

Optical Switch NameServer



Overview

This paper first summarizes the topologies and traffic characteristics in data centers and analyzes the reasons and importance of moving to optical switching. 1State Key Laboratory of Information Photonics and Optical Communications (IPOC), Beijing University of Posts and Telecommunications, 10 Xitucheng Rd, Bei Tai Ping Zhuang, Haidian Qu, Beijing, 100876, China 2IPI-ECO Research Institute, Eindhoven University of Technology, 5600MB Eindhoven, The. We present a decade of evolution and production experience with Jupiter datacenter network fabrics. In this period Jupiter has delivered 5x higher speed and capacity, 30% reduction in capex, 41% reduction in power, incremental deployment and technology refresh all while serving live production. Optical Circuit Switching (OCS) is the perfect candidate to meet these needs within data centers and AI clusters. However, optical switching faces many challenges to practical adoption.



With support for Software-Defined Networks (SDNs), POLATIS all-optical circuit switches enable extremely low speed-of-light latency for time-critical traffic required by new virtual cloud services in ...



We introduced an optical switched datacenter network interconnection layer (DCNI) to connect the blocks. This layer uses MEMS-based Optical Circuit Switches (OCS) to enable fast, reliable and ...



The authors report an optical switching and control system to synergistically overcome these challenges and provide enhanced performance for data center applications.



Data center networks (DCNs) form the backbone infrastructure of many large-scale enterprise applications as well as emerging cloud computing providers. This paper describes the design, ...



While electronic switches reconfigure quickly enough to route traffic between switch ports at packet-level granularities, optical switches reconfigure much slower—limiting their ability to service latency ...



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