The aspiration of this study is to perform the comparative analysis of static and dynamic metric for structured programming environment. Software metrics is one of the vital tools that can be worn to find significant estimates for software products and directs us in intriguing managerial and technical decisions. Software metrics have become an integral part of software
development and are used during every phase of the software development life cycle. Research in the area of software metrics tends to focus predominantly on static metrics that are obtained by static analysis of the software artifact. But software quality attributes such as execution time, performance and reliability depend on the dynamic activities of the software artifact. With the help of conventional static metrics we are not able to analyze various facts of software’s. It is very important to understand the dynamic behaviour of the program or an application in developing new effective strategies in computer science. This becomes the basis for working on dynamic metrics in place of traditional static metrics. Dynamic metrics gives more accurate result than static metrics as they are able to capture the dynamic behaviour of the software system during measurement.

Reference

- Kuljit Kaur Chahal , Hardeep Singh “Metrics to study symptoms of bad software designs” ACM SIGSOFT Software Engineering Notes (2009) Volume: 34, Issue: 1, Pages: 1
- 12 Steps to Useful Software Metrics by Linda Westfall,
- online www.westfallteam.com/Papers/12_steps_paper.pdf
- 308-320
- Van Doren “Cyclometric Complexity”
- Online web publication access in:
  http://www.sei.cmu.edu/str/decriptions/cyclometric_body.html
Analysis of Static and Dynamic Metrics for Productivity and Time Complexity

Index Terms
Computer Science
Software Engineering

Key words
Software Metric Accuracy
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