Abstract

Performance analysis of software systems is becoming an important issue in the software development process. The software systems are evaluated against certain quality requirements, but there are no proper systematic approaches. This paper proposes a simplified approach for software design evaluations. We consider the integration of performance and specification model in developing a tool for quantitative evaluation of software architectures at the design phase of the software life cycle. The tool developed assists in the selection of good and acceptable quantitative designs from the available choices of designs. The application of
the tool is also elaborated with the use of a case study of a simple railway reservation system.

**Reference**


**Index Terms**

Computer Science

Software Engineering

**Key words**

- Performance evaluation
- performance attributes
- UML diagrams
- Layered Queuing Networks