# Coverage Report for main_model

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## Analysis Information

### Coverage Data Information

| | |
|---|---|
| Collected in version | (R2022a) |

### Model Information

| | |
|---|---|
| Model version | 1.4 |
| Author | DASARI SUDHEERA |
| Last saved | Sat Mar 26 20:11:17 2022 |

### Simulation Optimization Options

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

### Coverage Options

| | |
|---|---|
| Analyzed model | main_model |
| Logic block short circuiting | off |

## Tests

| Test | Started execution | Ended execution |
|---|---|---|
| Run 1 | 26-Mar-2022 23:41:45 | 26-Mar-2022 23:41:55 |

## Summary

| Model Hierarchy/Complexity | | Run 1 | | | |
|---|---|---|---|---|---|
| | | Decision | | Execution | |
| 1. main_model | 5 | 60% | ■ | 100% | ▬▬▬▬ |
| 2. . . . Image From File | | NA | | 100% | ▬▬▬▬ |
| 3. . . . Image From File1 | | NA | | 100% | ▬▬▬▬ |
| 4. . . . Subsystem | 4 | 60% | ■ | 100% | ▬▬▬▬ |
| 5. . . . . . . MATLAB Function | 3 | 67% | ■ | ■ | NA |

# Details

## 1. Model "main_model"

**Child Systems:** Image From File, Image From File1, Subsystem

| Metric | Coverage (this object) | Coverage (inc. descendants) |
|---|---|---|
| Cyclomatic Complexity | 1 | 5 |
| Decision | NA | 60% (3/5) decision outcomes |
| Execution | NA | 100% (5/5) objective outcomes |

## 2. SubSystem block "Image From File"

Justify or Exclude

**Parent:** /main_model

| 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 "Constant1" | Execution |

## 3. SubSystem block "Image From File1"

Justify or Exclude

**Parent:** /main_model

| 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 "Constant1" | Execution |

# 4. SubSystem block "Subsystem"

Justify or Exclude

**Parent:**        /main_model
**Child Systems:**        MATLAB Function

| Metric | Coverage (this object) | Coverage (inc. descendants) |
|---|---|---|
| Cyclomatic Complexity | 0 | 4 |
| Decision | NA | 60% (3/5) decision outcomes |
| Execution | NA | 100% (3/3) objective outcomes |

**Switch block "Switch"**

Justify or Exclude

**Parent:**        main_model/Subsystem
**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) | 51/51 |
| true (output is from 1st input port) | 0/51 |

**Full Coverage**

| Model Object | Metric |
|---|---|
| StringConstant block "String Constant" | Execution |

StringConstant block "String Constant1"          Execution

# 5. MATLAB Function "MATLAB Function"

Justify or Exclude

**Parent:**                    main_model/Subsystem

| Metric | Coverage (this object) | Coverage (inc. descendants) |
|---|---|---|
| Cyclomatic Complexity | 1 | 3 |
| Decision | NA | 67% (2/3) decision outcomes |

**MATLAB Function "fcn"**

Justify or Exclude

**Parent:**            main_model/Subsystem/MATLAB Function
**Uncovered Links:**        ◀

| Metric | Coverage |
|---|---|
| Cyclomatic Complexity | 2 |
| Decision | 67% (2/3) decision outcomes |

```
 1  function z = fcn(x,y)
 2  g=size(x);
 3  y=imresize(y,[g(1),g(2)]);
 4  figure;
 5  if(x==y)
 6      z=1;
 7  else
 8      z=0;
 9  end
10
```

**#5: if(x==y)**

**Decisions analyzed**

| if(x==y) | 50% |
|---|---|
| false | 51/51 |
| true | 0/51 |

**Full Coverage**

| Model Object | Metric |
|---|---|
| #1: function z = fcn(x,y) | Decision |