

Simulation of Local Area Networks

Matthew N. O. Sadiku, Mohammad Ilyas

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Matthew N. O. Sadiku



Simulation Of Local Area Networks:

Simulation of Local Area Networks Matthew N. O. Sadiku, 2018-01-18 A fast growing area in the communications industry is the internetworking of an ever increasing proliferation of computers particularly via local area networks LANs The LAN is a resource sharing data communications network being used by many offices to interchange information such as electronic mail word processing and files among computers and other devices This unique book shows the user how to establish the performance characteristics of a LAN before putting it to use in a particular type of situation Simulation of Local Area Networks consists of eight chapters each with its own extensive list of references The first chapter provides a brief review of local area networks and the second chapter gives the analytical models of popular LANs token passing bus and ring networks CSMA CD LANs and star networks Chapter 3 covers general principles of simulation and Chapter 4 discusses fundamental concepts in probability and statistics relating to simulation modeling Materials in Chapters 3 and 4 are specifically applied in developing simulation models on token passing LANs CSMA CD LANs and star LANs in Chapters 5 through 7 The computer code in Chapters 5 6 and 7 is divided into segments and a detailed explanation of each segment is provided The last chapter reviews special purpose languages such as GPSS SIMSCRIPT GASP SIMULA SLAM and RESQ Helpful criteria for language selection are included The entire code is put together in the appendixes This book has two major advantages over existing texts First it uses C a well developed general purpose language that is familiar to most analysts Second the text specifically applies the simulation principles to local area networks No other book available shows the systems analyst how to evaluate the performance of existing or proposed systems under different kinds of conditions

Wireless Local Area Networks Efstathios D. Kyriakidis, 1998 Wireless communication is currently in a state of rapid evolution This evolution is driven by the numerous advantages of the wireless networks One major constraint to this evolution is the lack of standardization Also a major concern are the interference problems of the signal at the reception point caused by the multiple paths that the electromagnetic waves travel multi path interference This thesis presents two separate simulations In the first a realistic physical model of a wireless local area network is developed In this simulation the multi path interference at the reception point is investigated The results of this physics based simulation are used to assess an important assumption in the second simulation In the second simulation we examine the reliability of the wireless standard for the medium access control MAC layer using CACI COMNET ffi network simulation software This standard was published in 1997 by the IEEE s working group 802 11 and in this thesis is tested and analyzed under different network loads One major result is that the optimum load for a five working stations wireless LAN is from 80 to 200 packets per second Below that load range the channel utilization is small and above that the network is overloaded

Modeling and Analysis of Local Area Networks Paul J. Fortier, 2018-05-04 Modeling and Analysis of Local Area Networks fills a void in the array of books on Local Area Networks LANs in that it reviews the state of LAN technology from a hardware and software perspective

develops a set of metrics that can be used to evaluate LANs for end applications and investigates methodologies for evaluating LANs from these perspectives The book discusses LAN evaluation techniques utilizing analysis operational analysis hardware testbeds and simulations Simulations will be stressed in greater detail and a tool available for evaluating LANs performance called MALAN is presented and the details of its structure developed *Modeling and Analysis of Local Area Networks* Paul J. Fortier,2018-05-04 *Modeling and Analysis of Local Area Networks* fills a void in the array of books on Local Area Networks LANs in that it reviews the state of LAN technology from a hardware and software perspective develops a set of metrics that can be used to evaluate LANs for end applications and investigates methodologies for evaluating LANs from these perspectives The book discusses LAN evaluation techniques utilizing analysis operational analysis hardware testbeds and simulations Simulations will be stressed in greater detail and a tool available for evaluating LANs performance called MALAN is presented and the details of its structure developed **Simulation of Local Area Networks** Suhas Ballurkar,1983 **CRC Handbook of Local Area Network Software** Paul J. Fortier,Robert L. Libbey,1991-01-03 Local Area Networks LANs play a larger role in our lives today than ever before For example LANs provide us with the capability to realize automated banking services with instant credit checking and numerous other diverse access and manipulation services Users and developers of LAN products must understand the architecture of the hardware and software mechanisms to effectively design and use such systems Most gains in LAN productivity will come from future software developments in systems management and applications This book provides an introduction to the technology associated with Local Area Networks emphasizing software aspects which have been secondary considerations to hardware in most existing texts The book also provides a review of the technology needed to realize full service software products such as computer aided design and manufacturing systems large publication systems and integrated data service networks and includes an exhaustive review of the products available today *Publications* United States. National Bureau of Standards,1986 **Simulation of Local Area Networks Through Questionnaire** Shuw-Shenn Luh,1985 Local Area Networks S. V. Raghavan,1990 Local Area Network LAN technology has progressed from a relatively simple moderate speed coaxial bus topology to sophisticated high speed fiber optic based networks This book presents research relating to a range of topics survey papers and reports on projects in progress LAN technology architecture distributed systems OSI and performance are among the subjects covered **Local Computer Networks, 18th Conference On** IEEE Computer Society Press,1993 The proceedings of LCN DEGREES93 held in Minneapolis Minnesota in September 1993 comprise papers on topics in multimedia ATM SMDS multimedia networking DQDB MANs FDDI realtime FDDI network design fiber channel high speed networks multimedia applications network applications ATM cong Application of Simulation to Local Area Networks Eve Kotovich,1994 Local Area Network (LAN) Simulation and Analysis Jaime E. Salazar,1997 Local Area Network LAN technology and the processing power of many of the components that make up the network are continuously changing This includes the

transmission medium workstations network elements hubs switches bridges routers etc application software and protocols
Usually network growth evolution and maintenance are performed in an ad hoc manner adding a workstation here and there
and hoping there is no network degradation or hoping that changes being made to the network will fix whatever ails it
Having a good understanding of how the network currently functions and establishing guidelines for adding components to
the network should prevent network degradation As is the case with many designs and products predicting the behavior of a
system architecture before it is deployed is desirable because it reduces the probability of problems seen by the customer
This philosophy applies to LAN architectures too Modeling and simulation of a network architecture before it is deployed or
changed can save an organization time and money Modeling and simulation will provide an understanding of network
functionality and allows for establishing guidelines for when how and where changes to a network should be applied Author s
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