**Synchronous FIFO – SV**

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# Verification Plan

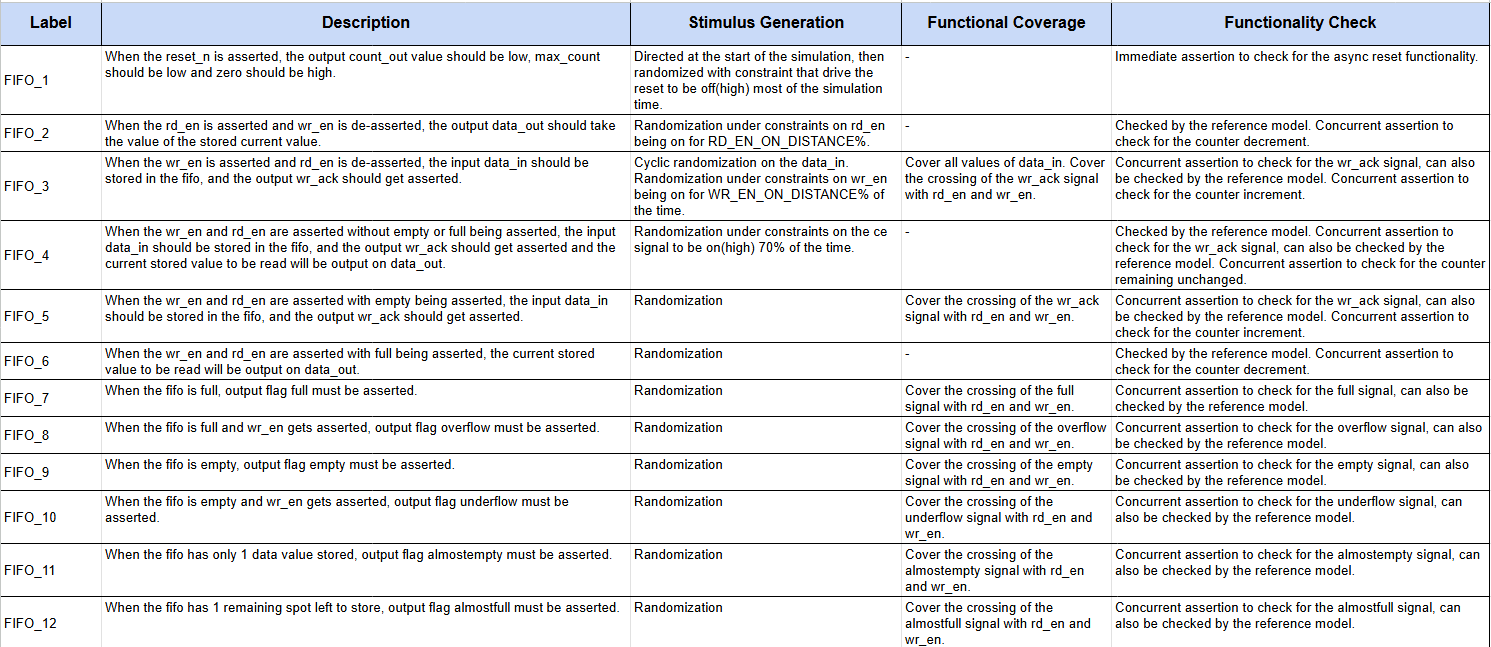


Figure 1: Sync. FIFO Verification Plan

# Code Snippets

## Design

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 2: Fixed Design Code

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 3: Fixed Design Code (Cont.)

### Bugs Found

A screenshot of a computer

AI-generated content may be incorrect.

Figure 4: Bugs Found 1

A close-up of a white background

AI-generated content may be incorrect.

Figure 5: Bugs Found 2

A screenshot of a computer

AI-generated content may be incorrect.

Figure 6: Bugs Found 3

A screenshot of a computer

AI-generated content may be incorrect.

Figure 7: Bugs Found 4

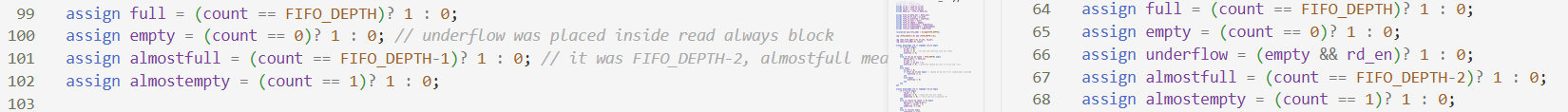


Figure 8: Bugs Found 5

## Top Module

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 9: Top Module Code

## SVAs

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 10: Properties Code

A screen shot of a computer

AI-generated content may be incorrect.

Figure 11: Assertions and Covers Code

## Test Bench Module

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 12: Test Bench Module Code

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 13: Test Bench Module Code (Cont.)

## Interface

A screenshot of a computer

AI-generated content may be incorrect.

Figure 14: Interface Code

## Transaction Package

A screen shot of a computer

AI-generated content may be incorrect.

Figure 15: Transaction Package Code

## Monitor Module

A screen shot of a computer program

AI-generated content may be incorrect.

Figure 16: Monitor Module Code

## Coverage Package

A screenshot of a computer

AI-generated content may be incorrect.

Figure 17: Coverage Package Code

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 18: Coverage Package Code (Cont.)

## Scoreboard Package

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 19: Scoreboard Package Code 1

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 20: Scoreboard Package Code 2

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 21: Scoreboard Package Code 3

## Shared Package

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 22: Shared Package Code

# Source Files List

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 23: List of Source Files

# Do File

A screenshot of a computer program

AI-generated content may be incorrect.

Figure 24: The Do File

# Coverage Report Snippets



## Branch Coverage Snippet

A white background with black text

AI-generated content may be incorrect.

Figure 25: Total Branch Coverage

## Toggle Coverage Snippet

A close-up of a number

AI-generated content may be incorrect.

Figure 26: Total Toggle Coverage

## Statement Coverage Snippet

A close-up of a computer screen

AI-generated content may be incorrect.

Figure 27: Total Statement Coverage

## Condition Coverage Snippet

A close-up of a number

AI-generated content may be incorrect.

Figure 28: Total Condition Coverage

## Directive Coverage Snippet



Figure 29: Total Directive Coverage

## Total Coverage Snippet



Figure 30: Total Coverage

# Functional Coverage Report Snippet

A white background with blue and black numbers

AI-generated content may be incorrect.

Figure 31: Total Functional Coverage

# Assertions Report Snippet

A screenshot of a computer

AI-generated content may be incorrect.

Figure 32: Assertions

# Cover Directives Snippet

A screenshot of a computer

AI-generated content may be incorrect.

Figure 33: Cover Directives