Specifying and Testing Software Components using ADL

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Abstract:

This paper presents a novel approach to unit testing of software components. This approach uses the specification language ADL, that is particularly well-suited for testing, to formally document the intended behavior of software components. Another related language, TDD, is used to systematically describe the test-data on which the software components will be tested.

This paper gives a detailed overview of the ADL language, and a brief presentation of the TDD language. Some details of the actual test system are also presented, along with some significant results.

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