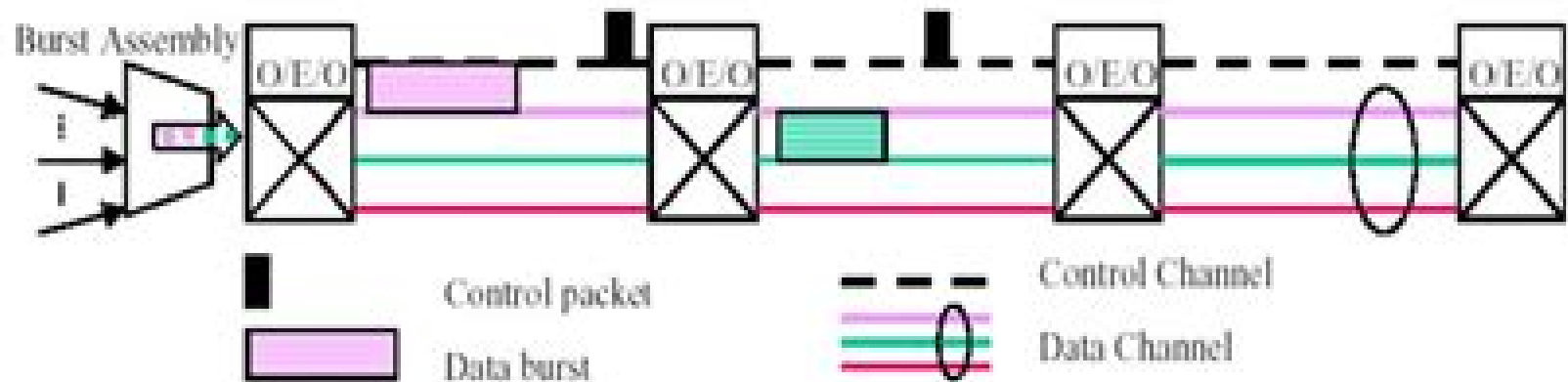


Optical Burst Switched Networks



Optical Burst Switched Networks Optical Networks

Jason P. Jue, Vinod M. Vokkarane



Optical Burst Switched Networks Optical Networks:

Optical Burst Switched Networks Jason P. Jue,Vinod M. Vokkarane,2006-06-07 Next generation high speed Internet backbone networks will be required to support a broad range of emerging applications which may not only require significant bandwidth but may also have strict quality of service QoS requirements Furthermore the traffic from such applications are expected to be highly bursty in nature For such traffic the allocation of static fixed bandwidth circuits may lead to the over provisioning of bandwidth resources in order to meet QoS requirements Optical burst switching OBS is a promising new technique which attempts to address the problem of efficiently allocating resources for bursty traffic In OBS incoming data is assembled into bursts at the edges of the network and when the burst is ready to be sent resources in the network are reserved only for the duration of the burst The reservation of resources is typically made by an out of band one way control message which precedes the burst by some offset time By reserving resources only for the duration of the burst a greater degree of utilization may be achieved in the network This book provides an overview of optical burst switching Design and research issues involved in the development of OBS networks are discussed and approaches to providing QoS in OBS networks are presented Topics include Optical burst switching node and network architectures Burst assembly Signaling protocols Contention resolution Burst scheduling Quality of service in OBS networks Quality of Service in Optical Burst Switched Networks Kee Chaing Chua,Mohan Gurusamy,Yong Liu,Minh Hoang Phung,2007-12-24 Optical Burst Switching OBS offers a promising switching technique to support huge bandwidth requirements in optical backbone networks that use Wavelength Division Multiplexing This book details the quality of service QoS issue in OBS networks It examines the basic mechanisms to improve overall QoS in OBS networks as well as discusses the relative QoS differentiation among multiple service classes in OBS networks Coverage also details absolute QoS provisioning in OBS networks end to end QoS provisioning in OBS networks and some non mainstream research issues and future research directions in OBS networks

Optical Burst Switched Networks Jason P. Jue,Vinod M. Vokkarane,2008-11-01 Next generation high speed Internet backbone networks will be required to support a broad range of emerging applications which may not only require significant bandwidth but may also have strict quality of service QoS requirements Furthermore the traffic from such applications are expected to be highly bursty in nature For such traffic the allocation of static fixed bandwidth circuits may lead to the over provisioning of bandwidth resources in order to meet QoS requirements Optical burst switching OBS is a promising new technique which attempts to address the problem of efficiently allocating resources for bursty traffic In OBS incoming data is assembled into bursts at the edges of the network and when the burst is ready to be sent resources in the network are reserved only for the duration of the burst The reservation of resources is typically made by an out of band one way control message which precedes the burst by some offset time By reserving resources only for the duration of the burst a greater degree of utilization may be achieved in the network This book provides an overview of optical burst switching Design and

research issues involved in the development of OBS networks are discussed and approaches to providing QoS in OBS networks are presented Topics include Optical burst switching node and network architectures Burst assembly Signaling protocols Contention resolution Burst scheduling Quality of service in OBS networks **An Analytical Approach to**

Optical Burst Switched Networks T. Venkatesh,C. Siva Ram Murthy,2010-03-16 This book presents the state of the art results on modeling and analysis of OBS networks It provides researchers with new directions for future research and helps them gain a better understanding of modeling OBS networks This book classifies all the literature on modeling and analysis of OBS networks and serves as a thought provoking material for the researchers working on the analysis of high speed networks The scope of this book however is not limited to OBS networks alone but extends to high speed communication networks with limited or no buffers Performance Analysis of Optical Burst Switched Networks Lisong Xu,2002 Keywords

optical networks protocol design queuing theory optical burst switching performance analysis **Enabling Optical Internet with Advanced Network Technologies** Javier Aracil,Franco Callegati,2009-06-20 This book provides a broad overview of IP over WDM technologies as seen by a group of experts participating in the e Photon ONeC and BONE Networks of Excellence funded within the VIth and VIIth Research Framework Programmes FP6 and FP7 of the European Union Both Networks of Excellence are aimed at the integration of research teams active on optical networks at a pan European level with the creation of virtual centers of excellence in optical networks technologies and services The working groups on optical core networks gathered about a 100 researchers from more than 20 universities and research institutions in Europe The multifaceted viewpoints available in this community on the current state and future evolution of large WDM networking infrastructures are reported in this book The book is organized in chapters with chapter editors listed on pp having the responsibility to collect and harmonize contributions by different search groups The whole work was made possible by the coordination efforts of Javier Aracil and Franco Callegati leaders at the time when the book writing was begun of the working groups on optical core networks and on optical burst switching in e Photon ONeC We are thankful to them for their efforts We hope that this manuscript will serve as a valuable reference for students and practitioners in the field of optical networking

Performance Analysis of Optical Burst Switched Networks with Dynamic Simultaneous Link Possession ,2004 Given the current state of the technology the Optical Burst Switched OBS architecture is a practical optical switching solution for the optical networks In OBS the user data is transmitted in variable size data units called bursts which travel as an optical signal along the entire route The control information for each burst is transmitted prior to its corresponding burst and it is electronically processed at each hop along the route The dynamic nature of OBS allows for network adaptability and scalability which makes it very suitable for the transmission of bursty traffic In this thesis we study and analyze the performance of OBS networks We consider the case when the bursts are large enough to simultaneously hold wavelengths on multiple links along the route Since the size of the bursts varies and the link distance between two adjacent network nodes

also varies a burst may simultaneously occupy wavelengths on a variable number of links as it travels from its source to its destination As the burst propagates through the network it dynamically acquires and releases wavelengths from link to link In this thesis we propose queueing network models that feature dynamic simultaneous link possession and analyze them in order to obtain the end to end burst loss probabilities This thesis is structured into five parts In the first part we describe the Optical Burst Switch architecture and summarize its main design components In the second part we define and motivate the simultaneous link possession problem In the third part we study an OBS network where the bursts are large enough to simultaneously hold wavelengths on one or two consecutive links In the fourth part of this thesis we analytically study an OBS network with simultaneous link possession and a very large number of wavelengths per link In the fifth part we address the problem of how to analytically evaluate the performance of OBS networks when the arrival traffic is bursty

Quality of Service in Optical Burst Switched Networks Kee Chaing Chua, Mohan Gurusamy, Yong Liu, Minh Hoang Phung, 2008-11-01

Optical Burst Switching OBS offers a promising switching technique to support huge bandwidth requirements in optical backbone networks that use Wavelength Division Multiplexing This book details the quality of service QoS issue in OBS networks It examines the basic mechanisms to improve overall QoS in OBS networks as well as discusses the relative QoS differentiation among multiple service classes in OBS networks Coverage also details absolute QoS provisioning in OBS networks end to end QoS provisioning in OBS networks and some non mainstream research issues and future research directions in OBS networks

Optical Switching Networks Martin Maier, 2008-02-11

Optical Switching Networks describes all the major switching paradigms developed for modern optical networks discussing their operation advantages disadvantages and implementation Following a review of the evolution of optical WDM networks an overview of the future trends out The latest developments in optical access local metropolitan and wide area networks are covered including detailed technical descriptions of generalized multiprotocol label switching waveband switching photonic slot routing optical flow burst and packet switching The convergence of optical and wireless access networks is also discussed as are the IEEE 802.17 Resilient Packet Ring and IEEE 802.3ah Ethernet passive optical network standards and their WDM upgraded derivatives The feasibility challenges and potential of next generation optical networks are described in a survey of state of the art optical networking testbeds Animations showing how the key optical switching techniques work are available via the web as are lecture slides www.cambridge.org/9780521868006

Quality of Service in Optical Packet Switched Networks Akbar G. Rahbar, 2015-01-23

This book is a comprehensive study on OPS networks its architectures and developed techniques for improving its quality of switching and managing quality of service The book includes Introduction to OPS networks OOFDM networks GMPLS enabled optical networks QoS in OPS networks Hybrid contention avoidance resolution schemes in both long haul and metro optical networks Hybrid optical switching schemes

Providing High Throughput and Controllable Performance in Burst-switched Optical Networks Neil Barakat, 2006

In this thesis I examine the problem

of providing high throughput and controllable and predictable performance in OBS networks I present new analytical models which for the first time allow one to quantify precisely the effect of offsets on the performance of OBS networks I then present a new OBS signaling architecture called dual header optical burst switching DOBS which allows for precise control of offsets in every node of the network I show how DOBS signalling can reduce the complexity of core node burst schedulers from $O \log W$ to $O 1$ where W is the number of wavelengths in the system I also present a new scheduling algorithm that minimizes burst blocking in core nodes of a DOBS network This allows the system to support an offered load that is between 10% and 50% higher than that of a single header OBS system for a given target blocking probability By increasing the understanding of the effect of OBS offsets and by providing mechanisms by which they can be precisely controlled the contributions of this work provide OBS researchers with a powerful toolset for providing the reliable and predictable end to end performance guarantees required by next generation Internet applications and brings optical burst switching one step closer to commercial viability Optical fiber networks and in particular wavelength division multiplexing are the only technologies capable of supporting the huge bandwidth demand that has accompanied the explosive growth of the Internet Optical burst switching OBS has emerged as a very promising candidate architecture for next generation optical networks because it combines the simple optical technology of optical circuit switching with the flexibility and bandwidth efficiency of optical packet switching The most distinguishing feature of OBS is the use of a time offset between the header and payload of each burst These offsets allow for the time required to perform switching and forwarding operations in each node and directly affect the complexity throughput performance and end to end delay of OBS systems

Performance Analysis of Optical Burst Switched Networks with Dynamic Simultaneous Link Possession Tzvetelina Battestilli, 2005 Keywords simultaneous possession queueing network optical networks optical burst switching performance evaluation **Optical Communications And Networks (With Cd-rom): Proceedings Of The First International Conference On Icofn 2002**

Cambyse Guy Omidyar, W D Zhong, Hooshang Ghafouri-shiraz, 2002-10-23 Optical communications networks are becoming increasingly important as there is demand for high capacity links Dense wavelength division multiplexing DWDM is widely deployed at the core networks to accommodate high capacity transport systems Optical components such as optical amplifiers tunable filters transceivers termination devices and add drop multiplexers are becoming more reliable and affordable Access and metropolitan area networks are increasingly built with optical technologies to overcome the electronic bottleneck at network edges New components and subsystems for very high speed optical networks offer new design options The proceedings of the First International Conference on Optical Communications and Networks present high quality recent research results in the areas of optical communications network components architectures protocols planning design management and operation **Network Control and Engineering for QoS, Security and Mobility**, V Dominique Gaiti, 2007-01-26 The increasing demand for sophisticated network applications allied to the growth of the Internet traffic has

lead to great efforts in the search of improvements in data transmission technologies with the intention of satisfying the increasing demand for bandwidth. So far as optical networking is concerned WDM Wavelength Division Multiplexing appears as the main advance in the transmission area because it allows transmission rates near to the theoretical limit of optical fibers of the order of dozens of terabits a second.

1 An essential issue in optical network design is defining how the network will be controlled that is what type of signalling will be responsible for resource reservation route determination and fault handling among other functions that constitute the control plane. Label switching which in IP networks is exemplified by MPLS Multiprotocol Label Switching

2 was extended through GMPLS Generalized Multiprotocol Label Switching

3 to operate with several different network technologies where the label can be represented in other ways for example as time slots in TDM networks as physical switch ports and as wavelengths λ s in WDM networks

Broadband Communications, Networks and Systems Ioannis Tomkos, Georgios Ellinas, Prasun Sinha, 2012-05-01 This book constitutes the thoroughly refereed post conference proceedings of the 7th International ICST Conference on Broadband Communications Networks and Systems BROADNETS 2010 held in October 2010 in Athens Greece. The 39 revised full papers were carefully selected from numerous submissions. The conference was divided in 3 tracks: Optical, Wireless and Internet. The optical track covers topics such as optical switch architectures, reliable optical networking, routing, wavelength assignment and traffic grooming, network control and management. The wireless track highlights MIMO and OFDM techniques, mobility management, routing protocols, hybrid networks and the internet track covers routing, scheduling, security, trust, semantic technologies and social networks.

Loss-free Architectures in Optical Burst Switched Networks for a Reliable and Dynamic Optical Layer Thomas Coutelen, 2010

High Speed Networks and Multimedia Communications Zoubir Mammeri, Pascal Lorenz, 2004-09-21 Nowadays networks and telecommunications are two of the most active fields. Research and development in these areas have been going on for some time reaching the stage of products. The objectives of HSNMC 2004 International Conference on High Speed Networks and Multimedia Communications were to promote research and development activities and to encourage communication between academic researchers and engineers throughout the world in the areas related to high speed networks and multimedia communications. The seventh edition of HSNMC was held in Toulouse France on June 30 July 2 2004. There were 266 submissions to HSNMC this year from 34 countries which were evaluated by program committee members assisted by external viewers. Each paper was reviewed by several reviewers. One hundred and one papers were selected to be included in these proceedings. The quality of submissions was high and the committee had to decline some papers worthy for publication. The papers selected in this book illustrate the state of the art, current discussions and development trends in the areas of networks, telecommunication and multimedia applications. The contributions published in this book underline the international importance of the related field of research. They cover a variety of topics such as QoS in Diff-Serv networks, QoS analysis and measurement, performance modelling, TCP modelling and analysis, MPLS for QoS

provision scheduling and resource allocation routing multicast security and privacy issues peer to peer applications video applications software and middleware for networks mobile networks mobility satellite mobile IP wireless networks WLAN ad hoc networks 3G UMTS IEEE 802 **Optical Networks and Technologies** Ken-ichi Kitayama, Francesco

Masetti-Placci, Giancarlo Prati, 2006-03-12 There has continuously been a massive growth of Internet traffic for these years despite the bubble burst in year 2000 As the telecom market is gradually picking up it would be a consensus in telecom and data com industries that the CAPEX Capital Expenditures to rebuild the network infrastructure to cope with this traffic growth would be imminent while the OPEX Operational Expenditures has to be within a tight constraint Therefore the newly built 21st century network has to fully evolve from voice oriented legacy networks not only by increasing the transmission capacity of WDM links but also by introducing switching technologies in optical domain to provide full connectivity to support a wide variety of services This book stems from the technical contributions presented at the Optical Networks and Technology Conference OpNeTec inaugurated this year 2004 in Pisa Italy and collects innovations of optical network technologies toward the 21st century network High quality recent research results on optical networks and related technologies are presented including IP over WDM integration burst and packet switchings control and managements operation metro and access networks and components and devices in the perspective of network application An effort has been made throughout the conference hopefully reflected at least partially in this book to bring together researchers scientists and engineers working both academia and industries to discuss the relative impact of networks on technologies and vice versa with a vision of the future **Springer Handbook of Optical Networks** Biswanath Mukherjee, Ioannis

Tomkos, Massimo Tornatore, Peter Winzer, Yongli Zhao, 2020-10-15 This handbook is an authoritative comprehensive reference on optical networks the backbone of today's communication and information society The book reviews the many underlying technologies that enable the global optical communications infrastructure but also explains current research trends targeted towards continued capacity scaling and enhanced networking flexibility in support of an unabated traffic growth fueled by ever emerging new applications The book is divided into four parts Optical Subsystems for Transmission and Switching Core Networks Datacenter and Super Computer Networking and Optical Access and Wireless Networks Each chapter is written by world renowned experts that represent academia industry and international government and regulatory agencies Every chapter provides a complete picture of its field from entry level information to a snapshot of the respective state of the art technologies to emerging research trends providing something useful for the novice who wants to get familiar with the field to the expert who wants to get a concise view of future trends *Information Networking. Networking Technologies for Broadband and Mobile Networks* Hyun-Kook Kahng, Shigeki Goto, 2004-08-31 This book constitutes the thoroughly refereed post proceedings of the International Conference on Information Networking ICOIN 2004 held in Busan Korea in February 2004 The 104 revised full papers presented were carefully selected during two rounds of reviewing and revision The papers

are organized in topical sections on mobile Internet and ubiquitous computing QoS measurement and performance analysis
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