

Coverage Report for model

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Analysis Information

Coverage Data Information

Collected in version (R2022a)

Model Information

Model version	1.1
Author	lenovo
Last saved	Sat Mar 26 17:07:46 2022

Harness information

Harness model(s)	model_Harness1
Harness model owner	model

Simulation Optimization Options

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

Coverage Options

Analyzed model	model
Logic block short circuiting	off

Tests

Test	Started execution	Ended execution
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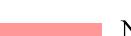
Summary

Model Hierarchy/Complexity

1. [model](#)
2. [12.3kW Wind Turbine](#)
3. [cp\(lambda,beta\)](#)
4. [Current Measurement](#)
5. [Diode](#)
6. [Model](#)
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23. [abc2qd](#)
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25. [id](#)
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27. [qd2abc](#)
28. [Mechanical model](#)
29. [Coulomb & Viscous Friction](#)
30. [PandO MPPT](#)
31. [Repeating Sequence](#)
32. [Subsystem](#)
33. [RMS](#)
34. [RMS](#)

Run 1

		Decision	TBL	Execution		
38	58%	■	■ NA	72%	■	■
6	67%	■	■ NA	100%	■■■■■	
		NA	NA	100%	■■■■■	
		NA	NA	100%	■■■■■	
3	50%	■■■■■	NA	83%	■■■■■	■
3	50%	■■■■■	NA	83%	■■■■■	■
		NA	NA	100%	■■■■■	
		NA	NA	100%	■■■■■	
1	100%	■■■■■	NA	100%	■■■■■	
1	100%	■■■■■	NA	100%	■■■■■	
		NA	NA	100%	■■■■■	
1	100%	■■■■■	NA	100%	■■■■■	
1	100%	■■■■■	NA	100%	■■■■■	
		NA	NA	100%	■■■■■	
1	100%	■■■■■	NA	100%	■■■■■	
		NA	NA	100%	■■■■■	
1	100%	■■■■■	NA	100%	■■■■■	
		NA	NA	100%	■■■■■	
5	70%	■	■ NA	100%	■■■■■	
		NA	NA	100%	■■■■■	
20	44%	■	■■■■■	38%	■	■
10	44%	■	■■■■■	37%	■	■
4	17%	■■■■■	NA	0%	■■■■■	

35.....	Fourier1	2	0%		NA	0%	
36.....	Mean	1	0%		NA	0%	
37.....	Model	1	0%		NA	0%	
38.....	Discrete Variable Time Delay		NA		NA	0%	
39.....	Mean value1	1	0%		NA	0%	
40.....	Model	1	0%		NA	0%	
41.....	Discrete Variable Time Delay		NA		NA	0%	
42.....	TrueRMS	5	63%	 	NA	100%	
43.....	Mean value	1	100%		NA	100%	
44.....	Model	1	100%		NA	100%	
45.....	Discrete Variable Time Delay		NA		NA	100%	
46.....	RMS1	10	44%	 	NA	37%	 
47.....	RMS	4	17%	 	NA	0%	
48.....	Fourier1	2	0%		NA	0%	
49.....	Mean	1	0%		NA	0%	
50.....	Model	1	0%		NA	0%	
51.....	Discrete Variable Time Delay		NA		NA	0%	
52.....	Mean value1	1	0%		NA	0%	
53.....	Model	1	0%		NA	0%	
54.....	Discrete Variable Time Delay		NA		NA	0%	
55.....	TrueRMS	5	63%	 	NA	100%	
56.....	Mean value	1	100%		NA	100%	
57.....	Model	1	100%		NA	100%	
58.....	Discrete Variable Time Delay		NA		NA	100%	
59....	Three-Phase V-I Measurement		NA		NA	100%	
60....	Universal Bridge		NA		NA	100%	
61....	Model		NA		NA	100%	
62....	Vdc		NA		NA	100%	
63....	Voltage Measurement		NA		NA	100%	
64....	Vout		NA		NA	100%	
65....	powergui		NA		NA	100%	
66....	EquivalentModel1		NA		NA	100%	
67....	Sources		NA		NA	100%	

Details

1. Model "model"

Child Systems:

[12.3kW Wind Turbine](#), [Current Measurement](#), [Diode](#), [First-Order Filter](#), [IGBT/Diode](#), [Idc1](#), [Io](#), [Mean1](#), [Mean2](#), [PMSG](#), [PandO MPPT](#), [Repeating Sequence](#), [Subsystem](#), [Three-Phase V-I Measurement](#), [Universal Bridge](#), [Vdc](#), [Voltage Measurement](#), [Vout](#), [powergui](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	1	38
Decision	NA	58% (38/66) decision outcomes
Lookup Table	NA	NA
Execution	NA	72% (195/272) objective outcomes

Full Coverage

Model Object	Metric
Gain block " Gain "	Execution
Gain block " Gain1 "	Execution
Product block " Product "	Execution
Product block " Product1 "	Execution
Product block " Product2 "	Execution
Product block " Product3 "	Execution
RelationalOperator block " GreaterThan "	Execution
Constant block " Constant "	Execution
Constant block " Pm "	Execution
Constant block " V m/s "	Execution
Constant block " wr "	Execution

2. SubSystem block "[12.3kW Wind Turbine](#)"

Justify or Exclude

Parent: [/model](#)

Child Systems: [cp\(lambda,beta\)](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	6
Decision	NA	67% (8/12) decision outcomes
Execution	NA	100% (15/15) objective outcomes

Saturate block "[Avoid division by zero](#)"

Justify or Exclude

Parent: [model/12.3kW Wind Turbine](#)

Uncovered Links:**Metric** **Coverage**

Cyclomatic Complexity	2
Decision	75% (3/4) decision outcomes
Execution	100% (1/1) objective outcomes

Decisions analyzed

input >= lower limit	100%
false	240666/500001
true	259335/500001
input > upper limit	50%
false	500001/500001
true	0/500001

Saturate block "[Avoid division by zero](#)"Justify or ExcludeParent: [model/12.3kW Wind Turbine](#)**Uncovered Links:****Metric** **Coverage**

Cyclomatic Complexity	2
Decision	50% (2/4) decision outcomes
Execution	100% (1/1) objective outcomes

Decisions analyzed

input >= lower limit	50%
false	0/2
true	2/2
input > upper limit	50%
false	2/2
true	0/2

Saturate block "[Saturation1](#)"Justify or Exclude

Parent: [model/12.3kW Wind Turbine](#)

Uncovered Links:

Metric	Coverage
Cyclomatic Complexity	2
Decision	75% (3/4) decision outcomes
Execution	100% (1/1) objective outcomes

Decisions analyzed

input >= lower limit	100%
false	240666/500001
true	259335/500001
input > upper limit	50%
false	500001/500001
true	0/500001

Full Coverage

Model Object	Metric
Fcn block " wind_speed^3 "	Execution
Gain block " 1/cp_nom "	Execution
Gain block " 1/wind_base "	Execution
Gain block " Gain "	Execution
Gain block " lambda_nom "	Execution
Gain block " pu->pu "	Execution
Gain block " pu->pu "	Execution
Product block " Product "	Execution
Product block " Product "	Execution
Product block " Product2 "	Execution

3. SubSystem block "[cp\(lambda,beta\)](#)"

[Justify or Exclude](#)

Parent: [model/12.3kW Wind Turbine](#)

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

Full Coverage

Model Object	Metric
Fcn block " Fcn "	Execution
Fcn block " Fcn1 "	Execution

4. SubSystem block "[Current Measurement](#)"

[Justify or Exclude](#)

Parent: [/model](#)

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

Full Coverage

Model Object	Metric
Gain block " do not delete this gain "	Execution

5. SubSystem block "[Diode](#)"

[Justify or Exclude](#)

Parent: [/model](#)

Child Systems: [Model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	3
Decision	NA	50% (3/6) decision outcomes
Execution	NA	83% (5/6) objective outcomes

6. SubSystem block "[Model](#)"

[Justify or Exclude](#)

Parent: [model/Diode](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	3
Decision	NA	50% (3/6) decision outcomes
Execution	NA	83% (5/6) objective outcomes

Saturate block "Saturation"

Justify or Exclude

Parent: [model/Diode/Model](#)

Uncovered Links:

Metric	Coverage
Cyclomatic Complexity	2
Decision	50% (2/4) decision outcomes
Execution	100% (1/1) objective outcomes

Decisions analyzed

input >= lower limit	50%
false	0/500001
true	500001/500001
input > upper limit	50%
false	500001/500001
true	0/500001

Switch block "Switch"

Justify or Exclude

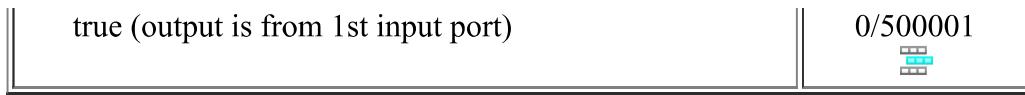
Parent: [model/Diode/Model](#)

Uncovered Links:

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

Decisions analyzed

trigger >= threshold	50%
false (output is from 3rd input port)	500001/500001



Gain block "[Gain](#)"

[Justify or Exclude](#)

Parent: [model/Diode/Model](#)

Uncovered Links: 

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

Full Coverage

Model Object	Metric
Sum block " Sum "	Execution
Constant block " 0_1 "	Execution
Constant block " eee "	Execution

7. SubSystem block "[First-Order Filter](#)"

[Justify or Exclude](#)

Parent: [/model](#)

Child Systems: [Model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Execution	NA	100% (7/7) objective outcomes

8. SubSystem block "[Model](#)"

[Justify or Exclude](#)

Parent: [model/First-Order Filter](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Execution	NA	100% (7/7) objective outcomes

Full Coverage

Model Object	Metric
Gain block " A "	Execution
Gain block " B "	Execution
Gain block " C "	Execution
Gain block " D "	Execution
Sum block " A*x(k) + B*u(k) "	Execution
Sum block " sum1 "	Execution
UnitDelay block " Delay_x "	Execution

9. SubSystem block "[IGBT/Diode](#)"

[Justify or Exclude](#)

Parent: [/model](#)

Child Systems: [Model](#)

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

10. SubSystem block "[Model](#)"

[Justify or Exclude](#)

Parent: [model/IGBT/Diode](#)

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

Full Coverage

Model Object	Metric
Switch block " Switch "	Decision, Execution
DataTypeConversion block " Data Type Conversion "	Execution

Gain block " 1/Rsw "	Execution
Constant block " 0_4 "	Execution

11. SubSystem block "[Idc1](#)"

[Justify or Exclude](#)

Parent: [/model](#)

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

Full Coverage

Model Object	Metric
Gain block " do not delete this gain "	Execution

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

[Justify or Exclude](#)

Parent: [/model](#)

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

Full Coverage

Model Object	Metric
Gain block " do not delete this gain "	Execution

13. SubSystem block "[Mean1](#)"

[Justify or Exclude](#)

Parent: [/model](#)

Child Systems: [Model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)

Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (15/15) objective outcomes

14. SubSystem block "Model"

[Justify or Exclude](#)

Parent: [model/Mean1](#)

Child Systems: [Discrete Variable Time Delay](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (15/15) objective outcomes

Full Coverage

Model Object	Metric
DiscreteIntegrator block " Integ4 "	Execution
Switch block " Switch "	Decision, Execution
Gain block " Gain "	Execution
Gain block " Gain1 "	Execution
Product block " Product "	Execution
Sum block " Sum1 "	Execution
Sum block " Sum5 "	Execution
Sum block " Sum7 "	Execution
RelationalOperator block " Relational Operator "	Execution
DigitalClock block " Digital Clock "	Execution
Constant block " K1 "	Execution
Constant block " K2 "	Execution
UnitDelay block " Unit Delay "	Execution
UnitDelay block " Unit Delay1 "	Execution

15. SubSystem block "Discrete Variable Time Delay"

[Justify or Exclude](#)

Parent: [model/Mean1/Model](#)

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 " S-Function "	Execution

16. SubSystem block "[Mean2](#)"

[Justify or Exclude](#)

Parent: [/model](#)

Child Systems: [Model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (15/15) objective outcomes

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

[Justify or Exclude](#)

Parent: [model/Mean2](#)

Child Systems: [Discrete Variable Time Delay](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (15/15) objective outcomes

Full Coverage

Model Object	Metric
DiscreteIntegrator block " Integ4 "	Execution
Switch block " Switch "	Decision, Execution
Gain block " Gain "	Execution

Gain block " Gain1 "	Execution
Product block " Product "	Execution
Sum block " Sum1 "	Execution
Sum block " Sum5 "	Execution
Sum block " Sum7 "	Execution
RelationalOperator block " Relational Operator "	Execution
DigitalClock block " Digital Clock "	Execution
Constant block " K1 "	Execution
Constant block " K2 "	Execution
UnitDelay block " Unit Delay "	Execution
UnitDelay block " Unit Delay1 "	Execution

18. SubSystem block "[Discrete Variable Time Delay](#)"

[Justify or Exclude](#)

Parent: [model/Mean2/Model](#)

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 " S-Function "	Execution

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

[Justify or Exclude](#)

Parent: [/model](#)

Child Systems: [Electrical model](#), [Mechanical model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Execution	NA	100% (48/48) objective outcomes

20. SubSystem block "[Electrical model](#)"

[Justify or Exclude](#)

Parent: [model/PMSG](#)

Child Systems: [Hall effect sensor](#), [abc2qd](#), [iq,id](#), [qd2abc](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Execution	NA	100% (41/41) objective outcomes

Full Coverage

Model Object	Metric
Fcn block " Te "	Execution

21. SubSystem block "[Hall effect sensor](#)"

[Justify or Exclude](#)

Parent: [model/PMSG/Electrical model](#)

Child Systems: [Angle converter](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Execution	NA	100% (21/21) objective outcomes

Full Coverage

Model Object	Metric
Logic block " Logical Operator "	Execution
Logic block " Logical Operator1 "	Execution
Logic block " Logical Operator2 "	Execution
DataTypeConversion block " Data Type Conversion "	Execution
DataTypeConversion block " Data Type Conversion1 "	Execution
DataTypeConversion block " Data Type Conversion2 "	Execution
RelationalOperator block " Relational Operator1 "	Execution
RelationalOperator block " Relational Operator2 "	Execution
RelationalOperator block " Relational Operator3 "	Execution

RelationalOperator block " Relational Operator4 "	Execution
RelationalOperator block " Relational Operator5 "	Execution
RelationalOperator block " Relational Operator6 "	Execution
Constant block " Constant "	Execution
Constant block " Constant1 "	Execution
Constant block " Constant2 "	Execution
Constant block " Constant3 "	Execution
Constant block " Constant4 "	Execution
Constant block " Constant5 "	Execution

22. SubSystem block "[Angle converter](#)"

[Justify or Exclude](#)

Parent: [model/PMSG/Electrical model/Hall effect sensor](#)

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

Full Coverage

Model Object	Metric
Gain block " rad2deg "	Execution
Trigonometry block " Trigonometric Function "	Execution
Trigonometry block " Trigonometric Function2 "	Execution

23. SubSystem block "[abc2qd](#)"

[Justify or Exclude](#)

Parent: [model/PMSG/Electrical model](#)

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

Full Coverage

Model Object	Metric
Fcn block " Fcn2 "	Execution
Fcn block " Fcn3 "	Execution
Trigonometry block " Elementary Math "	Execution

24. SubSystem block "[iq,id](#)"

Justify or Exclude

Parent: [model/PMSG/Electrical model](#)

Child Systems: [id](#), [iq](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Execution	NA	100% (13/13) objective outcomes

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

Justify or Exclude

Parent: [model/PMSG/Electrical model/iq,id](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Execution	NA	100% (6/6) objective outcomes

Full Coverage

Model Object	Metric
DiscreteIntegrator block " Discrete-Time Integrator "	Execution
Gain block " 1/Ld "	Execution
Gain block " Lq/Ld "	Execution
Gain block " R/Ld "	Execution
Product block " Product "	Execution
Sum block " Sum "	Execution

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

Justify or Exclude

Parent: [model/PMSG/Electrical model/iq,id](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Execution	NA	100% (7/7) objective outcomes

Full Coverage

Model Object	Metric
DiscreteIntegrator block " Discrete-Time Integrator "	Execution
Gain block " 1/Lq "	Execution
Gain block " Ld/Lq "	Execution
Gain block " R/Lq "	Execution
Gain block " Iam/Lq "	Execution
Product block " Product1 "	Execution
Sum block " Sum1 "	Execution

27. SubSystem block "[qd2abc](#)"

Justify or Exclude

Parent: [model/PMSG/Electrical model](#)

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

Full Coverage

Model Object	Metric
Fcn block " Fcn "	Execution
Fcn block " Fcn1 "	Execution
Sum block " Sum "	Execution

28. SubSystem block "[Mechanical model](#)"

Justify or Exclude

Parent: [model/PMSG](#)

Child Systems: [Coulomb & Viscous Friction](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	0
Execution	NA	100% (7/7) objective outcomes

Full Coverage

Model Object	Metric
DiscreteIntegrator block " Discrete-Time Integrator "	Execution
DiscreteIntegrator block " Discrete-Time Integrator1 "	Execution
Fcn block " Fcn "	Execution
Gain block " Gain "	Execution
Gain block " Gain2 "	Execution
Sum block " Sum "	Execution

29. SubSystem block "[Coulomb & Viscous Friction](#)"

Justify or Exclude

Parent: [model/PMSG/Mechanical model](#)

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

Full Coverage

Model Object	Metric
Sum block " Sum "	Execution

30. SubSystem block "[PandO MPPT](#)"

Justify or Exclude

Parent: [/model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	5
Decision	NA	70% (7/10) decision outcomes
Execution	NA	100% (14/14) objective outcomes

Saturate block "[Saturation](#)"

[Justify or Exclude](#)

Parent: [model/PandO MPPT](#)

Uncovered Links:

Metric	Coverage
Cyclomatic Complexity	2
Decision	50% (2/4) decision outcomes
Execution	100% (1/1) objective outcomes

Decisions analyzed

input >= lower limit	50%
false	0/607201
true	607201/607201
input > upper limit	50%
false	607201/607201
true	0/607201

Switch block "[dV<0](#)"

[Justify or Exclude](#)

Parent: [model/PandO MPPT](#)

Uncovered Links:

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

Decisions analyzed

trigger > threshold	50%
false (output is from 3rd input port)	226517/226517
true (output is from 1st input port)	0/226517



Full Coverage

Model Object	Metric
Switch block " Switch "	Decision, Execution
Switch block " dV>0 "	Decision, Execution
Product block " P(n) "	Execution
Product block " P(n-1) "	Execution
Sum block " Sum "	Execution
Sum block " Sum1 "	Execution
Sum block " d=d+dD "	Execution
Sum block " d=d-dD "	Execution
Memory block " Memory "	Execution
Memory block " Memory1 "	Execution
Memory block " Memory2 "	Execution
Constant block " dD "	Execution

31. SubSystem block "[Repeating Sequence](#)"

[Justify or Exclude](#)

Parent: [/model](#)

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

Full Coverage

Model Object	Metric
SignalConversion block " Output "	Execution

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

[Justify or Exclude](#)

Parent: [/model](#)
Child Systems: [RMS](#), [RMS1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	20
Decision	NA	44% (14/32) decision outcomes
Execution	NA	38% (47/123) objective outcomes

Full Coverage

Model Object	Metric
Gain block " >>kw "	Execution
Gain block " Gain1 "	Execution
Product block " Product3 "	Execution

33. SubSystem block "[RMS](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem](#)
Child Systems: [RMS](#), [TrueRMS](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	10
Decision	NA	44% (7/16) decision outcomes
Execution	NA	37% (22/60) objective outcomes

Switch block "[Switch](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS](#)
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)	0/200001

true (output is from 1st input port)	200001/200001
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Full Coverage

Model Object	Metric
Logic block " Logical Operator "	Execution
DataTypeConversion block " Data Type Conversion "	Execution
Constant block " Constant "	Execution

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

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS](#)

Child Systems: [Fourier1](#)

Uncovered Links:

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	2	4
Decision	50% (1/2) decision outcomes	17% (1/6) decision outcomes
Execution	NA	0% (0/38) objective outcomes

Decisions analyzed

Enable control activated	50%
false	200001/200001
true	0/200001

Gain block "[Gain](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS](#)

Uncovered Links:

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

35. SubSystem block "[Fourier1](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS](#)

Child Systems: [Mean](#), [Mean value1](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	2
Decision	NA	0% (0/4) decision outcomes
Execution	NA	0% (0/37) objective outcomes

Gain block "[Rad->Deg.](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1](#)

Uncovered Links:

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

Product block "[Product](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1](#)

Uncovered Links:

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

Product block "[Product1](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1](#)

Uncovered Links:

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

ComplexToMagnitudeAngle block "[Complex to Magnitude-Angle](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1](#)

Uncovered Links: 

Metric **Coverage**

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

RealImagToComplex block "[Real-Imag to Complex](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1](#)

Uncovered Links: 

Metric **Coverage**

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

Sin block "[cos\(wt\)](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1](#)

Uncovered Links: 

Metric **Coverage**

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

Sin block "[sin\(wt\)](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1](#)

Uncovered Links: 

Metric **Coverage**

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

36. SubSystem block "[Mean](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1](#)

Child Systems: [Model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	0% (0/2) decision outcomes
Execution	NA	0% (0/15) objective outcomes

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

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean](#)

Child Systems: [Discrete Variable Time Delay](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	0% (0/2) decision outcomes
Execution	NA	0% (0/15) objective outcomes

DiscreteIntegrator block "[Integ4](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)

Uncovered Links:

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

Switch block "[Switch](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)

Uncovered Links:

Metric	Coverage
Cyclomatic Complexity	1
Decision	0% (0/2) decision outcomes
Execution	0% (0/1) objective outcomes

Decisions analyzed

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

Gain block "[Gain](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

Metric	Coverage
--------	----------

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

Gain block "[Gain1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

Metric	Coverage
--------	----------

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

Product block "[Product](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

Metric	Coverage
--------	----------

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

Sum block "[Sum1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

Sum block "[Sum5](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

Sum block "[Sum7](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

RelationalOperator block "[Relational Operator](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

DigitalClock block "[Digital Clock](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

Constant block "K1"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)
Uncovered Links: 

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

Constant block "K2"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)
Uncovered Links: 

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

UnitDelay block "Unit Delay"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)
Uncovered Links: 

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

UnitDelay block "Unit Delay1"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)
Uncovered Links: 

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

38. SubSystem block "[Discrete Variable Time Delay](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model](#)

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

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

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean/Model/Discrete Variable Time Delay](#)

Uncovered Links: 

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

39. SubSystem block "[Mean value1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1](#)

Child Systems: [Model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	0% (0/2) decision outcomes
Execution	NA	0% (0/15) objective outcomes

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

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1](#)

Child Systems: [Discrete Variable Time Delay](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	0% (0/2) decision outcomes
Execution	NA	0% (0/15) objective outcomes

DiscreteIntegrator block "[Integ4](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links:

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

Switch block "[Switch](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links:

Metric	Coverage
Cyclomatic Complexity	1
Decision	0% (0/2) decision outcomes
Execution	0% (0/1) objective outcomes

Decisions analyzed

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

Gain block "[Gain](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links:

Metric	Coverage
Cyclomatic Complexity	0

Execution	0% (0/1) objective outcomes
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Gain block "[Gain1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

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

Product block "[Product](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric	Coverage
--------	----------

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

Sum block "[Sum1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric	Coverage
--------	----------

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

Sum block "[Sum5](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric	Coverage
--------	----------

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

Sum block "Sum7"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

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

RelationalOperator block "Relational Operator"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric	Coverage
---------------	-----------------

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

DigitalClock block "Digital Clock"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric	Coverage
---------------	-----------------

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

Constant block "K1"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric	Coverage
---------------	-----------------

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

Constant block "K2"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric	Coverage
--------	----------

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

UnitDelay block "Unit Delay"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric	Coverage
--------	----------

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

UnitDelay block "Unit Delay1"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric	Coverage
--------	----------

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

41. SubSystem block "Discrete Variable Time Delay"

Justify or Exclude

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model](#)

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

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

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model/Discrete Variable Time Delay](#)

Uncovered Links:

Metric	Coverage
--------	----------

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

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

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS](#)

Child Systems: [Mean value](#)

Uncovered Links:

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	2	5
Decision	50% (1/2) decision outcomes	63% (5/8) decision outcomes
Execution	NA	100% (18/18) objective outcomes

Decisions analyzed

Enable control activated	50%
false	0/200001
true	200001/200001

Saturate block "[Saturation to avoid negative sqrt](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/TrueRMS](#)

Uncovered Links:

Metric	Coverage
--------	----------

Cyclomatic Complexity	2
Decision	50% (2/4) decision outcomes
Execution	100% (1/1) objective outcomes

Decisions analyzed

input >= lower limit	50%
false	0/200001 
true	200001/200001
input > upper limit	50%
false	200001/200001
true	0/200001 

Full Coverage

Model Object	Metric
Product block " Product "	Execution
Sqrt block " Sqrt "	Execution

43. SubSystem block "[Mean value](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/TrueRMS](#)
Child Systems: [Model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (15/15) objective outcomes

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

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/TrueRMS /Mean value](#)
Child Systems: [Discrete Variable Time Delay](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (15/15) objective outcomes

Full Coverage

Model Object	Metric
DiscreteIntegrator block " Integ4 "	Execution
Switch block " Switch "	Decision, Execution
Gain block " Gain "	Execution
Gain block " Gain1 "	Execution
Product block " Product "	Execution
Sum block " Sum1 "	Execution
Sum block " Sum5 "	Execution
Sum block " Sum7 "	Execution
RelationalOperator block " Relational Operator "	Execution
DigitalClock block " Digital Clock "	Execution
Constant block " K1 "	Execution
Constant block " K2 "	Execution
UnitDelay block " Unit Delay "	Execution
UnitDelay block " Unit Delay1 "	Execution

45. SubSystem block "[Discrete Variable Time Delay](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS/TrueRMS /Mean value/Model](#)

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 " S-Function "	Execution

46. SubSystem block "[RMS1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem](#)
Child Systems: [RMS](#), [TrueRMS](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	10
Decision	NA	44% (7/16) decision outcomes
Execution	NA	37% (22/60) objective outcomes

Switch block "[Switch](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1](#)

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)	0/200001
true (output is from 1st input port)	200001/200001

Full Coverage

Model Object

Metric

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

DataTypeConversion block "[Data Type Conversion](#)" Execution

Constant block "[Constant](#)" Execution

47. SubSystem block "[RMS](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1](#)

Child Systems: [Fourier1](#)

Uncovered Links:

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	2	4
Decision	50% (1/2) decision outcomes	17% (1/6) decision outcomes

Execution NA 0% (0/38) objective outcomes

Decisions analyzed

Enable control activated	50%
false	200001/200001
true	0/200001 

Gain block "[Gain](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS](#)

Uncovered Links: 

Metric Coverage

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

48. SubSystem block "[Fourier1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS](#)

Child Systems: [Mean](#), [Mean value1](#)

Metric Coverage (this object) Coverage (inc. descendants)

Cyclomatic Complexity	0	2
Decision	NA	0% (0/4) decision outcomes
Execution	NA	0% (0/37) objective outcomes

Gain block "[Rad->Deg.](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1](#)

Uncovered Links: 

Metric Coverage

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

Product block "[Product](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1](#)

Uncovered Links: 

Metric **Coverage**

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

Product block "Product1"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1](#)

Uncovered Links: 

Metric **Coverage**

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

ComplexToMagnitudeAngle block "Complex to Magnitude-Angle"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1](#)

Uncovered Links: 

Metric **Coverage**

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

RealImagToComplex block "Real-Imag to Complex"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1](#)

Uncovered Links: 

Metric **Coverage**

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

Sin block "cos(wt)"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1](#)

Uncovered Links:

Metric **Coverage**

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

Sin block "[sin\(wt\)](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1](#)

Uncovered Links:

Metric **Coverage**

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

49. SubSystem block "[Mean](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1](#)

Child Systems: [Model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	0% (0/2) decision outcomes
Execution	NA	0% (0/15) objective outcomes

50. SubSystem block "[Model](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean](#)

Child Systems: [Discrete Variable Time Delay](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	0% (0/2) decision outcomes
Execution	NA	0% (0/15) objective outcomes

DiscreteIntegrator block "[Integ4](#)"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links:

Metric **Coverage**

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

Switch block "Switch"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links:

Metric **Coverage**

Cyclomatic Complexity	1
Decision	0% (0/2) decision outcomes
Execution	0% (0/1) objective outcomes

Decisions analyzed

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

Gain block "Gain"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links:

Metric **Coverage**

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

Gain block "Gain1"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links:

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

Product block "[Product](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

Sum block "[Sum1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

Sum block "[Sum5](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

Sum block "[Sum7](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

RelationalOperator block "[Relational Operator](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

DigitalClock block "[Digital Clock](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

Constant block "[K1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

Constant block "[K2](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

UnitDelay block "Unit Delay"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

UnitDelay block "Unit Delay1"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

Uncovered Links: 

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

51. SubSystem block "Discrete Variable Time Delay"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model](#)

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

S-Function block "S-Function"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean/Model/Discrete Variable Time Delay](#)

Uncovered Links: 

Metric	Coverage

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

52. SubSystem block "[Mean value1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1](#)
Child Systems: [Model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	0% (0/2) decision outcomes
Execution	NA	0% (0/15) objective outcomes

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

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1](#)
Child Systems: [Discrete Variable Time Delay](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	0% (0/2) decision outcomes
Execution	NA	0% (0/15) objective outcomes

DiscreteIntegrator block "[Integ4](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)
Uncovered Links: 

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

Switch block "[Switch](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)
Uncovered Links: 

Metric	Coverage
Cyclomatic Complexity	1
Decision	0% (0/2) decision outcomes
Execution	0% (0/1) objective outcomes

Decisions analyzed

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

Gain block "Gain"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links:

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

Gain block "Gain1"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links:

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

Product block "Product"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links:

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

Sum block "[Sum1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric **Coverage**

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

Sum block "[Sum5](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric **Coverage**

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

Sum block "[Sum7](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric **Coverage**

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

RelationalOperator block "[Relational Operator](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric **Coverage**

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

DigitalClock block "[Digital Clock](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric **Coverage**

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

Constant block "[K1](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric **Coverage**

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

Constant block "[K2](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric **Coverage**

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

UnitDelay block "[Unit Delay](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric **Coverage**

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

UnitDelay block "Unit Delay1"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Uncovered Links: 

Metric **Coverage**

Cyclomatic Complexity 0

Execution 0% (0/1) objective outcomes

54. SubSystem block "Discrete Variable Time Delay"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model](#)

Metric **Coverage (this object)** **Coverage (inc. descendants)**

Cyclomatic Complexity 0 0

Execution NA 0% (0/1) objective outcomes

S-Function block "S-Function"

Justify or Exclude

Parent: [model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model/Discrete Variable Time Delay](#)

Uncovered Links: 

Metric **Coverage**

Cyclomatic Complexity 0

Execution 0% (0/1) objective outcomes

55. SubSystem block "TrueRMS"

Justify or Exclude

Parent: [model/Subsystem/RMS1](#)

Child Systems: [Mean value](#)

Uncovered Links: 

Metric **Coverage (this object)** **Coverage (inc. descendants)**

Cyclomatic Complexity 2 5

Decision 50% (1/2) decision outcomes 63% (5/8) decision outcomes

Execution NA 100% (18/18) objective outcomes

Decisions analyzed

Enable control activated	50%
false	0/200001 
true	200001/200001

Saturate block "[Saturation to avoid negative sqrt](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/TrueRMS](#)

Uncovered Links: 

Metric Coverage

Cyclomatic Complexity 2
Decision 50% (2/4) decision outcomes
Execution 100% (1/1) objective outcomes

Decisions analyzed

input >= lower limit	50%
false	0/200001 
true	200001/200001
input > upper limit	50%
false	200001/200001
true	0/200001 

Full Coverage

Model Object

Product block "[Product](#)" Execution
Sqrt block "[Sqrt](#)" Execution

Metric

56. SubSystem block "[Mean value](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/TrueRMS](#)

Child Systems: [Model](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (15/15) objective outcomes

57. SubSystem block "[Model](#)"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/TrueRMS /Mean value](#)

Child Systems: [Discrete Variable Time Delay](#)

Metric	Coverage (this object)	Coverage (inc. descendants)
Cyclomatic Complexity	0	1
Decision	NA	100% (2/2) decision outcomes
Execution	NA	100% (15/15) objective outcomes

Full Coverage

Model Object

DiscreteIntegrator block "[Integ4](#)"

Metric

Execution

Switch block "[Switch](#)"

Decision, Execution

Gain block "[Gain](#)"

Execution

Gain block "[Gain1](#)"

Execution

Product block "[Product](#)"

Execution

Sum block "[Sum1](#)"

Execution

Sum block "[Sum5](#)"

Execution

Sum block "[Sum7](#)"

Execution

RelationalOperator block "[Relational Operator](#)"

Execution

DigitalClock block "[Digital Clock](#)"

Execution

Constant block "[K1](#)"

Execution

Constant block "[K2](#)"

Execution

UnitDelay block "[Unit Delay](#)"

Execution

UnitDelay block "[Unit Delay1](#)"

Execution

58. SubSystem block "Discrete Variable Time Delay"

[Justify or Exclude](#)

Parent: [model/Subsystem/RMS1/TrueRMS /Mean value/Model](#)

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 " S-Function "	Execution

59. SubSystem block "Three-Phase V-I Measurement"

[Justify or Exclude](#)

Parent: [/model](#)

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

Full Coverage

Model Object	Metric
Gain block " Kv "	Execution
Gain block " Kv1 "	Execution

60. SubSystem block "Universal Bridge"

[Justify or Exclude](#)

Parent: [/model](#)

Child Systems: [Model](#)

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

Full Coverage

Model Object	Metric
Constant block " g "	Execution

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

[Justify or Exclude](#)

Parent: [model/Universal Bridge](#)

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

Full Coverage

Model Object	Metric
DataTypeConversion block " Data Type Conversion "	Execution
Constant block " Constant "	Execution

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

[Justify or Exclude](#)

Parent: [/model](#)

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

Full Coverage

Model Object	Metric
Gain block " do not delete this gain "	Execution

63. SubSystem block "[Voltage Measurement](#)"

[Justify or Exclude](#)

Parent: [/model](#)

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

Full Coverage

Model Object

Gain block "[do not delete this gain](#)"

Metric

Execution

64. SubSystem block "[Vout](#)"

[Justify or Exclude](#)

Parent: [/model](#)

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

Full Coverage

Model Object

Gain block "[do not delete this gain](#)"

Metric

Execution

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

[Justify or Exclude](#)

Parent: [/model](#)

Child Systems: [EquivalentModel1](#)

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

66. SubSystem block "[EquivalentModel1](#)"

[Justify or Exclude](#)

Parent: [model/powergui](#)

Child Systems: [Sources](#)

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

Full Coverage

Model Object	Metric
S-Function block " State-Space "	Execution

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

[Justify or Exclude](#)

Parent: [model/powergui/EquivalentModel1](#)

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 " SwitchCurrents "	Execution