Abstract

This paper presents detailed comparisons and analysis of shift-based exact string matching algorithms. The paper proposes comparison among these algorithms on the basis of execution time taken by the algorithms to completely match a given pattern on a given text. The algorithms have been analyzed on the following parameters: length of pattern, length of text, and number of characters in the text. This study will help in selecting the appropriate algorithm to be used in solving a particular real-life problem.

References

6. James Lee Holloway, 1992, Algorithms for string matching with applications in molecular biology, Oregon State University Corvallis, OR, USA
12. David M. Magerman, 1994, NATURAL LANGUAGE PARSING AS STATISTICAL PATTERN RECOGNITION, of computer science and the committee on graduate studies of stanford university in partial fulfillment of the requirements for the degree of doctor of philosophy.

**Index Terms**

Computer Science  
Algorithms

**Keywords**

String Matching, Exact String Matching, Shifting Based, Execution Time, Performance Analysis.