Abstract

In modern world, we are highly dependent upon computer for most of our works. As we know, all computers are controlled by software. So, to operate a computer in a proper manner, software reliability is very necessary. Software Reliability is the probability of failure-free software operation for a specified period of time in a specified environment. The high complexity of software is the major contributing factor of Software Reliability problems. Various approaches can be used to improve the reliability of software, however, it is hard to balance development time and budget with software reliability. For good reliability, two approaches have to be used, namely, reactive and proactive approach. This paper provides an overview of Software reliability, hardware reliability, reactive and proactive approaches.

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**Index Terms**

Computer Science

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**Keywords**
Software, Reliability, Hardware, Product