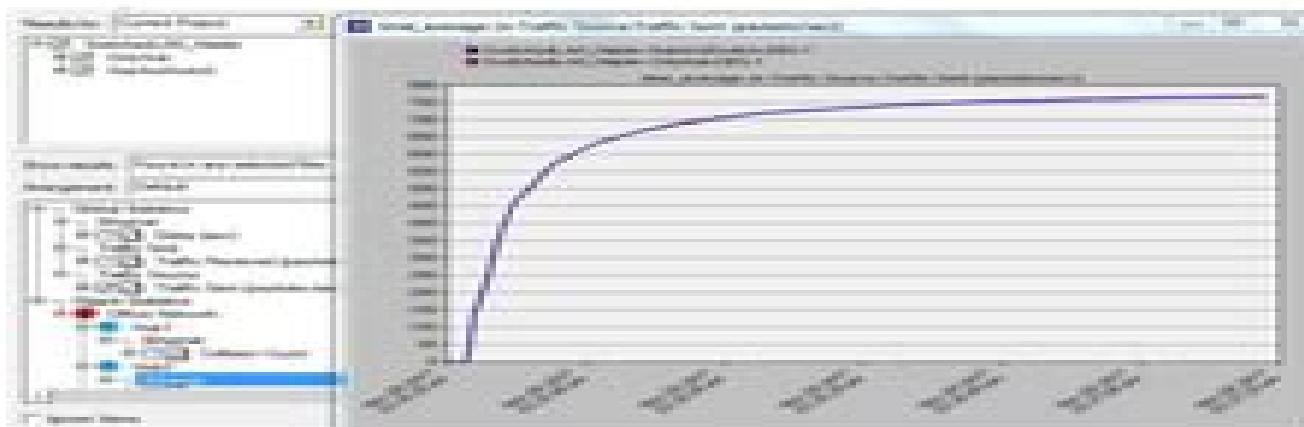


The Traffic Received (packet/sec)

3) Comparing and Analyzing the Results for HubOnly and MultiSwitch Analysis:**a.) Traffic Sent:**

The traffic sent is same in both cases they're sending the same amount of packets.



The Traffic Sent (packet/sec)

Opnet Lab Manual Lab 3 Solutions

Rachel Sandford

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Network Simulation Experiments Manual Emad Aboelela,2011-04-13 Network Simulation Experiments Manual Third Edition is a practical tool containing detailed simulation based experiments to help students and professionals learn about key concepts in computer networking It allows the networking professional to visualize how computer networks work with the aid of a software tool called OPNET to simulate network function OPNET provides a virtual environment for modeling analyzing and predicting the performance of IT infrastructures including applications servers and networking technologies It can be downloaded free of charge and is easy to install The book's simulation approach provides a virtual environment for a wide range of desirable features such as modeling a network based on specified criteria and analyzing its performance under different scenarios The experiments include the basics of using OPNET IT Guru Academic Edition operation of the Ethernet network partitioning of a physical network into separate logical networks using virtual local area networks VLANs and the basics of network design Also covered are congestion control algorithms implemented by the Transmission Control Protocol TCP the effects of various queuing disciplines on packet delivery and delay for different services and the role of firewalls and virtual private networks VPNs in providing security to shared public networks Each experiment in this updated edition is accompanied by review questions a lab report and exercises Networking designers and professionals as well as graduate students will find this manual extremely helpful Updated and expanded by an instructor who has used OPNET simulation tools in his classroom for numerous demonstrations and real world scenarios Software download based on an award winning product made by OPNET Technologies Inc whose software is used by thousands of commercial and government organizations worldwide and by over 500 universities Useful experimentation for professionals in the workplace who are interested in learning and demonstrating the capability of evaluating different commercial networking products i.e Cisco routers Covers the core networking topologies and includes assignments on Switched LANs Network Design CSMA RIP TCP Queuing Disciplines Web Caching etc

Service Robotics within the Digital Home Ignacio González Alonso,Mercedes Fernández,José M. Maestre,María del Pilar Almudena García Fuente,2011-06-27 This book provides the reader with a clear and precise description of robotics and other systems for home automation currently on the market and discusses their interoperability and perspectives for the near future It shows the different standards and the development platforms used by the main service robots in an international environment This volume provides a scientific basis for the user who is looking for the best option to suit his or her needs from the available alternatives to integrate modern technology in the digital home

Research, Practice, and Educational Advancements in Telecommunications and Networking Bartolacci, Michael, Powell, Steven R.,2012-01-31 The study of telecommunications and networking allows us to understand existing modes of communication and information transfer while also developing new methods for managing, modeling and regulating the exchange of information Research Practice and Educational Advancements in Telecommunications and Networking offers

multidisciplinary perspectives on architectures and systems for effective efficient communication across different types of infrastructures which include online and wireless networks Collecting research on mobile ad hoc networks VoIP and mobile recommendation systems this book provides theoretical discussions as well as practical research on new and emerging developments in telecommunications and networking **Information and Communication Technologies** Robert

Szabo,Attila Vidacs,2012-08-07 This book constitutes the refereed proceedings of the 18th EUNICE 2012 conference on information and communication technologies held in Budapest in August 2012 The 23 oral papers demonstrated together with 15 poster presentations were carefully reviewed and selected from 48 submissions The papers are organized in topical sections on radio communications security management protocols and performance algorithms models and simulations

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West Marquis Who's Who,2001-11 *Network Simulation Experiments Manual* Emad Aboelela,2003-07-10 The lab exercises contained in the network simulation experiments manual are based on the OPNET simulator v 9 a network simulation tool that was originally developed at M I T It provides networking professionals with the option of implementing experiments from their homes or workplaces and the lab manual comes with directions for downloading the free easy to install software special version to this book only see system requirements below These labs run through simulations closely tied to the material in the text so that you can visualize the discussions covering core network topologies Various scenarios are presented within each topology and review questions and a lab report exercise accompany each lab experiment The experiments also follows the organization of Computer Networks Third Edition by Larry Peterson and Bruce Davie System requirements for using the OPNET IT Guru Academic Edition release 9 1 Intel Pentium III 4 or compatible 500 MHz or better 256 MB RAM 400 MB disk space Display 1024 x 768 or higher resolution 256 or more colors The English language version of the following operating systems are supported Microsoft Windows NT Service Pack 3 5 or 6a Windows 2000 Service Pack 1 and 2 are supported but not required Windows XP Service Pack 1 is required Written by an instructor who has used OPNET simulation tools in his classroom for numerous demonstrations and real world scenarios Software download based on an award winning product made by OPNET Technologies Inc whose software is used by thousands of commercial and government organizations worldwide and by over 500 universities Useful experimentation for professionals in the workplace who are interested in learning demonstrating the capability of evaluating different commercial networking products i e Cisco routers Covers the core networking topologies and includes assignments on the ethernet token rings ATM Switched LANs Network Design RIP TCP Queuing Disciplines QoS etc Instructors can download the solutions manual to the exercises in the Network Simulation Experiments Manual by clicking on the Instructors resource link in the upper right corner of the screen and searching for author Aboelela

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