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Just-in-time, just-enough-time and horizon signalling protocols on optical burst switches

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Keywords

dynamic wavelength division multiplexing (DWDM), just-in-time (JIT), just-enough-time (JET), horizon signalling protocols, optical burst switch (OBS)

Abstract

Optical burst switch (OBS) is considered to be a promising switch technology for the future network. In this paper, just-in-time (JIT), just-enough-time (JET) and horizon signalling schemes for OBS are presented. These signalling schemes run over a core dynamic wavelength division multiplexing (DWDM) network. The network is proposed to support IP, ATM and burst traffic. We apply the Poisson and self-similar models to identify inter-arrival times in these protocols and the burst contention is handled by burst dropping. As a result, the variety of the simulation results show the pros and cons of the evaluated JIT, JET and horizon signalling schemas.



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