

Abstract

Web server is a server side computer program that services requests from many users. How if the requests scheduled according to their connection's throughput? Is the web server's performance improved? These are the questions which be the background of this final project.

This final project proposes a scheduling policy for processing of the static HTTP requests in web server. This policy, called Fastest Connection First (FCF), gives priority to HTTP requests based on the throughput of the user's connection. The requests issued through faster connections receive the higher priorities. This final project compares FCF with FIFO policy.

The implementation is on Apache web server and Linux operating system. Experiments are executed in LAN environment.

Results indicate that FCF yields some reductions in delay at web server. These results are in mean response time. The request from low connection experiments a small penalization.

Keywords: web server, throughput, fastest connection first, performance.