

# **Model Maintainability Report**

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Project: MathworksCICD

MATLAB version: 25.2.0.2998904 (R2025b)

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## 1. Demo3\_model3

### 1.1. Artifact Summary

Artifact Group	Artifact Type	Number of Artifacts
Design	Block diagram	1
	Model file	1
Functional Requirements		
Test Results		
Tests		

### 1.2. Component Structure

Complexity: 1

Halstead Difficulty: 3.75

Maximum layer depth of 1

Maximum layer breadth of 0

### 1.3. Component Interface

0 component input ports

0 component output ports

0 component input signals

0 component output signals

### 1.4. Design Cyclomatic Complexity Breakdown

#### 1.4.1. Simulink - Complexity

Simulink design cyclomatic complexity of 1

#### 1.4.2. Simulink - Distribution

Decisions	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89
Number of Model Layers	1	0	0	0	0	0	0	0	0	0

#### 1.4.3. Stateflow - Complexity

Stateflow design cyclomatic complexity of 0

#### 1.4.4. Stateflow - Distribution

Decisions	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89
Charts, States, and Truth Tables	0	0	0	0	0	0	0	0	0	0

#### 1.4.5. MATLAB - Complexity

MATLAB code design cyclomatic complexity of 0

#### 1.4.6. MATLAB - Distribution

Decisions	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89
Functions and Methods	0	0	0	0	0	0	0	0	0	0

### 1.5. Halstead Difficulty Breakdown

#### 1.5.1. Simulink - Difficulty

Halstead difficulty of 3.75

#### 1.5.2. Simulink - Distribution

Difficulty	[0,5)	[5,10)	[10,15)	[15,20)	[20,25)	[25,30)	[30,35)	[35,40)	[40,45)	≥45
Number of Model Layers	1	0	0	0	0	0	0	0	0	0

#### 1.5.3. Stateflow - Difficulty

Halstead difficulty of 0

#### 1.5.4. Stateflow - Distribution

Difficulty	[0,5)	[5,10)	[10,15)	[15,20)	[20,25)	[25,30)	[30,35)	[35,40)	[40,45)	≥45
Charts, States, and Truth Tables	0	0	0	0	0	0	0	0	0	0

#### 1.5.5. MATLAB - Difficulty

MATLAB Halstead difficulty of 0

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### 1.5.6. MATLAB - Distribution

Difficulty	[0,5)	[5,10 )	[10,15)	[15,20)	[20,25)	[25,30)	[30,35)	[35,40)	[40,45)	≥45
Functions and Methods	0	0	0	0	0	0	0	0	0	0

### 1.6. Simulink Architecture

#### 1.6.1. Blocks - Count

5 Simulink blocks, excluding Inport, Outport, and Goto blocks

#### 1.6.2. Blocks - Distribution

Blocks	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89
Number of Model Layers	1	0	0	0	0	0	0	0	0	0

#### 1.6.3. Signal Lines - Count

7 Simulink signals

#### 1.6.4. Signal Lines - Distribution

Signal Lines	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89
Number of Model Layers	1	0	0	0	0	0	0	0	0	0

#### 1.6.5. Gotos - Count

0 Simulink Goto blocks

#### 1.6.6. Gotos - Distribution

Goto Blocks	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89
Number of Model Layers	1	0	0	0	0	0	0	0	0	0

### 1.7. Stateflow Architecture

#### 1.7.1. Transitions - Count

0 Stateflow Transitions

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### 1.7.2. Transitions - Distribution

Transitions	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89
Charts	0	0	0	0	0	0	0	0	0	0

### 1.7.3. States - Count

0 Stateflow States

### 1.7.4. States - Distribution

States	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89
Charts	0	0	0	0	0	0	0	0	0	0

## 1.8. MATLAB Architecture

### 1.8.1. Lines of Code - Count

0 effective lines of code

### 1.8.2. Lines of Code - Distribution

Lines of Code	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	>89
Functions and Method S	0	0	0	0	0	0	0	0	0	0