Abstract

Text editing aplication has a close relation with string matching. The string that will be matched is divided into single pattern and multi pattern. The existing word processors implement single pattern string matching because each pattern that is matched assumed as single pattern. In growth of information retrieval is needed multi-pattern string matching to assist user in searching wanted information.

Kind of string matching algorithm is found with it's variant. Knuth-Morris-Pratt (KMP) algorithm is one of the single pattern string matching algorithm. However this algorithm must be done repeatedly counted its pattern to do multi pattern string mathcing. Therefore this algorithm is developed to become Aho Corasick algorithm able to multi pattern string matching in once process. But at implementation, quicker KMP pattern multi time run than Aho Corasick.This Matter is influenced by amount of pattern, length of text, amount of found pattern in text.

Keywords*: string matching, single pattern, multi pattern, Knuth-Morris-Pratt algorithm, Aho Corasick algorithm.*