

Abstract

HTTP protocol version 1.1 is newer version of HTTP protocol which used by web server and web client application for doing HTTP transaction. Characteristic of HTTP 1.1 is able to handle transaction persistently and support pipelining concept. This protocol generally use TCP as a transport protocol. Pipelined HTTP transaction will be delivered by TCP ordered which is its characteristic. This case can cause HOL blocking condition because TCP couldn't separate HTTP messages independently. Using SCTP as a transport protocol for HTTP application can reduces HOL blocking with use of multistreaming ability from SCTP protocol. Performance result of SCTP using LKSCTP protokol stack in page response time side under network with no loss packet is affectively slower and also produce worse throughput. But under network with loss packet will produce faster page response time and also a better throughput than TCP protocol.

Keywords: HTTP, persistent connection, pipeline, TCP, HOL blocking, SCTP, multistreaming.