

Service : Test Program

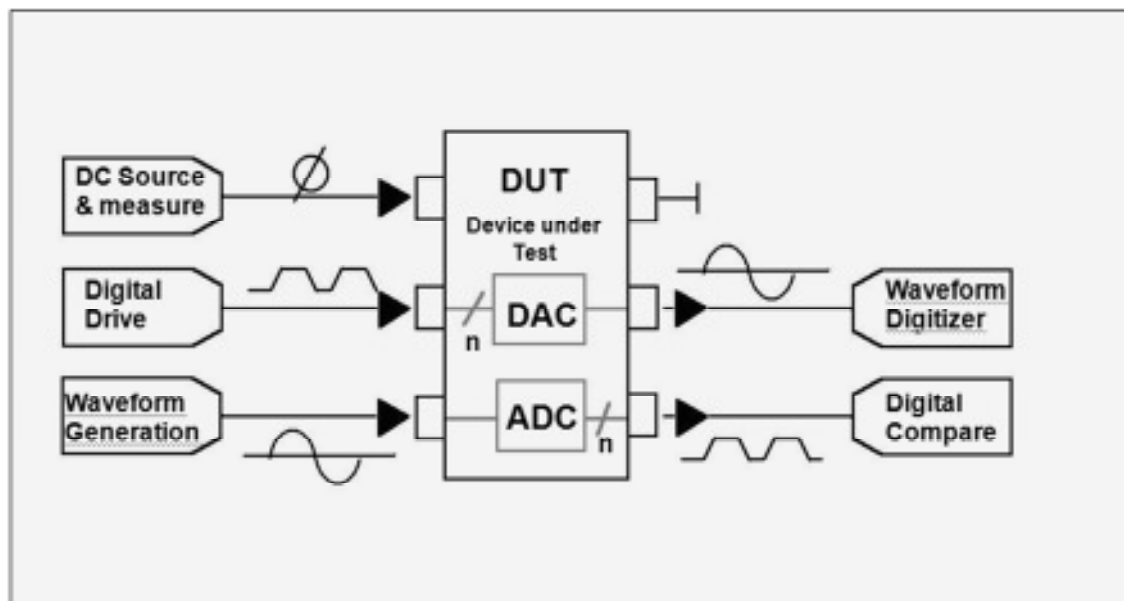
Purpose

Development of a test program to implement a given test specification on ATE (Automatic test equipment).

Its basic tasks

- flow control
- setup, control and poll measurement units
- interface to operators, handling systems, wafer probers and external instruments
- Pass/Fail decision and sorting

Drawing: principle of mixed signal testing



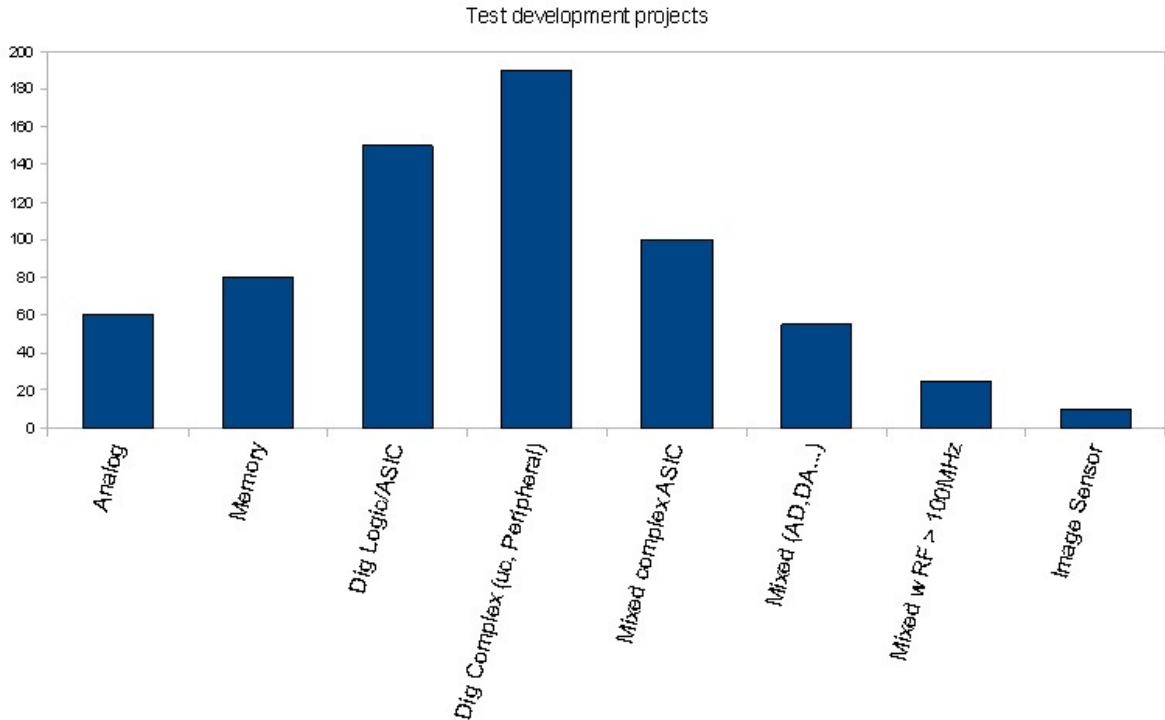
Bluetest Expertise

The Bluetest Team has experience from hundreds of test projects on various test systems.

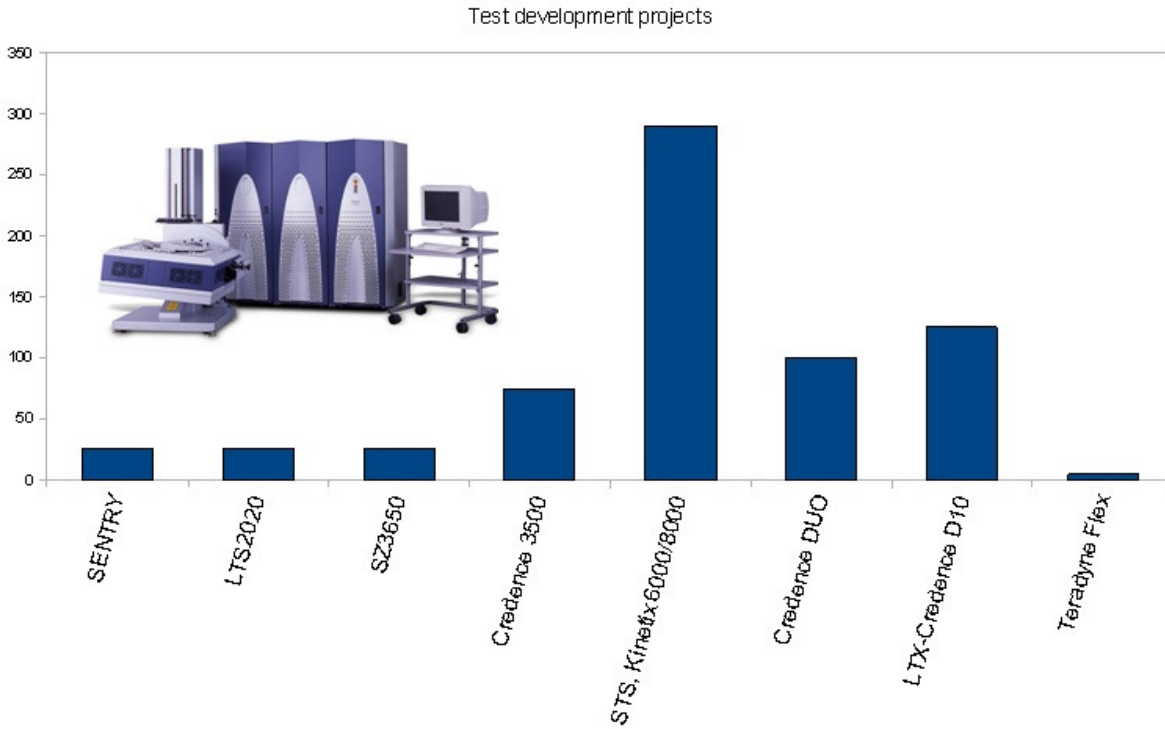
We know our equipment and the measuring methods and the practical needs of characterisation, qualification or series testing.

Effective and goal-oriented approach leads to error-free and robust test programs and associated test hardware.

Technology Experience



Test Systems Experience



Activities
Participants

Design, application
test engineer, test manager

Requirements, Input

Test specification , Test vectors
manuals, device descriptions, etc.

Performance

The project starts with a kick-off meeting to align the state of information of all parties
Bluetest sets up a development plan with risk assessment and schedule.

Frequent communication with our customers is one of the main attributes of a test development at Bluetest. You are always aware of the status.
Arising problems can be solved in time this way. If things are more difficult a common tester session with designer and test engineer will help.

In an best-case scenario the test program and product are developed simultaneously (concept of concurrent engineering)







Test has different purposes in the different phases: design validation, characterising of key parameters, electrical measurements during qualification, ramp-up test, series test.
Its coverage is varying accordingly, but at the latest at qualification or series test start traceability and version control is mandatory.

Result, Output

The complete testprogram is checked and released together with the test hardware and sample devices.

Checklist:

Steps of Testprogram Verification

Complete (all tests from test spec included)	
Limits (as specified, distribution OK)	
Stable (repeatability of measurements OK)	
Correct (all fails are detected, open socket test)	
Save flow (no device damage, spike analysis)	
Clean Code (readable structure, code review)	

Acceptance procedures can be customer defined. Our recommended procedures are described more in detail in chapter "statistics".

Bluetest, 14.2.2013