

ORTHOGONAL ARRAY TESTING

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What is Orthogonal Array Testing?

Orthogonal array testing is a systematic and statistical way of a black box testing technique used when number of inputs to the application under test is small but too complex for an exhaustive testing.

Orthogonal Array Testing Characteristics:

- OAT, is a systematic and statistical approach to pairwise interactions.
- Executing a well-defined and a precise test is likely to uncover most of the defects.
- 100% Orthogonal Array Testing implies 100% pairwise testing.

Example:

If we have 3 parameters, each can have 3 values then the possible Number of tests using conventional method is $3^3 = 27$
While the same using OAT, it boils down to 9 test cases.