Abstract

In this paper, we propose an efficient deflection routing method to improve the burst loss and throughput performance in Optical Burst Switched (OBS) networks. We show that the proposed scheme gives significant reduction in burst loss rate and considerable improvement in throughput percentage as compared to the conventional technique for optical networks. To improve the burst loss performance, the proposed congestion based algorithm, dynamically determines the congestion level for apposite flow control. The burst sending rate is adjusted by deflecting the burst according to the traffic condition in a network. Ultimately, the proposed scheme achieves considerable reduction in the burst loss rate and high throughput while maintaining acceptable delay and fairness.

References


**Index Terms**

Computer Science

Communications
Keywords
Optical Burst Switching (OBS)  Congestion Control (CC)  Burst Loss Rate (BLR)