

Start Testing Your Products with Automated Solutions, And Experience Faster and Repeatable Results

Are you still testing your products manually with switches, knobs, and blinking lights? If so, there are better ways of testing, which involve using Automated Test Equipment to run a test in an accurate and repeatable manner. This white paper will show how you can leverage the latest software and techniques to save time and money in the long run.

1. Scripting

Scripting is the use of a proprietary or established language to drive the test engine. By using the power of scripting, and attaching input and output hardware to variables, testing can be done in a deterministic and repeatable fashion. Adding the use of real-time kernels and hardware, and some precise timing measurements can be added to your arsenal of tests. Another advantage of scripting multiple test cases is the ability to run a batch of tests, and in many cases, these can be scheduled to run overnight, to give greater

2. Graphical Tools and Languages

There are products on the market which help simplify development and production testing, such as MATLAB™ and Simulink™, created by The Mathworks. Also on the market is LabVIEW™ and TestStand™, which is a graphical programming system and test sequencer. There are other commercial off the

shelf(COTS) solutions to cut down on test development time as well.

3. When to consider automated testing

- Manual testing is getting tedious
- Results are not repeatable
- Labor costs are prohibitive
- System Modeling is already being used to develop the product
- A common platform is desired to test multiple products

RTCubed Consulting, LLC, can help with your Automated Test Equipment(ATE) needs. Our expertise is with applications of the Linux kernel and RT-Linux to real-time test stands, COTS testing products as mentioned above in section 2, and test script development. If you call or e-mail, the first thing we do is to determine if we can help you; we do not try to unnecessarily sell you anything. From our initial contact, we will mutually determine how to proceed. We are available for on and off-site work, but only if scheduled, since our work load is heavy most of the time.

For more information, contact:



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