

# Functional Board Test Coverage Analysis

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Functional Safety

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Test coverage is a key qualification tool for driving schematic design, board layout and test program

development for enabling the best production yield. A number of different test coverage models ranging

from MPS to PCOLA/SOQ and PPVS have been developed in defining how the coverage metric is calculated

using different fault models.

## Functional Board Test - Coverage Analysis

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BOARD TEST - COVERAGE ANALYSIS Is a board "good" because ...

Functional testing begins with building test cases based on requirements. These tests can cover key

aspects of your design and verify that individual model components meet requirements. Test cases include

inputs, expected outputs, and acceptance criteria.

Perform Functional Testing and Analyze Test Coverage ...

Functional Board Test Coverage Analysis Author: cdnx.truyenyy.com-2020-10-28T00:00:00+00:01 Subject:

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Functional Board Test Coverage Analysis

If you change the code base, the test coverage tool will tell you which blocks of code have changed (it

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4 Board Test Coverage Board Test Coverage (or simply "coverage") is defined as a numeric indicator of

the quality of a test. This is broken down at the top level into Device Coverage and Connection Coverage

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Test Coverage: What Does It Mean when a Board Test Passes?

Functional Coverage is the metric of how much design functionality has been exercised/covered by the

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How do we perform Test Coverage Analysis? Test Coverage can be implemented by Static testing techniques. These test techniques include peer reviews, code inspections and code walkthroughs. We can convert the adhoc defects into test cases and analyse test coverage. We can use code level tools and automation to achieve test coverage at unit level.

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Board Test Coverage and Electronic Product Testing

Given a set of test requirements TR and a test set T, the coverage level is the ratio of the number of test requirements satisfied by T to the size of TR. TR = {flavor=chocolate, flavor=vanilla, flavor=mint} Test set T1 = {3 chocolate cones, 1 vanilla cone} Coverage Level = 2/3 = 66.7% Coverage levels help evaluate the goodness of a test set, especially in the presence of infeasible test requirements.

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Test Coverage Analysis: A method for analyzing test ...

To calculate test coverage, you need to follow the below-given steps: Step 1) The total lines of code in the piece of software quality you are testing. Step 2) The number of lines of code all test cases currently execute. Now, you need to find (X divided by Y) multiplied by 100. The result of this calculation is your test coverage %. For example:

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Functional Test Coverage. Applications are developed with several builds each made up of distinctive code changes. This climate of incremental code changes, particularly functional, API and regression testing CI/CD pipelines, demand straight forward functional test code coverage to facilitate visibility and efficient feedback loops.

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This service also includes a DFT test coverage analysis that we recommend to do after schematic capture and before PCB layout. At this stage of product development, Corelis provides you with a comprehensive test coverage reports that identifies all of the boundary-scan nets and pins and classifies them as completely tested, partially tested, or not tested.

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Introduce a code coverage tool Publishing code coverage reports of all the test suites (unit, integration and functional) to the entire team will direct attention to the importance of writing automation tests. And, if the tool is made part of the build pipeline then, the pipeline can be made to fail upon a drop below an agreed-upon benchmark.

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