Multipath TCP によるデータセンターネットワークの改善
Improving the datacenter network with Multipath TCP

工学系研究科 電気系工学専攻 関谷研究室   修士課程 1 年 37-136482 藤居 翔吾

Abstract- In accordance the explosive growth of smartphone users, Web access based on HTTP/TCP using a Web browser has become an indispensable service. The performance of web browsing depends on the aepect of hardware and software. In order to achieve the speeding up of web access, a lot pf paper are written. However, there are a few researches for reducing the number of HTTP transactions to achieve shorter response time.

In this paper, the researches for reducing the response time are summarized and introduced. The response time of HTTP pipeline and Server Push in SPDY is compared by calculating the number of transactions. By the calculation, this paper concludes that SPDY achieve the fastest web access compared with HTTP pipeline. Some speeding up teqniques of Web access are introduced. The page-loading time can be shortened by about a third.

Index- HTTP pipeline, Server Push, SPDY, Web access, Speeding-up, Round trips

1 Introduction

ここ十年で, Web は私たちの生活に必要不可欠なものになった.