

# Coverage Report for FBStateFlow

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## Analysis Information

### Model Information

Model version	1.49
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Last saved	Fri Feb 08 01:08:56 2019

### Harness information

Harness model(s)	FB_Controller_Harness_FbController
Harness model owner	FB_Controller

### Simulation Optimization Options

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

### Coverage Options

Analyzed model	FBStateFlow
Logic block short circuiting	off

## Tests

Test#	Started execution	Ended execution
Test 1	08-Feb-2019 01:09:45	08-Feb-2019 01:12:33

# Summary

Model Hierarchy/Complexity	Test 1	Decision
1. <a href="#">FBStateFlow</a>	25 100%	<div></div>
2. . . . <a href="#">controller</a>	24 100%	<div></div>
3. . . . . <a href="#">SF: controller</a>	23 100%	<div></div>
4. . . . . . <a href="#">SF: EXECUTE</a>	3 100%	<div></div>
5. . . . . . <a href="#">SF: READ_INPUT</a>	2 100%	<div></div>
6. . . . . . <a href="#">SF: WRITE_OUTPUT</a>	2 100%	<div></div>

## Details

### 1. Model "FBStateFlow"

Child Systems: [controller](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	25
Decision	NA	100% (41/41) decision outcomes

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

[Justify or Exclude](#)

Parent: [/FBStateFlow](#)

Child Systems: [controller](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	24
Decision	NA	100% (41/41) decision outcomes

### 3. Chart "[controller](#)"

[Justify or Exclude](#)

Parent: [FBStateFlow/controller](#)

Child Systems: [EXECUTE](#), [READ\\_INPUT](#), [WRITE\\_OUTPUT](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	6	23
Decision	100% (7/7) decision outcomes	100% (41/41) decision outcomes

#### Decisions analyzed

Substate executed	100%
State "DONE"	4/3366
State "ERROR"	1628/3366
State "EXECUTE"	364/3366
State "IDLE"	640/3366
State "INIT"	34/3366
State "READ_INPUT"	494/3366
State "WRITE_OUTPUT"	202/3366

#### Full Coverage

Model Object	Metric
Transition " <a href="#">[error]</a> " from Junction #3 to " <a href="#">ERROR</a> "	Decision
Transition " <a href="#">[ctrl]</a> " from " <a href="#">DONE</a> " to " <a href="#">INIT</a> "	Decision
Transition " <a href="#">[ctrl]</a> " from " <a href="#">IDLE</a> " to " <a href="#">READ_INPUT</a> "	Decision
Transition " <a href="#">[more_outputs]</a> " from Junction #2 to " <a href="#">WRITE_OUTPUT</a> "	Decision
Transition " <a href="#">[ctrl]</a> " from " <a href="#">ERROR</a> " to Junction #0	Decision
Transition " <a href="#">[abort]</a> " from Junction #0 to " <a href="#">INIT</a> "	Decision
Transition " <a href="#">[more_inputs]</a> " from Junction #1 to " <a href="#">READ_INPUT</a> "	Decision
Transition " <a href="#">[ctrl]</a> " from " <a href="#">not_read</a> " to Junction #1	Decision
Transition " <a href="#">[ctrl]</a> " from " <a href="#">complete</a> " to " <a href="#">WRITE_OUTPUT</a> "	Decision
Transition " <a href="#">[ctrl]</a> " from " <a href="#">not_write</a> " to Junction #2	Decision

#### 4. State "EXECUTE"

[Justify or Exclude](#)

**Parent:** [FBStateFlow/controller](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	2	3
Decision	100% (4/4) decision outcomes	100% (6/6) decision outcomes

##### Decisions analyzed

Substate executed	100%
State "complete"	32/358
State "execute"	326/358
Substate exited when parent exits	100%
State "complete"	2/6
State "execute"	4/6

#### Full Coverage

##### Model Object

Transition "[\[executed\]](#)" from "[execute](#)" to "[complete](#)"

##### Metric

Decision

#### 5. State "READ\_INPUT"

[Justify or Exclude](#)

**Parent:** [FBStateFlow/controller](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	2	2
Decision	100% (4/4) decision outcomes	100% (4/4) decision outcomes

##### Decisions analyzed

Substate executed	100%
State "not_read"	420/489
State "read"	69/489
Substate exited when parent exits	100%

State "not_read"	2/5
State "read"	3/5

## 6. State "WRITE\_OUTPUT"

[Justify or Exclude](#)

**Parent:** [FBStateFlow/controller](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	2	2
Decision	100% (4/4) decision outcomes	100% (4/4) decision outcomes

### Decisions analyzed

Substate executed	100%
State "not_write"	180/196
State "write"	16/196
Substate exited when parent exits	100%
State "not_write"	4/6
State "write"	2/6