

Coverage Report for FBFunctions

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Analysis Information

Model Information

Model version	1.72
Author	hiterd
Last saved	Mon Feb 04 19:42:27 2019

Harness information

Harness model(s)	FBFunctions_Harness_BOR
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_BOR/BOR_DUPLEX
Logic block short circuiting	off
MCDC mode	masking

Tests

Test#	Started execution	Ended execution
Test 1	04-Feb-2019 19:44:20	04-Feb-2019 19:46:53

Summary

Model Hierarchy/Complexity	Test 1									
	Decision			Condition		MCDC		Execution		
1. BOR_DUPLEX	20	93%	<div><div></div></div>	98%	<div><div></div></div>	64%	<div><div></div></div>	99%	<div><div></div></div>	
2. . . . BOR	9	100%	<div><div></div></div>	100%	<div><div></div></div>	70%	<div><div></div></div>	100%	<div><div></div></div>	
3. 2_val_shift_register	4	NA		NA		NA		100%	<div><div></div></div>	
4. Data 1	1	NA		NA		NA		100%	<div><div></div></div>	
5. Unit Delay Enabled Resettable	1	NA		NA		NA		100%	<div><div></div></div>	
6. Data 2	1	NA		NA		NA		100%	<div><div></div></div>	
7. Unit Delay Enabled Resettable	1	NA		NA		NA		100%	<div><div></div></div>	
8. Type 1	1	NA		NA		NA		100%	<div><div></div></div>	
9. Unit Delay Enabled Resettable	1	NA		NA		NA		100%	<div><div></div></div>	
10. Type 2	1	NA		NA		NA		100%	<div><div></div></div>	
11. Unit Delay Enabled Resettable	1	NA		NA		NA		100%	<div><div></div></div>	
12. TypeCheck2T1D	1	100%	<div><div></div></div>	100%	<div><div></div></div>	0%	<div><div></div></div>	100%	<div><div></div></div>	
13. code_type_bit		NA		NA		NA		100%	<div><div></div></div>	
14. cond_generate_error_code	1	100%	<div><div></div></div>	NA		NA		100%	<div><div></div></div>	
15. code_no_error		NA		NA		NA		100%	<div><div></div></div>	
16. isType		NA		100%	<div><div></div></div>	NA		100%	<div><div></div></div>	
17. typeMask		NA		NA		NA		100%	<div><div></div></div>	
18. isType1		NA		100%	<div><div></div></div>	NA		100%	<div><div></div></div>	
19. typeMask		NA		NA		NA		100%	<div><div></div></div>	
20. isTypeMatch2		NA		100%	<div><div></div></div>	NA		100%	<div><div></div></div>	
21. typeMask		NA		NA		NA		100%	<div><div></div></div>	
22. typeMask1		NA		NA		NA		100%	<div><div></div></div>	
23. Unit Delay Enabled Resettable Synchronous8	1	NA		NA		NA		100%	<div><div></div></div>	
24. Unit Delay Enabled Resettable	1	NA		NA		NA		100%	<div><div></div></div>	
25. Unit Delay Enabled Resettable Synchronous9	1	NA		NA		NA		100%	<div><div></div></div>	
26. Unit Delay Enabled Resettable	1	NA		NA		NA		100%	<div><div></div></div>	
27. int type		NA		NA		NA		100%	<div><div></div></div>	
28. . . . BOR1	9	100%	<div><div></div></div>	100%	<div><div></div></div>	70%	<div><div></div></div>	100%	<div><div></div></div>	
29. 2_val_shift_register	4	NA		NA		NA		100%	<div><div></div></div>	
30. Data 1	1	NA		NA		NA		100%	<div><div></div></div>	
31. Unit Delay Enabled Resettable	1	NA		NA		NA		100%	<div><div></div></div>	

32. Data 2	1	NA	NA	NA	100%	<div></div>
33. Unit Delay Enabled Resettable	1	NA	NA	NA	100%	<div></div>
34. Type 1	1	NA	NA	NA	100%	<div></div>
35. Unit Delay Enabled Resettable	1	NA	NA	NA	100%	<div></div>
36. Type 2	1	NA	NA	NA	100%	<div></div>
37. Unit Delay Enabled Resettable	1	NA	NA	NA	100%	<div></div>
38. TypeCheck2T1D	1	100% <div></div>	100% <div></div>	0% <div></div>	100%	<div></div>
39. code_type_bit		NA	NA	NA	100%	<div></div>
40. cond_generate_error_code	1	100% <div></div>	NA	NA	100%	<div></div>
41. code_no_error		NA	NA	NA	100%	<div></div>
42. isType		NA	100% <div></div>	NA	100%	<div></div>
43. typeMask		NA	NA	NA	100%	<div></div>
44. isType1		NA	100% <div></div>	NA	100%	<div></div>
45. typeMask		NA	NA	NA	100%	<div></div>
46. isTypeMatch2		NA	100% <div></div>	NA	100%	<div></div>
47. typeMask		NA	NA	NA	100%	<div></div>
48. typeMask1		NA	NA	NA	100%	<div></div>
49. Unit Delay Enabled Resettable Synchronous8	1	NA	NA	NA	100%	<div></div>
50. Unit Delay Enabled Resettable	1	NA	NA	NA	100%	<div></div>
51. Unit Delay Enabled Resettable Synchronous9	1	NA	NA	NA	100%	<div></div>
52. Unit Delay Enabled Resettable	1	NA	NA	NA	100%	<div></div>
53. int type		NA	NA	NA	100%	<div></div>
54. State Comparator	1	50% <div></div>	100% <div></div>	NA	80%	<div></div>
55. Compare To Zero		NA	100% <div></div>	NA	100%	<div></div>
56. combine_error_codes		NA	NA	NA	100%	<div></div>

Details

1. SubSystem block "[BOR_DUPLEX](#)"

Child Systems: [BOR](#), [BOR1](#), [State Comparator](#), [combine_error_codes](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	20
Condition	NA	98% (86/88) condition outcomes
Decision	NA	93% (13/14) decision outcomes 64% (14/22) conditions reversed the

MCDC	NA	outcome
Execution	NA	99% (70/71) objective outcomes

Logic block "[Logical Operator](#)"



[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX](#)

Uncovered Links: 

Metric	Coverage
Cyclomatic Complexity	0
Condition	50% (2/4) condition outcomes
MCDC	0% (0/2) conditions reversed the outcome
Execution	100% (1/1) objective outcomes

Conditions analyzed

Description	True	False
input port 1	110	0 
input port 2	110	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 " Relational Operator "	Condition, Execution
Constant block " Num Ins "	Execution
Constant block " Num Outs "	Execution
Constant block " fb_num_constant "	Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX](#)

Child Systems: [2_val_shift_register](#), [TypeCheck2T1D](#), [Unit Delay Enabled Resettable Synchronous8](#), [Unit Delay Enabled Resettable Synchronous9](#), [int type](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	9
Condition	NA	100% (34/34) condition outcomes
Decision	NA	100% (6/6) decision outcomes
MCDC	NA	70% (7/10) conditions reversed the outcome
Execution	NA	100% (30/30) objective outcomes

Logic block "[Logical Operator3](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	see Logical Operator
Execution	100% (1/1) objective outcomes

Full Coverage

Model Object	Metric
Logic block " Logical Operator "	Condition, MCDC, Execution
Logic block " Logical Operator1 "	Condition, MCDC, Execution
Logic block " Logical Operator2 "	Condition, MCDC, Execution
Switch block " Switch "	Decision, Execution
Switch block " Switch1 "	Decision, Execution
S-Function block " Bitwise Operator "	Execution
Constant block " Constant "	Execution
Constant block " Constant1 "	Execution

3. SubSystem block "[2_val_shift_register](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR](#)

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/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 " Enabled Resettable Delay "	Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/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

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

Metric

Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/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_BOR/BOR_DUPLEX/BOR/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 " Enabled Resettable Delay "	Execution

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

[Justify or Exclude](#)

Parent:	FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/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_BOR/BOR_DUPLEX/BOR/2_val_shift_register/Type 2
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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

12. SubSystem block "[TypeCheck2T1D](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR](#)

Child Systems: [code_type_bit](#), [cond_generate_error_code](#), [isType](#), [isType1](#), [isTypeMatch2](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Condition	NA	100% (18/18) condition outcomes
Decision	NA	100% (2/2) decision outcomes
MCDC	NA	0% (0/3) conditions reversed the outcome
Execution	NA	100% (14/14) objective outcomes

Logic block "[Logical Operator1](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D](#)

Uncovered Links: 

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (6/6) condition outcomes
MCDC	0% (0/3) conditions reversed the outcome
Execution	100% (1/1) objective outcomes

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

[Includes 4 blocks](#)

Decision/Condition	True Out	False Out
($\sim C1 \parallel \sim C2$) $\parallel \sim C3$		
C1 (Logical Operator4 In1)	(F TT)	T TT
C2 (Logical Operator2 In1)	(T F T)	TT T
C3 (Logical Operator3 In1)	(TT F)	TT T

Logic block "[Logical Operator2](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D](#)

Metric	Coverage
Cyclomatic Complexity	0

Condition	100% (2/2) condition outcomes
MCDC	see Logical Operator1
Execution	100% (1/1) objective outcomes

Logic block "[Logical Operator3](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
MCDC	see Logical Operator1
Execution	100% (1/1) objective outcomes

Logic block "[Logical Operator4](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
MCDC	see Logical Operator1
Execution	100% (1/1) objective outcomes

13. SubSystem block "[code_type_bit](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D](#)

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 "[type1](#)"

Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D](#)

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D/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

Constant block "[type1](#)"

Metric

Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D](#)

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D](#)

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D](#)

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D/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 " Apply Type Mask "	Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/TypeCheck2T1D/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 " Apply Type Mask "	Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR](#)

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

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR](#)

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

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR/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 ObjectDelay block "[Enabled Resettable Delay](#)"**Metric**

Execution

27. SubSystem block "[int type](#)"[Justify or Exclude](#)**Parent:** [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR](#)

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

28. SubSystem block "[BOR1](#)"[Justify or Exclude](#)**Parent:** [FBFunctions_Harness_BOR/BOR_DUPLEX](#)**Child Systems:** [2_val_shift_register](#), [TypeCheck2T1D](#), [Unit Delay Enabled Resettable Synchronous8](#), [Unit Delay Enabled Resettable Synchronous9](#), [int type](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	9
Condition	NA	100% (34/34) condition outcomes
Decision	NA	100% (6/6) decision outcomes
MCDC	NA	70% (7/10) conditions reversed the outcome
Execution	NA	100% (30/30) objective outcomes

Logic block "[Logical Operator3](#)"[Justify or Exclude](#)**Parent:** [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	see Logical Operator
Execution	100% (1/1) objective outcomes

Full Coverage

Model Object	Metric
Logic block " Logical Operator "	Condition, MCDC, Execution
Logic block " Logical Operator1 "	Condition, MCDC, Execution
Logic block " Logical Operator2 "	Condition, MCDC, Execution
Switch block " Switch "	Decision, Execution
Switch block " Switch1 "	Decision, Execution
S-Function block " Bitwise Operator "	Execution
Constant block " Constant "	Execution
Constant block " Constant1 "	Execution

29. SubSystem block "[2_val_shift_register](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1](#)
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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/2_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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/2_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 " Enabled Resettable Delay "	Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/2_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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/2_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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/2_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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/2_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 " Enabled Resettable Delay "	Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/2_val_shift_register](#)
Child Systems: [Unit Delay Enabled Resettable](#)

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/2_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 " Enabled Resettable Delay "	Execution

38. SubSystem block "[TypeCheck2T1D](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1](#)
Child Systems: [code_type_bit](#), [cond_generate_error_code](#), [isType](#), [isType1](#), [isTypeMatch2](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Condition	NA	100% (18/18) condition outcomes
Decision	NA	100% (2/2) decision outcomes
MCDC	NA	0% (0/3) conditions reversed the outcome
Execution	NA	100% (14/14) objective outcomes

Logic block "[Logical Operator1](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D](#)

Uncovered Links: 

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (6/6) condition outcomes
MCDC	0% (0/3) conditions reversed the outcome
Execution	100% (1/1) objective outcomes

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

[Includes 4 blocks](#)

Decision/Condition	True Out	False Out
(~C1 ~C2) ~C3		
C1 (Logical Operator4 In1)	(F TT)	T TT
C2 (Logical Operator2 In1)	(T F T)	T TT
C3 (Logical Operator3 In1)	(TT F)	TT T

Logic block "[Logical Operator2](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
MCDC	see Logical Operator1
Execution	100% (1/1) objective outcomes

Logic block "[Logical Operator3](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
MCDC	see Logical Operator1
Execution	100% (1/1) objective outcomes

Logic block "[Logical Operator4](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (2/2) condition outcomes
MCDC	see Logical Operator1
Execution	100% (1/1) objective outcomes

39. SubSystem block "[code_type_bit](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D](#)

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 " type1 "	Execution

40. SubSystem block "[cond_generate_error_code](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D](#)

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	Metric
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Switch block "[Switch](#)"

Decision, Execution

41. SubSystem block "[code_no_error](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D/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

Constant block "[type1](#)"

Metric

Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D](#)

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](#)"

Metric

Condition, Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D/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

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

[Justify or Exclude](#)

Parent:	FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D
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

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

[Justify or Exclude](#)

Parent:	FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D/isType1
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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

46. SubSystem block "[isTypeMatch2](#)"[Justify or Exclude](#)**Parent:** [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D](#)**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 "[Relational Operator1](#)" Condition, Execution**47. SubSystem block "[typeMask](#)"**[Justify or Exclude](#)**Parent:** [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D/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 "[Apply Type Mask](#)"

Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/TypeCheck2T1D/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 " Apply Type Mask "	Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1](#)

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_BOR/BOR_DUPLEX/BOR1/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1](#)

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

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/BOR1](#)

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

Full Coverage

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

Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_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_BOR/BOR_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)	0/110 
true (output is from 1st input port)	110/110

Constant block "[Constant1](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX/State Comparator](#)

Uncovered Links: 

Metric	Coverage
Cyclomatic Complexity	0



Full Coverage

Model Object	Metric
Sum block " Sum of Elements "	Execution
RelationalOperator block " Relational Operator "	Condition, Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_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	Metric
RelationalOperator block " Compare "	Condition, Execution

56. SubSystem block "[combine_error_codes](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_BOR/BOR_DUPLEX](#)

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

Full Coverage

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

Execution