

Coverage Report for FBFunctions

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Analysis Information

Model Information

Model version	1.71
Author	hiterd
Last saved	Mon Feb 04 16:56:31 2019

Harness information

Harness model(s)	FBFunctions_Harness_NAND
Harness model owner	FBFunctions

Simulation Optimization Options

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

Coverage Options

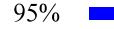
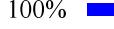
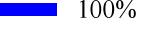
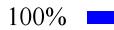
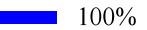
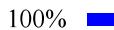
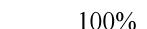
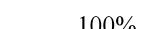
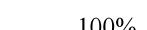
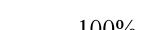
Analyzed model	FBFunctions_Harness_NAND/NAND_DUPLEX
Logic block short circuiting	off
MCDC mode	masking

Tests

Test# Started execution Ended execution

Test 1 04-Feb-2019 17:17:35 04-Feb-2019 17:20:38

Summary

Model Hierarchy/Complexity	Test 1				
	Decision	Condition	MCDC	Execution	
1. NAND DUPLEX	24 95%	 99%	 99%	71%	 99%
2. . . . NAND	11 100%	 100%	 100%	75%	 100%
3. 2_val_shift_register	4 NA	NA	NA	NA	 100%
4. Data 1	1 NA	NA	NA	NA	 100%
5. Unit Delay Enabled Resettable	1 NA	NA	NA	NA	 100%
6. Data 2	1 NA	NA	NA	NA	 100%
7. Unit Delay Enabled Resettable	1 NA	NA	NA	NA	 100%
8. Type 1	1 NA	NA	NA	NA	 100%
9. Unit Delay Enabled Resettable	1 NA	NA	NA	NA	 100%
10. Type 2	1 NA	NA	NA	NA	 100%
11. Unit Delay Enabled Resettable	1 NA	NA	NA	NA	 100%
12. TypeCheck2T2D	1 100%	 100%	 100%	20%	 100%
13. code_type_bit	NA	NA	NA	NA	 100%
14. cond_generate_error_code	1 100%	 NA	NA	NA	 100%
15. code_no_error	NA	NA	NA	NA	 100%
16. isType1	NA	100%	 NA	NA	 100%
17. isType	NA	100%	 NA	NA	 100%
18. typeMask	NA	NA	NA	NA	 100%
19. isType1	NA	100%	 NA	NA	 100%
20. typeMask	NA	NA	NA	NA	 100%
21. isType2	NA	100%	 NA	NA	 100%
22. isType	NA	100%	 NA	NA	 100%
23. typeMask	NA	NA	NA	NA	 100%
24. isType1	NA	100%	 NA	NA	 100%
25. typeMask	NA	NA	NA	NA	 100%
26. isTypeMatch2	NA	100%	 NA	NA	 100%
27. typeMask	NA	NA	NA	NA	 100%
28. typeMask1	NA	NA	NA	NA	 100%
29. Unit Delay Enabled Resettable Synchronous8	1 NA	NA	NA	NA	 100%
30. Unit Delay Enabled Resettable	1 NA	NA	NA	NA	 100%
31. Unit Delay Enabled Resettable Synchronous9	1 NA	NA	NA	NA	 100%
32. Unit Delay Enabled Resettable	1 NA	NA	NA	NA	 100%
33. bool type	NA	NA	NA	NA	 100%
34. boolToSafebool	1 100%	 NA	NA	NA	 100%
35. safebool false	NA	NA	NA	NA	 100%

36.....	safebool true	NA	NA	NA	100%					
37.....	isType	NA	100%		NA	100%				
38.....	typeMask	NA	NA	NA	100%					
39.....	safebool type	NA	NA	NA	100%					
40.....	safebool type1	NA	NA	NA	100%					
41.....	safeboolToBool1	NA	100%		NA	100%				
42.....	safebool true	NA	NA	NA	100%					
43.....	safeboolToBool3	NA	100%		NA	100%				
44.....	safebool true	NA	NA	NA	100%					
45....	NAND1	11	100%		100%		75%		100%	
46.....	2_val shift register	4	NA	NA	NA	100%				
47.....	Data 1	1	NA	NA	NA	100%				
48.....	Unit Delay Enabled Resettable	1	NA	NA	NA	100%				
49.....	Data 2	1	NA	NA	NA	100%				
50.....	Unit Delay Enabled Resettable	1	NA	NA	NA	100%				
51.....	Type 1	1	NA	NA	NA	100%				
52.....	Unit Delay Enabled Resettable	1	NA	NA	NA	100%				
53.....	Type 2	1	NA	NA	NA	100%				
54.....	Unit Delay Enabled Resettable	1	NA	NA	NA	100%				
55....	TypeCheck2T2D	1	100%		100%		20%		100%	
56.....	code_type_bit	NA	NA	NA	100%					
57.....	cond_generate_error_code	1	100%		NA	NA	100%			
58.....	code_no_error	NA	NA	NA	100%					
59.....	isType1	NA	100%		NA	100%				
60.....	isType	NA	100%		NA	100%				
61.....	typeMask	NA	NA	NA	100%					
62.....	isType1	NA	100%		NA	100%				
63.....	typeMask	NA	NA	NA	100%					
64.....	isType2	NA	100%		NA	100%				
65.....	isType	NA	100%		NA	100%				
66.....	typeMask	NA	NA	NA	100%					
67.....	isType1	NA	100%		NA	100%				
68.....	typeMask	NA	NA	NA	100%					
69.....	isTypeMatch2	NA	100%		NA	100%				
70.....	typeMask	NA	NA	NA	100%					
71.....	typeMask1	NA	NA	NA	100%					
72.....	Unit Delay Enabled Resettable	1	NA	NA	NA	100%				
	Synchronous8									
73.....	Unit Delay Enabled Resettable	1	NA	NA	NA	100%				
74.....	Unit Delay Enabled Resettable	1	NA	NA	NA	100%				
	Synchronous9									
75.....	Unit Delay Enabled Resettable	1	NA	NA	NA	100%				

76. bool type	NA	NA	NA	100%				
77. boolToSafebool	1	100%		NA	100%			
78. safebool false	NA	NA	NA	100%				
79. safebool true	NA	NA	NA	100%				
80. isType	NA	100%		NA	100%			
81. typeMask	NA	NA	NA	100%				
82. safebool type	NA	NA	NA	100%				
83. safebool type1	NA	NA	NA	100%				
84. safeboolToBool1	NA	100%		NA	100%			
85. safebool true	NA	NA	NA	100%				
86. safeboolToBool3	NA	100%		NA	100%			
87. safebool true	NA	NA	NA	100%				
88. State Comparator	1	50%		100%		NA	80%	
89. Compare To Zero	NA	100%		NA	100%			
90. combine_error_codes	NA	NA	NA	100%				

Details

1. SubSystem block "[NAND DUPLEX](#)"

Child Systems: [NAND](#), [NAND1](#), [State Comparator](#), [combine_error_codes](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	24
Condition	NA	99% (142/144) condition outcomes
Decision	NA	95% (21/22) decision outcomes
MCDC	NA	71% (24/34) conditions reversed the outcome
Execution	NA	99% (110/111) objective outcomes

Logic block "[Logical Operator](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND 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	187	0 
input port 2	187	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 "[NAND](#)"

Justify or Exclude

Parent:

[FBFunctions_Harness_NAND/NAND_DUPLEX](#)

Child Systems:

[2_val_shift_register](#), [TypeCheck2T2D](#), [Unit Delay Enabled Resettable Synchronous8](#), [Unit Delay Enabled Resettable Synchronous9](#), [bool type](#), [boolToSafebool](#), [isType](#), [safebool type](#), [safebool type1](#), [safeboolToBool1](#), [safeboolToBool3](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	11
Condition	NA	100% (62/62) condition outcomes
Decision	NA	100% (10/10) decision outcomes
MCDC	NA	75% (12/16) conditions reversed the outcome
Execution	NA	100% (50/50) objective outcomes

Logic block "[Logical Operator3](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)

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
Logic block " Logical Operator4 "	Condition, MCDC, Execution
Logic block " Logical Operator5 "	Condition, MCDC, Execution
Logic block " Logical Operator6 "	Condition, Execution
Switch block " Switch "	Decision, Execution
Switch block " Switch1 "	Decision, Execution
Switch block " Switch2 "	Decision, Execution
Constant block " Constant "	Execution
Constant block " Constant1 "	Execution

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)

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_NAND/NAND_DUPLEX/NAND/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_NAND/NAND_DUPLEX/NAND/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_NAND/NAND_DUPLEX/NAND/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_NAND/NAND_DUPLEX/NAND/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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_NAND/NAND_DUPLEX/NAND/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_NAND/NAND_DUPLEX/NAND/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
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11. SubSystem block "Unit Delay Enabled Resettable"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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

12. SubSystem block "TypeCheck2T2D"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)

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_NAND/NAND_DUPLEX/NAND/TypeCheck2T2D](#)

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

Logic block "[Logical Operator1](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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)	F TFFT	T TFTF
C2 (Logical Operator In1)	(T F FTF)	T T FTF
C3 (Logical Operator In2)	(T F FTT)	T F TFT
C4 (Logical Operator In1)	(TT F FF)	TT F TF
C5 (Logical Operator In2)	(TTT F F)	T F TFT

Logic block "[Logical Operator2](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/TypeCheck2T2D](#)

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_NAND/NAND_DUPLEX/NAND/TypeCheck2T2D](#)

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_NAND/NAND_DUPLEX/NAND/TypeCheck2T2D](#)

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_NAND/NAND_DUPLEX/NAND/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	Metric
Switch block " Switch "	Decision, Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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 " type1 "	Execution

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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_NAND/NAND_DUPLEX/NAND/TypeCheck2T2D/isType1](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	see Logical Operator1
Execution	100% (1/1) objective outcomes

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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 " Apply Type Mask "	Execution

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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

21. SubSystem block "[isType2](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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_NAND/NAND_DUPLEX/NAND/TypeCheck2T2D/isType2](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	see Logical Operator1
Execution	100% (1/1) objective outcomes

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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 " Relational Operator1 "	Condition, Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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 " Apply Type Mask "	Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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 " Apply Type Mask "	Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)

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

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)
Child Systems: [Unit Delay Enabled Resettable](#)

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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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

33. SubSystem block "[bool type](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)

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

34. SubSystem block "[boolToSafebool](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)
Child Systems: [safebool false](#), [safebool true](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (3/3) objective outcomes

Full Coverage

Model Object	Metric
Switch block " Switch "	Decision, Execution

35. SubSystem block "[safebool false](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/boolToSafebool](#)

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

36. SubSystem block "[safebool true](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/boolToSafebool](#)

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/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

39. SubSystem block "[safebool type](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)

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 "[safebool type1](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)

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

41. SubSystem block "[safeboolToBool1](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)
Child Systems: [safebool true](#)

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 Operator "	Condition, Execution

42. SubSystem block "[safebool true](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/safeboolToBool1](#)

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

43. SubSystem block "[safeboolToBool3](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND](#)
Child Systems: [safebool true](#)

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 Operator "	Condition, Execution

44. SubSystem block "[safebool true](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND/safeboolToBool3](#)

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

45. SubSystem block "[NAND1](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX](#)

Child Systems: [2_val shift register](#), [TypeCheck2T2D](#), [Unit Delay Enabled Resettable Synchronous8](#), [Unit Delay Enabled Resettable Synchronous9](#), [bool type](#), [boolToSafebool](#), [isType](#), [safebool type](#), [safebool type1](#), [safeboolToBool1](#), [safeboolToBool3](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	11
Condition	NA	100% (62/62) condition outcomes
Decision	NA	100% (10/10) decision outcomes
MCDC	NA	75% (12/16) conditions reversed the outcome
Execution	NA	100% (50/50) objective outcomes

Logic block "[Logical Operator3](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)

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
Logic block " Logical Operator4 "	Condition, MCDC, Execution
Logic block " Logical Operator5 "	Condition, MCDC, Execution
Logic block " Logical Operator6 "	Condition, Execution
Switch block " Switch "	Decision, Execution
Switch block " Switch1 "	Decision, Execution
Switch block " Switch2 "	Decision, Execution
Constant block " Constant "	Execution
Constant block " Constant1 "	Execution

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)
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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/2_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
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48. SubSystem block "Unit Delay Enabled Resettable"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/2_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

49. SubSystem block "Data 2"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/2_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_NAND/NAND_DUPLEX/NAND1/2_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
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Delay block "[Enabled Resettable Delay](#)" Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/2_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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/2_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 [Delay block "Enabled Resettable Delay"](#) **Metric** Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/2_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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/2_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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)

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_NAND/NAND_DUPLEX/NAND1/TypeCheck2T2D](#)

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

Logic block "[Logical Operator1](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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)	F TFFF	T TF F F
C2 (Logical Operator In1)	(T FFF F)	T T F TF
C3 (Logical Operator In2)	(T FFF T)	T F T FT
C4 (Logical Operator In1)	(TTFFF F)	TT F TF
C5 (Logical Operator In2)	(TTT F F)	T F FT T

Logic block "[Logical Operator2](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/TypeCheck2T2D](#)

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_NAND/NAND_DUPLEX/NAND1/TypeCheck2T2D](#)

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

56. SubSystem block "code_type_bit"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/TypeCheck2T2D](#)

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

57. SubSystem block "cond_generate_error_code"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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	Metric
Switch block " Switch "	Decision, Execution

58. SubSystem block "code_no_error"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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 " type1 "	Execution

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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_NAND/NAND_DUPLEX/NAND1/TypeCheck2T2D/isType1](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	see Logical Operator1
Execution	100% (1/1) objective outcomes

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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 " Apply Type Mask "	Execution

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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_NAND/NAND_DUPLEX/NAND1/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_NAND/NAND_DUPLEX/NAND1/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_NAND/NAND_DUPLEX/NAND1/TypeCheck2T2D/isType2](#)

Metric	Coverage
Cyclomatic Complexity	0
Condition	100% (4/4) condition outcomes
MCDC	see Logical Operator1
Execution	100% (1/1) objective outcomes

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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
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Full Coverage

Model Object Metric

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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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_NAND/NAND_DUPLEX/NAND1/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_NAND/NAND_DUPLEX/NAND1/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_NAND/NAND_DUPLEX/NAND1/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 " Relational Operator1 "	Condition, Execution

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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 " Apply Type Mask "	Execution

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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 " Apply Type Mask "	Execution

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)

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_NAND/NAND_DUPLEX/NAND1/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)
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_NAND/NAND_DUPLEX/NAND1/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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)

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

77. SubSystem block "[boolToSafebool](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)
Child Systems: [safebool false](#), [safebool true](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (3/3) objective outcomes

Full Coverage

Model Object	Metric
Switch block " Switch "	Decision, Execution

78. SubSystem block "[safebool false](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/boolToSafebool](#)

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

79. SubSystem block "[safebool true](#)"

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/boolToSafebool](#)

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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)

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

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

Justify or Exclude

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/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

82. SubSystem block "[safebool type](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)

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

83. SubSystem block "[safebool type1](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)

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

84. SubSystem block "[safeboolToBool1](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)

Child Systems: [safebool true](#)

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 Operator "	Condition, Execution

85. SubSystem block "[safebool true](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/safeboolToBool1](#)

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

86. SubSystem block "[safeboolToBool3](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1](#)

Child Systems: [safebool true](#)

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 Operator "	Condition, Execution

87. SubSystem block "[safebool true](#)"

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_DUPLEX/NAND1/safeboolToBool3](#)

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

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

[Justify or Exclude](#)

Parent: [FBFunctions_Harness_NAND/NAND_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_NAND/NAND_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)	0/187

Constant block "[Constant1](#)"[Justify or Exclude](#)**Parent:** [FBFunctions_Harness_NAND/NAND_DUPLEX/State Comparator](#)**Uncovered Links:** 

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

Full Coverage**Model Object****Metric**Sum block "[Sum of Elements](#)" ExecutionRelationalOperator block "[Relational Operator](#)" Condition, Execution**89. SubSystem block "[Compare To Zero](#)"**[Justify or Exclude](#)**Parent:** [FBFunctions_Harness_NAND/NAND_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**90. SubSystem block "[combine_error_codes](#)"**[Justify or Exclude](#)**Parent:** [FBFunctions_Harness_NAND/NAND_DUPLEX](#)

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 " Bitwise Operator "	Execution