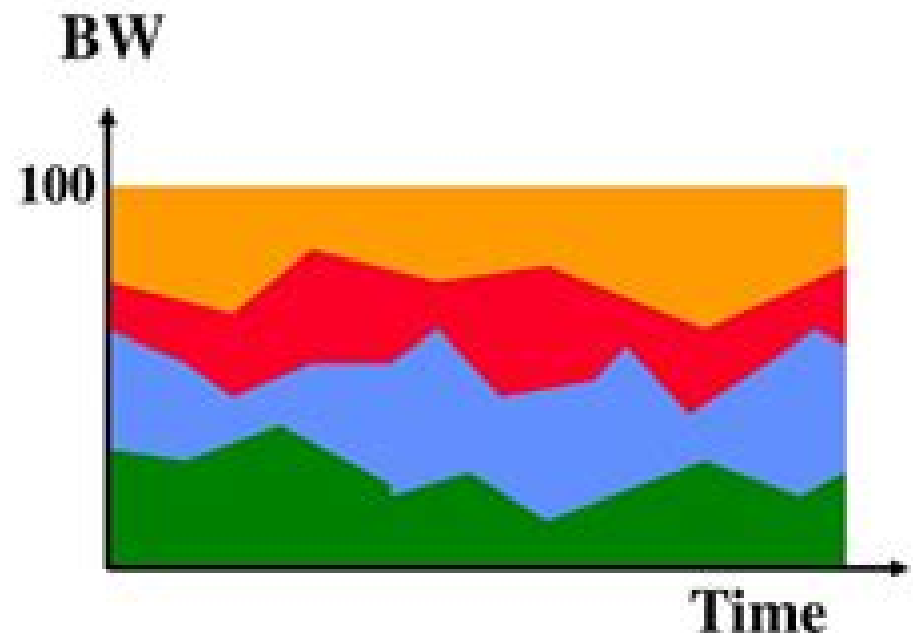


Bandwidth Sharing

- Bandwidth received on the bottleneck link determines end-to-end throughput.
- Router before the bottleneck link decides how much bandwidth each user gets.
 - » Users that try to send at a higher rate will see packet loss
- User bandwidth can fluctuate quickly as flows are added or end, or as flows change their transmit rate.



Sharing Bandwidth

Loi Lei Lai



Sharing Bandwidth:

Advances in Computer Science, Engineering and Applications David C. Wyld, Jan Zizka, Dhinakaran Nagamalai, 2012-05-17
The International conference series on Computer Science Engineering Applications ICCSEA aims to bring together researchers and practitioners from academia and industry to focus on understanding computer science engineering and applications and to establish new collaborations in these areas The Second International Conference on Computer Science Engineering Applications ICCSEA 2012 held in Delhi India during May 25 27 2012 attracted many local and international delegates presenting a balanced mixture of intellect and research both from the East and from the West Upon a strenuous peer review process the best submissions were selected leading to an exciting rich and a high quality technical conference program which featured high impact presentations in the latest developments of various areas of computer science engineering and applications research **IPTV- To be or Not to Be?** , , *Illegal Online File Sharing, Decision-Analysis, and the Pricing of Digital Goods* Michael I. C. Nwogugu, 2016-11-03 Illegal online file sharing costs companies tens of billions of dollars of lost revenues around the world annually and results in lost productivity various psychological issues and significant reduction of incentives to create and innovate Legislative technical and enforcement efforts have failed This book presents psychological theories about why people illegally share files online analyzes and characterizes optimal sanctions for illegal online file sharing introduces new models for pricing of network access and digital content to help reduce illegal online file sharing introduces new content control and P2P systems and explains why game theory does not work in pricing of network access Traffic Engineering and QoS Optimization of Integrated Voice and Data Networks Gerald R. Ash, 2006-11-03 This book describes analyzes and recommends traffic engineering TE and quality of service QoS optimization methods for integrated voice data dynamic routing networks These functions control a network's response to traffic demands and other stimuli such as link failures or node failures TE and QoS optimization is concerned with measurement modeling characterization and control of network traffic and the application of techniques to achieve specific performance objectives The scope of the analysis and recommendations include dimensioning call flow and connection routing QoS resource management routing table management dynamic transport routing and operational requirements Case studies are included which provide the reader with a concrete way into the technical details and highlight why and how to use the techniques described in the book Includes Case Studies of MPLS and GMPLS Network Optimization Presents state of the art traffic engineering and quality of service optimization methods and illustrates the tradeoffs between the various methods discussed Contains practical Case Studies based on large scale service provider implementations and architecture plans Written by a highly respected and well known active expert in traffic engineering and quality of service **Wired/Wireless Internet Communications** Xavier Masip-Bruin, Dominique Verchere, Vassilis Tsaoussidis, Marcelo Yannuzzi, 2011-06-27 This book constitutes the proceedings of the 9th IFIP TC 6 International Conference on Wired Wireless

Internet Communications WWIC 2011 held in Vilanova i la Geltrú Spain in June 2011 The 26 contributions included were carefully reviewed and selected from 50 submissions In addition the book contains 15 invited papers The contributions are structured in topical sections on mobility and LTE networks performance and simulation analysis adaptive approaches to guarantee E2E network services energy efficiency and cooperation in wireless networks transmission and management quality through routing naming and control wireless multi hop communications challenges in the future internet and emerging contributions

IBM SAN Volume Controller Best Practices and Performance Guidelines Anil K Nayak, Antonio Rainero, Barry Whyte, Chris Hoffmann, Danilo Morelli Miyasiro, David Green, Duane Bolland, Jackson Shea, Jon Herd, Jordan Fincher, Marcelo Avalos, Sergey Kubin, Sidney Varoni Junior, Thales Noivo Ferreira, Vasfi Gucer, IBM Redbooks, 2021-10-13 This IBM Redbooks publication describes several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM SAN Volume Controller powered by IBM Spectrum Virtualize V8.4 These practices are based on field experience This book highlights configuration guidelines and preferred practices for the storage area network SAN topology clustered system back end storage storage pools and managed disks volumes Remote Copy services and hosts Then it provides performance guidelines for IBM SAN Volume Controller back end storage and applications It explains how you can optimize disk performance with the IBM System Storage Easy Tier function It also provides preferred practices for monitoring maintaining and troubleshooting IBM SAN Volume Controller This book is intended for experienced storage SAN and IBM SAN Volume Controller administrators and technicians Understanding this book requires advanced knowledge of the IBM SAN Volume Controller IBM FlashSystem and SAN environments

IBM SAN Volume Controller Best Practices and Performance Guidelines for IBM Spectrum Virtualize Version 8.4.2 Antonio Rainero, Carlton Beatty, David Green, Hartmut Lonzer, Jonathan Wilkie, Kendall Williams, Konrad Trojok, Mandy Stevens, Nezih Boyacioglu, Nils Olsson, Renato Santos, Rene Oehme, Sergey Kubin, Thales Noivo Ferreira, Uwe Schreiber, Vasfi Gucer, IBM Redbooks, 2022-01-17 This IBM Redbooks publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM SAN Volume Controller powered by IBM Spectrum Virtualize Version 8.4.2 These practices are based on field experience This book highlights configuration guidelines and preferred practices for the storage area network SAN topology clustered system back end storage storage pools and managed disks volumes Remote Copy services and hosts It explains how you can optimize disk performance with the IBM System Storage Easy Tier function It also provides preferred practices for monitoring maintaining and troubleshooting This book is intended for experienced storage SAN IBM FlashSystem IBM SAN Volume Controller and IBM Storwize administrators and technicians Understanding this book requires advanced knowledge of these environments

Game Theory Applications in Network Design Kim, Sungwook, 2014-05-31 The use of game theoretic techniques is playing an increasingly important role in the network design domain Understanding the background concepts and principles in using game theory approaches is necessary for engineers

in network design Game Theory Applications in Network Design provides the basic idea of game theory and the fundamental understanding of game theoretic interactions among network entities The material in this book also covers recent advances and open issues offering game theoretic solutions for specific network design issues This publication will benefit students educators research strategists scientists researchers and engineers in the field of network design **Game Theory:**

Breakthroughs in Research and Practice Management Association, Information Resources,2017-06-19 Developments in the use of game theory have impacted multiple fields and created opportunities for new applications With the ubiquity of these developments there is an increase in the overall utilization of this approach Game Theory Breakthroughs in Research and Practice contains a compendium of the latest academic material on the usage strategies and applications for implementing game theory across a variety of industries and fields Including innovative studies on economics military strategy and political science this multi volume book is an ideal source for professionals practitioners graduate students academics and researchers interested in the applications of game theory **Power System Restructuring and**

Deregulation Loi Lei Lai,2001-11-28 The restructuring and deregulation of the power utility industry is resulting in significant competitive technological and regulatory changes Independent power producers power marketers and brokers have added a new and significant dimension to the task of maintaining a reliable electric system Power System Restructuring and Deregulation provides comprehensive coverage of the technological advances which have helped redesign the ways in which utility companies manage their business With the aid of practical case studies an international panel of contributors address the most up to date problems and their solutions in a cohesive manner making this book indispensable to graduates and engineers in the power industry field Presents state of the art techniques in power industry restructuring Includes applications of new technology in power industry deregulation Includes practical examples of changes in load forecasting techniques and methods International contributors offer a global perspective detailing power utility restructuring and deregulation from various countries *Design of Reservation Protocols for Multimedia Communication* Luca

Delgrossi,2012-12-06 The advent of multimedia technology is creating a number of new problems in the fields of computer and communication systems Perhaps the most important of these problems in communication and certainly the most interesting is that of designing networks to carry multimedia traffic including digital audio and video with acceptable quality The main challenge in integrating the different services needed by the different types of traffic into the same network an objective that is made worthwhile by its obvious economic advantages is to satisfy the performance requirements of continuous media applications as the quality of audio and video streams at the receiver can be guaranteed only if bounds on delay delay jitters bandwidth and reliability are guaranteed by the network Since such guarantees cannot be provided by traditional packet switching technology a number of researchers and research groups during the last several years have tried to meet the challenge by proposing new protocols or modifications of old ones to make packet switching networks capable of

delivering audio and video with good quality while carrying all sorts of other traffic The focus of this book is on HeiTS the Heidelberg Transport System and its contributions to integrated services network design The HeiTS architecture is based on using the Internet Stream Protocol Version 2 ST II at the network layer The Heidelberg researchers were the first to implement ST II The author documents this activity in the book and provides thorough coverage of the improvements made to the protocol The book also includes coverage of HeiTP as used in error handling error control congestion control and the full specification of ST2 a new version of ST II The ideas and techniques implemented by the Heidelberg group and their coverage in this volume apply to many other approaches to multimedia networking

IPTV: The Telco's New Light Sword , FTTP- The New Standard and How it is Changing- Already , Performance Evaluation and Planning Methods for the Next Generation Internet Andre Girard, Brunilde Sansò, Felida Vazquez-Abad, 2006-03-30 GERAD celebrates this year its 25th anniversary The Center was created in 1980 by a small group of professors and researchers of HEC Montreal McGill University and of the Ecole Polytechnique de Montreal GERAD s activities achieved sufficient scope to justify its conversion in June 1988 into a Joint Research Centre of HEC Montreal the Ecole Polytechnique de Montreal and McGill University In 1996 the Université du Québec à Montreal joined these three institutions GERAD has fifty members professors more than twenty research associates and post doctoral students and more than two hundreds master and Ph D students GERAD is a multi university center and a vital forum for the development of operations research Its mission is defined around the following four complementarily objectives The original and expert contribution to all research fields in GERAD s area of expertise The dissemination of research results in the best scientific outlets as well as in the society in general The training of graduate students and post doctoral researchers The contribution to the economic community by solving important problems and providing transferable tools

Real-time Systems Scheduling 2 Maryline Chetto, 2014-09-10 Real time systems are used in a wide range of applications including control sensing multimedia etc Scheduling is a central problem for these computing communication systems since it is responsible for software execution in a timely manner This book the second of two volumes on the subject brings together knowledge on specific topics and discusses the recent advances for some of them It addresses foundations as well as the latest advances and findings in real time scheduling giving comprehensive references to important papers but the chapters are short and not overloaded with confusing details Coverage includes scheduling approaches for networks and for energy autonomous systems Other sophisticated issues such as feedback control scheduling and probabilistic scheduling are also addressed This book can serve as a textbook for courses on the topic in bachelor s degrees and in more advanced master s degree programs It also provides a reference for computer scientists and engineers involved in the design or the development of Cyber Physical Systems which require up to date real time scheduling solutions

Advances in Computing Science - ASIAN 2002: Internet Computing and Modeling, Grid Computing, Peer-to-Peer Computing, and Cluster Computing Jean-Marie Alain, 2003-07-01 This book constitutes

the refereed proceedings of the 7th Asian Computing Science Conference ASIAN 2002 held in Hanoi Vietnam in December 2002 The 17 revised full papers presented together with two invited contributions were carefully reviewed and selected from 30 submissions The conference was devoted to Internet computing and modeling grid computing peer to peer systems and cluster computing Among the issues addressed are scalable infrastructure for global data grids distributed checkpointing list coloring parallel debugging combinatorial optimization video on demand servers caching grid environments network enabled servers multicast communication dynamic resource allocation traffic engineering path vector protocols Web based Internet broadcasting Web based middleware and subscription based Internet services

Cases on Information Technology

Entrepreneurship Medina-Garrido, Jose-Aurelio, Martinez-Fierro, Salustiano, Ruiz-Navarro, Jose, 2007-09-30 Cases on Information Technology and Entrepreneurship is a cutting edge look into how IT can be the structural foundation of an entrepreneurship describing specific examples of IT as the base of a start up company and demonstrating how using IT as a strategic advantage entrepreneurs can quickly move toward achieving their business goals

On-Chip Networks Natalie Enright Jerger, Tushar Krishna, Li-Shiuan Peh, 2017-06-19 This book targets engineers and researchers familiar with basic computer architecture concepts who are interested in learning about on chip networks This work is designed to be a short synthesis of the most critical concepts in on chip network design It is a resource for both understanding on chip network basics and for providing an overview of state of the art research in on chip networks We believe that an overview that teaches both fundamental concepts and highlights state of the art designs will be of great value to both graduate students and industry engineers While not an exhaustive text we hope to illuminate fundamental concepts for the reader as well as identify trends and gaps in on chip network research With the rapid advances in this field we felt it was timely to update and review the state of the art in this second edition We introduce two new chapters at the end of the book We have updated the latest research of the past years throughout the book and also expanded our coverage of fundamental concepts to include several research ideas that have now made their way into products and in our opinion should be textbook concepts that all on chip network practitioners should know For example these fundamental concepts include message passing multicast routing and bubble flow control schemes

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