

Introduction to Network Simulator NS2

By Teerawat Issariyakul, Ekram Hossain

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Introduction to Network Simulator NS2 is a primer providing materials for NS2 beginners, whether students, professors, or researchers for understanding the architecture of Network Simulator 2 (NS2) and for incorporating simulation modules into NS2. The authors discuss the simulation architecture and the key components of NS2 including simulation-related objects, network objects, packet-related objects, and helper objects. The NS2 modules included within are nodes, links, SimpleLink objects, packets, agents, and applications. Further, the book covers three helper modules: timers, random number generators, and error models. Also included are chapters on summary of debugging, variable and packet tracing, result compilation, and examples for extending NS2. Two appendices provide the details of scripting language Tcl, OTcl and AWK, as well object oriented programming used extensively in NS2.

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Editorial Review

Review

From the reviews of the second edition:

“This book on ns-2 can be used as a reference by researchers, as well as by undergraduate and postgraduate students. It will be useful for courses related to computer networks. … It has added exercises at the end of the chapters that are meant to be used for assignments, lab exercises, and exam questions. … I recommend this book for all those who are using ns-2 or plan to use it in the future. It will serve as a useful reference.” (S. V. Nagaraj, ACM Computing Reviews, January, 2013)

“The book is designed to be a primer for the network simulator NS2. … This textbook is written for researchers who need to use NS2 for simulation-based communication network performance evaluation. It can also be used as a reference for laboratory work for a senior undergraduate or graduate course on telecommunication networks.” (IEEE Control Systems Magazine, June, 2012)

From the Back Cover

Spurred by a dearth of information on NS2 during their graduate studies, the authors have written this primer on the open-source simulation software to help subsequent generations of students grapple with the program and its uses. NS2, an event-driven simulation program designed specifically for researching computer networks, was conceived in 1989 and has been enhanced ever since. It now includes modules for network functions such as routing, transport layer protocol and applications. Yet basic NS2 tutorials do not cover the skills researchers must master to build additional modules adapted to their research needs.

With most event-driven network simulation tasks now requiring extra configuration, this publication is a welcome learning aid for anyone who needs to go beyond the basics. It provides all the information required to install NS2, run simple examples, modify existing NS2 modules, and to create as well as incorporate new modules into the software. To help researchers grasp the fundamentals, the authors provide comprehensive explanations of several built-in NS2 modules. The book is a boon to those using this powerful investigative tool.

Users Review

From reader reviews:

Daniel Soderquist:

People live in this new day of lifestyle always try and and must have the spare time or they will get great deal of stress from both everyday life and work. So , if we ask do people have extra time, we will say absolutely of course. People is human not only a robot. Then we question again, what kind of activity have you got when the spare time coming to you actually of course your answer will unlimited right. Then ever try this one, reading guides. It can be your alternative throughout spending your spare time, often the book you have read is Introduction to Network Simulator NS2.

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