Unit Delay Enabled Resettable](#)"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/Unit Delay Enabled Resettable Synchronous8](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

#### Full Coverage

**Model Object**

Delay block "[Enabled Resettable Delay](#)"

**Metric**

Execution

### 74. SubSystem block "[Unit Delay Enabled Resettable Synchronou...](#)"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1](#)

**Child Systems:** [Unit Delay Enabled Resettable](#)

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

### 75. SubSystem block "[Unit Delay Enabled Resettable](#)"

Justify or Exclude

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/Unit Delay Enabled Resettable Synchronous9](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	1	1
Execution	NA	100% (1/1) objective outcomes

## Full Coverage

<b>Model Object</b>	<b>Metric</b>
Delay block " <a href="#">Enabled Resettable Delay</a> "	Execution

## 76. SubSystem block "[int type](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	0
Execution	NA	100% (1/1) objective outcomes

## Full Coverage

<b>Model Object</b>	<b>Metric</b>
Constant block " <a href="#">type1</a> "	Execution

## 77. SubSystem block "[int type1](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1](#)

<b>Metric</b>	<b>Coverage (this object)</b>	<b>Coverage (inc. descendants)</b>
Cyclomatic Complexity	0	0
Execution	NA	100% (1/1) objective outcomes

## Full Coverage

<b>Model Object</b>	<b>Metric</b>

Constant block "[type1](#)"

Execution

## 78. SubSystem block "[isType](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1](#)

**Child Systems:** [typeMask](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Condition	NA	100% (2/2) condition outcomes
Execution	NA	100% (2/2) objective outcomes

**Full Coverage**

**Model Object**

**Metric**

RelationalOperator block "[Relational Operator1](#)" Condition, Execution

## 79. SubSystem block "[typeMask](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/MIN1/isType](#)

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

**Full Coverage**

**Model Object**

**Metric**

S-Function block "[Apply Type Mask](#)" Execution

## 80. SubSystem block "[State Comparator](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX](#)

**Child Systems:** [Compare To Zero](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Condition	NA	100% (14/14) condition outcomes
Decision	NA	50% (1/2) decision outcomes
Execution	NA	80% (4/5) objective outcomes

## Switch block "[Switch1](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/State Comparator](#)

**Uncovered Links:**

Metric	Coverage
Cyclomatic Complexity	1
Decision	50% (1/2) decision outcomes
Execution	100% (1/1) objective outcomes

### Decisions analyzed

logical trigger input	50%
false (output is from 3rd input port)	0/209 
true (output is from 1st input port)	209/209

## Constant block "[Constant1](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/State Comparator](#)

**Uncovered Links:**

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

## Full Coverage

### Model Object

Sum block "[Sum of Elements](#)"

### Metric

Execution

RelationalOperator block "[Relational Operator](#)" Condition, Execution

## 81. SubSystem block "[Compare To Zero](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX/State Comparator](#)

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

### Full Coverage

**Model Object**

RelationalOperator block "[Compare](#)"

**Metric**

Condition, Execution

## 82. SubSystem block "[combine\\_error\\_codes](#)"

[Justify or Exclude](#)

**Parent:** [FBFunctions\\_Harness\\_MIN/MIN\\_DUPLEX](#)

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

### Full Coverage

**Model Object**

S-Function block "[Bitwise Operator](#)"

**Metric**

Execution