Module documentation based testing using grey-box approach

ABSTRACT

Testing plays an important role to assure the quality of software. Testing is a process of detecting errors that can be highly effective if performed rigorously. The use of formal specifications provides significant opportunity to develop effective testing techniques. Greybox testing approach usually based on knowledge obtains from specification and source code while seldom the design specification is concerned. In this paper, we propose an approach for testing a module with internal memory from its formal specification based on grey-box approach. We use formal specifications that are documented using Parnasøs Module Documentation (MD) method. The MD provides us with the information of external and internal view of a module that can be useful in grey-box testing approach.