Advanced TTCN-3 Test Suite validation with Titan

Attila Kovács[a], Kristóf Szabados[b]

[a]Eötvös Loránd University
attila.kovacs@compalg.inf.elte.hu
[b]Ericsson Magyarország Kft.
Kristof.Szabados@ericsson.com

Abstract

As the size and complexity of large software systems has continuously grown, so did their test systems. In today's telecommunication world, we have test systems which are comparable in complexity to that of the tested systems. Some of these test systems have to simulate millions of users, be as robust as the tested systems themselves and provide comparable performance.

To handle working with such testing needs, ETSI (European Telecommunication Standardization Institute) developed the TTCN-3 programming language. TTCN-3 has proved to be very efficient for developing test systems for communication systems.

In this talk we present the research results of analyzing the test software systems publicly available at www.ttcn-3.org. We show issues that we have found by analyzing the semantic level and the code level of that projects. We also present analysis results regarding the architectural level of the test systems.

Keywords: ETSI, TTCN-3, Test Quality

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References

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