Abstract

The reliability allocation and minimum cost of component in a system can be used to solve the allocation problems in components based systems as well as applicable to modular systems. A method is simulated for allocating reliability to each component of a system with a view to minimizing the system cost on specific reliability. There is a need for component developer and users to make these data available to reliability estimator so that the derived results are usefully applied to practical systems. The simulation to show near optimal solution to the problem of selecting the component and comprising the software can be obtained with minimum cost. We simulate different sizes of components and their reliability with minimum cost in a system. Finally we give the importance of how to select reliability and cost of each component in Component-based software.

References

- Srinivasarao. Sabbineni and Kurra Rajasekhararao, "Estimation of Reliability"
Simulation of Allocation of Reliability in Component based System


Index Terms
- Computer Science
- Software Engineering

Keywords
- Component Based System
- Simulation Software
- Software Reliability
- Reliability Allocation
- Reliability Estimation