Introduction

The normal PCB assembly process is complex and has many places where something can go wrong. Every defect can be modeled into a fault-effect. Depending on the test method selected, tests can be generated in order to check every fault-effect. This is called fault-oriented testing.

The test quality measure called "Fault coverage" defines the ability of one test method to detect some types of fault. In order to compare and combine "fault coverage" from various test methods, TestWay creates 4 coverage metrics:

- **Presence** of a component
- **Polarity** (orientation) of a component
- **Value** (proper value of the discrete component, signals propagating through a part of the circuit)
- **Solder** (Connections of the component to its surrounding)

These 4 metrics could be combined from structural test (AXI X-Ray, AOI Automated Optical Inspection, MDA Manufacturing Defects Analysis, ICT In-Circuit Test, BST Boundary-Scan Test) or functional test.

Coverages per defect category by component complexity

This graph presents in a 3-dimentional view, the number of components and the different coverages per component complexity. Coverages are described in 5 categories: accessibility, presence, polarity, value and solder.
**Partnumber coverage by component complexity**

This graph presents the coverages (presence, polarity, value) by partnumber per component complexity. For example, if at least one partnumber is covered in value, we can deduce that the right component is in the feeder. Then all parts using this partnumber are at least partially covered in value.

**Soldering coverage by component complexity**

This graph presents the number of solder joints versus the covered solder joints per component complexity.
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**33NF**
Number of parts: 82
Covered solders / total solders: 0/164

**33R**
Number of parts: 4
Covered solders / total solders: 8/8

**47_F_10V**
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Covered solders / total solders: 0/2
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- Number of parts: 29
- Covered solders / total solders: 48/58

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- Number of parts: 2
- Covered solders / total solders: 0/4

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- Number of parts: 6
- Covered solders / total solders: 47/48

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- Number of parts: 2
- Covered solders / total solders: 15/16

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- Number of parts: 3
- Covered solders / total solders: 0/6

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- Number of parts: 4
- Covered solders / total solders: 0/8

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04-juil-2002
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