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Digital System Verification

*A Combined Formal Methods
and Simulation Framework*

Lan Li

Mitchell A. Thornton

**SYNTHESIS LECTURES ON
DIGITAL CIRCUITS AND SYSTEMS**

Mitchell A. Thornton, Book Editor

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Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton

Steven Barrett, Jason Kridner



Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton:

Digital System Verification Lun Li, Mitchell Aaron Thornton, 2010 Integrated circuit capacity follows Moore's law and chips are commonly produced at the time of this writing with over 70 million gates per device. Ensuring correct functional behavior of such large designs before fabrication poses an extremely challenging problem. Formal verification validates the correctness of the implementation of a design with respect to its specification through mathematical proof techniques. Formal techniques have been emerging as commercialized EDA tools in the past decade. Simulation remains a predominantly used tool to validate a design in industry. After more than 50 years of development, simulation methods have reached a degree of maturity; however, new advances continue to be developed in the area. A simulation approach for functional verification can theoretically validate all possible behaviors of a design but requires excessive computational resources. Rapidly evolving markets demand short design cycles while the increasing complexity of a design causes simulation approaches to provide less and less coverage. Formal verification is an attractive alternative since 100% coverage can be achieved; however, large designs impose unrealistic computational requirements. Combining formal verification and simulation into a single integrated circuit validation framework is an attractive alternative. This book focuses on an Integrated Design Validation (IDV) system that provides a framework for design validation and takes advantage of current technology in the areas of simulation and formal verification, resulting in a practical validation engine with reasonable runtime. After surveying the basic principles of formal verification and simulation, this book describes the IDV approach to integrated circuit functional validation.

Digital System Verification Lun Li, Mitchell Thornton, 2022-06-01 Integrated circuit capacity follows Moore's law and chips are commonly produced at the time of this writing with over 70 million gates per device. Ensuring correct functional behavior of such large designs before fabrication poses an extremely challenging problem. Formal verification validates the correctness of the implementation of a design with respect to its specification through mathematical proof techniques. Formal techniques have been emerging as commercialized EDA tools in the past decade. Simulation remains a predominantly used tool to validate a design in industry. After more than 50 years of development, simulation methods have reached a degree of maturity; however, new advances continue to be developed in the area. A simulation approach for functional verification can theoretically validate all possible behaviors of a design but requires excessive computational resources. Rapidly evolving markets demand short design cycles while the increasing complexity of a design causes simulation approaches to provide less and less coverage. Formal verification is an attractive alternative since 100% coverage can be achieved; however, large designs impose unrealistic computational requirements. Combining formal verification and simulation into a single integrated circuit validation framework is an attractive alternative. This book focuses on an Integrated Design Validation (IDV) system that provides a framework for design validation and takes advantage of current technology in the areas of simulation and formal verification, resulting in a practical validation engine with reasonable runtime. After surveying the basic principles of formal

verification and simulation this book describes the IDV approach to integrated circuit functional validation Table of Contents Introduction Formal Methods Background Simulation Approaches Integrated Design Validation System Conclusion and Summary **Atmel AVR Microcontroller Primer** Steven Barrett,Daniel Pack,2022-11-10 This textbook provides practicing scientists and engineers a primer on the Atmel AVR microcontroller In this second edition we highlight the popular ATmega164 microcontroller and other pin for pin controllers in the family with a complement of flash memory up to 128 kbytes The second edition also adds a chapter on embedded system design fundamentals and provides extended examples on two different autonomous robots Our approach is to provide the fundamental skills to quickly get up and operating with this internationally popular microcontroller We cover the main subsystems aboard the ATmega164 providing a short theory section followed by a description of the related microcontroller subsystem with accompanying hardware and software to exercise the subsystem In all examples we use the C programming language We include a detailed chapter describing how to interface the microcontroller to a wide variety of input and output devices and conclude with several system level examples Table of Contents Atmel AVR Architecture Overview Serial Communication Subsystem Analog to Digital Conversion Interrupt Subsystem Timing Subsystem Atmel AVR Operating Parameters and Interfacing Embedded Systems Design

Representations of Multiple-Valued Logic Functions Radomir S. Stankovic,Jaakko Astola,Claudio Moraga,2022-06-01 Compared to binary switching functions the multiple valued functions MV offer more compact representations of the information content of signals modeled by logic functions and therefore their use fits very well in the general settings of data compression attempts and approaches The first task in dealing with such signals is to provide mathematical methods for their representation in a way that will make their application in practice feasible Representation of Multiple Valued Logic Functions is aimed at providing an accessible introduction to these mathematical techniques that are necessary for application of related implementation methods and tools This book presents in a uniform way different representations of multiple valued logic functions including functional expressions spectral representations on finite Abelian groups and their graphical counterparts various related decision diagrams Three valued or ternary functions are traditionally used as the first extension from the binary case They have a good feature that the ratio between the number of bits and the number of different values that can be encoded with the specified number of bits is favourable for ternary functions Four valued functions also called quaternary functions are particularly attractive since in practical realization within today prevalent binary circuits environment they may be easy coded by binary values and realized with two stable state circuits At the same time there is much more considerable advent in design of four valued logic circuits than for other p valued functions Therefore this book is written using a hands on approach such that after introducing the general and necessarily abstract background theory the presentation is based on a large number of examples for ternary and quaternary functions that should provide an intuitive understanding of various representation methods and the interconnections among them Table of

Contents Multiple Valued Logic Functions Functional Expressions for Multiple Valued Functions Spectral Representations of Multiple Valued Functions Decision Diagrams for Multiple Valued Functions Fast Calculation Algorithms **Fundamentals of Electronics** Thomas F. Schubert, Ernest M. Kim, 2022-06-01 This book Oscillators and Advanced Electronics Topics is the final book of a larger four book set Fundamentals of Electronics It consists of five chapters that further develop practical electronic applications based on the fundamental principles developed in the first three books This book begins by extending the principles of electronic feedback circuits to linear oscillator circuits The second chapter explores non linear oscillation waveform generation and waveshaping The third chapter focuses on providing clean reliable power for electronic applications where voltage regulation and transient suppression are the focus Fundamentals of communication circuitry form the basis for the fourth chapter with voltage controlled oscillators mixers and phase lock loops being the primary focus The final chapter expands upon early discussions of logic gate operation introduced in Book 1 to explore gate speed and advanced gate topologies Fundamentals of Electronics has been designed primarily for use in upper division courses in electronics for electrical engineering students and for working professionals Typically such courses span a full academic year plus an additional semester or quarter As such Oscillators and Advanced Electronics Topics and the three companion book of Fundamentals of Electronics form an appropriate body of material for such courses *Pragmatic Electrical Engineering* William Eccles, 2022-05-31 Pragmatic Electrical Engineering Systems and Instruments is about some of the non energy parts of electrical systems the parts that control things and measure physical parameters The primary topics are control systems and their characterization instrumentation signals and electromagnetic compatibility This text features a large number of completely worked examples to aid the reader in understanding how the various principles fit together While electric engineers may find this material useful as a review engineers in other fields can use this short lecture text as a modest introduction to these non energy parts of electrical systems Some knowledge of basic d c circuits and of phasors in the sinusoidal steady state is presumed Table of Contents Closed Loop Control Systems Characterizing a System Instrumentation Processing Signals Electromagnetic Compatibility Arduino II Steven F. Barrett, 2022-06-01 This book is about the Arduino microcontroller and the Arduino concept The visionary Arduino team of Massimo Banzi David Cuartielles Tom Igoe Gianluca Martino and David Mellis launched a new innovation in microcontroller hardware in 2005 the concept of open source hardware Their approach was to openly share details of microcontroller based hardware design platforms to stimulate the sharing of ideas and promote innovation This concept has been popular in the software world for many years In June 2019 Joel Claypool and I met to plan the fourth edition of Arduino Microcontroller Processing for Everyone Our goal has been to provide an accessible book on the rapidly evolving world of Arduino for a wide variety of audiences including students of the fine arts middle and senior high school students engineering design students and practicing scientists and engineers To make the book even more accessible to better serve our readers we decided to change our approach and provide a series of

smaller volumes Each volume is written to a specific audience This book Arduino II Systems is a detailed treatment of the ATmega328 processor and an introduction to C programming and microcontroller based systems design Arduino I Getting Started provides an introduction to the Arduino concept Arduino III the Internet of Things explores Arduino applications in the Internet of Things IoT Programming the ARM® Cortex®-M4-based STM32F4 Microcontrollers with Simulink® Farzin Asadi,Sawai Pongswatd,2022-05-31 A microcontroller is a compact integrated circuit designed to govern a specific operation in an embedded system A typical microcontroller includes a processor memory and input output I O peripherals on a single chip When they first became available microcontrollers solely used Assembly language Today the C programming language and some other high level languages can be used as well Some of advanced microcontrollers support another programming technique as well Graphical programming In graphical programming the user does not write any code but draws the block diagram of the system he wants Then a software converts the drawn block diagram into a suitable code for the target device Programming microcontrollers using graphical programming is quite easier than programming in C or Assembly You can implement a complex system within hours with graphical programming while its implementation in C may take months These features make the graphical programming an important option for engineers This book study the graphical programming of STM32F4 high performance microcontrollers with the aid of Simulink textregistered and Waijung blockset Students of engineering for instance electrical biomedical mechatronics and robotic to name a few engineers who work in industry and anyone who want to learn the graphical programming of STM32F4 can benefit from this book Prerequisite for this book is the basic knowledge of MATLABi textregistered Simulink textregistered **Arduino Microcontroller Processing for Everyone!** Steven Barrett,2022-11-10 This book is about the Arduino microcontroller and the Arduino concept The visionary Arduino team of Massimo Banzi David Cuartielles Tom Igoe Gianluca Martino and David Mellis launched a new innovation in microcontroller hardware in 2005 the concept of open source hardware Their approach was to openly share details of microcontroller based hardware design platforms to stimulate the sharing of ideas and promote innovation This concept has been popular in the software world for many years This book is intended for a wide variety of audiences including students of the fine arts middle and senior high school students engineering design students and practicing scientists and engineers To meet this wide audience the book has been divided into sections to satisfy the need of each reader The book contains many software and hardware examples to assist the reader in developing a wide variety of systems For the examples the Arduino UNO R3 and the Atmel ATmega328 is employed as the target processor The second edition has been updated with the latest on the Arduino UNO R3 processor changes to the Arduino Development Environment and several extended examples Table of Contents Getting Started Programming Embedded Systems Design Serial Communication Subsystem Analog to Digital Conversion ADC Interrupt Subsystem Timing Subsystem Atmel AVR Operating Parameters and Interfacing **Bad to the Bone** Steven Barrett,Jason Kridner,2022-06-01 BeagleBone Black is a

low cost open hardware computer uniquely suited to interact with sensors and actuators directly and over the Web Introduced in April 2013 by BeagleBoard.org a community of developers first established in early 2008 BeagleBone Black is used frequently to build vision enabled robots home automation systems artistic lighting systems and countless other do it yourself and professional projects BeagleBone variants include the original BeagleBone and the newer BeagleBone Black both hosting a powerful 32 bit super scalar ARM Cortex A8 processor capable of running numerous mobile and desktop capable operating systems typically variants of Linux including Debian Android and Ubuntu Yet BeagleBone is small enough to fit in a small mint tin box The Bone may be used in a wide variety of projects from middle school science fair projects to senior design projects to first prototypes of very complex systems Novice users may access the power of the Bone through the user friendly BoneScript software experienced through a Web browser in most major operating systems including Microsoft Windows Apple Mac OS X or the Linux operating systems Seasoned users may take full advantage of the Bone's power using the underlying Linux based operating system a host of feature extension boards Capes and a wide variety of Linux community open source libraries This book provides an introduction to this powerful computer and has been designed for a wide variety of users including the first time novice through the seasoned embedded system design professional The book contains background theory on system operation coupled with many well documented illustrative examples Examples for novice users are centered on motivational fun robot projects while advanced projects follow the theme of assistive technology and image processing applications

Arduino III Steven F. Barrett, 2022-05-31 This book is about the Arduino microcontroller and the Arduino concept The visionary Arduino team of Massimo Banzi David Cuartielles Tom Igoe Gianluca Martino and David Mellis launched a new innovation in microcontroller hardware in 2005 the concept of open source hardware Their approach was to openly share details of microcontroller based hardware design platforms to stimulate the sharing of ideas and promote innovation This concept has been popular in the software world for many years In June 2019 Joel Claypool and I met to plan the fourth edition of Arduino Microcontroller Processing for Everyone Our goal has been to provide an accessible book on the rapidly evolving world of Arduino for a wide variety of audiences including students of the fine arts middle and senior high school students engineering design students and practicing scientists and engineers To make the book even more accessible to better serve our readers we decided to change our approach and provide a series of smaller volumes Each volume is written to a specific audience This book Arduino III Internet of Things explores Arduino applications in the fascinating and rapidly evolving world of the Internet of Things Arduino I Getting Started provides an introduction to the Arduino concept Arduino II Systems is a detailed treatment of the ATmega328 processor and an introduction to C programming and microcontroller based systems design

Fundamentals of Electronics Book 1: (Electronic Devices and Circuit Applications) Thomas Schubert, Ernest Kim, 2017-02-10 This book Electronic Devices and Circuit Applications is the first of four books of a larger work Fundamentals of Electronics It is comprised of four chapters describing the basic

operation of each of the four fundamental building blocks of modern electronics operational amplifiers semiconductor diodes bipolar junction transistors and field effect transistors Attention is focused on the reader obtaining a clear understanding of each of the devices when it is operated in equilibrium Ideas fundamental to the study of electronic circuits are also developed in the book at a basic level to lessen the possibility of misunderstandings at a higher level The difference between linear and non linear operation is explored through the use of a variety of circuit examples including amplifiers constructed with operational amplifiers as the fundamental component and elementary digital logic gates constructed with various transistor types

Index Generation Functions Tsutomu Sasao, 2022-05-31 Index generation functions are binary input integer valued functions They represent functions of content addressable memories CAMs Applications include IP address tables terminal controllers URL lists computer virus scanning circuits memory patch circuits list of English words code converters and pattern matching circuits This book shows memory based realization of index generation functions It shows 1 methods to implement index generation functions by look up table LUT cascades and index generation units IGU 2 methods to reduce the number of variables using linear transformations and 3 methods to estimate the sizes of memories with many illustrations tables examples exercises and their solutions

Fundamentals of Electronics Book 3: (Active Filters and Amplifier Frequency Response) Thomas Schubert, Ernest Kim, 2017-02-15 This book Active Filters and Amplifier Frequency Response is the third of four books of a larger work Fundamentals of Electronics It is comprised of three chapters that describe the frequency dependent response of electronic circuits This book begins with an extensive tutorial on creating and using Bode Diagrams that leads to the modeling and design of active filters using operational amplifiers The second chapter starts by focusing on bypass and coupling capacitors and after introducing high frequency modeling of bipolar and field effect transistors extensively develops the high and low frequency response of a variety of common electronic amplifiers The final chapter expands the frequency dependent discussion to feedback amplifiers the possibility of instabilities and remedies for good amplifier design

Circuit Analysis with Multisim David Baez-Lopez, Felix Guerrero-Castro, 2022-05-31 This book is concerned with circuit simulation using National Instruments Multisim It focuses on the use and comprehension of the working techniques for electrical and electronic circuit simulation The first chapters are devoted to basic circuit analysis It starts by describing in detail how to perform a DC analysis using only resistors and independent and controlled sources Then it introduces capacitors and inductors to make a transient analysis In the case of transient analysis it is possible to have an initial condition either in the capacitor voltage or in the inductor current or both Fourier analysis is discussed in the context of transient analysis Next we make a treatment of AC analysis to simulate the frequency response of a circuit Then we introduce diodes transistors and circuits composed by them and perform DC transient and AC analyses The book ends with simulation of digital circuits A practical approach is followed through the chapters using step by step examples to introduce new Multisim circuit elements tools analyses and virtual instruments for measurement The examples are clearly commented

and illustrated The different tools available on Multisim are used when appropriate so readers learn which analyses are available to them This is part of the learning outcomes that should result after each set of end of chapter exercises is worked out

Table of Contents Introduction to Circuit Simulation Resistive Circuits Time Domain Analysis Transient Analysis Frequency Domain Analysis AC Analysis Semiconductor Devices Digital Circuits **Arduino I** Steven F. Barrett, 2022-05-31

This book is about the Arduino microcontroller and the Arduino concept The visionary Arduino team of Massimo Banzi David Cuartielles Tom Igoe Gianluca Martino and David Mellis launched a new innovation in microcontroller hardware in 2005 the concept of open source hardware Their approach was to openly share details of microcontroller based hardware design platforms to stimulate the sharing of ideas and promote innovation This concept has been popular in the software world for many years In June 2019 Joel Claypool and I met to plan the fourth edition of Arduino Microcontroller Processing for Everyone Our goal has been to provide an accessible book on the rapidly changing world of Arduino for a wide variety of audiences including students of the fine arts middle and senior high school students engineering design students and practicing scientists and engineers To make the book more accessible to better serve our readers we decided to change our approach and provide a series of smaller volumes Each volume is written to a specific audience This book Arduino I Getting Started is written for those looking for a quick tutorial on the Arduino environment platforms interface techniques and applications Arduino II will explore advanced techniques applications and systems design Arduino III will explore Arduino applications in the Internet of Things IoT Arduino I Getting Started covers three different Arduino products the Arduino UNO R3 equipped with the Microchip ATmega328 the Arduino Mega 2560 equipped with the Microchip ATmega2560 and the wearable Arduino LilyPad **Applications of Zero-Suppressed Decision Diagrams** Jon T. Butler, Tsutomu Sasao, 2022-05-31

A zero suppressed decision diagram ZDD is a data structure to represent objects that typically contain many zeros Applications include combinatorial problems such as graphs circuits faults and data mining This book consists of four chapters on the applications of ZDDs The first chapter by Alan Mishchenko introduces the ZDD It compares ZDDs to BDDs showing why a more compact representation is usually achieved in a ZDD The focus is on sets of subsets and on sum of products SOP expressions Methods to generate all the prime implicants PIs and to generate irredundant SOPs are shown A list of papers on the applications of ZDDs is also presented In the appendix ZDD procedures in the CUDD package are described The second chapter by Tsutomu Sasao shows methods to generate PIs and irredundant SOPs using a divide and conquer method This chapter helps the reader to understand the methods presented in the first chapter The third chapter by Shin Ichi Minato introduces the frontier based method that efficiently enumerates certain subsets of a graph The final chapter by Shinobu Nagayama shows a method to match strings of characters This is important in routers for example where one must match the address information of an internet packet to the proper output port It shows that ZDDs are more compact than BDDs in solving this important problem Each chapter contains exercises and the appendix contains their

solutions Table of Contents Preface Acknowledgments Introduction to Zero Suppressed Decision Diagrams Efficient Generation of Prime Implicants and Irredundant Sum of Products Expressions The Power of Enumeration BDD ZDD Based Algorithms for Tackling Combinatorial Explosion Regular Expression Matching Using Zero Suppressed Decision Diagrams Authors and Editors Biographies Index *Microchip AVR® Microcontroller Primer* Steven F. Barrett, Daniel J.

Pack, 2019-09-19 This textbook provides practicing scientists and engineers a primer on the Microchip AVR microcontroller. The revised title of this book reflects the 2016 Microchip Technology acquisition of Atmel Corporation. In this third edition we highlight the popular ATmega164 microcontroller and other pin for pin controllers in the family with a complement of flash memory up to 128 KB. The third edition also provides an update on Atmel Studio programming with a USB pod, the gcc compiler, the ImageCraft JumpStart C for AVR compiler, the Two Wire Interface TWI and multiple examples at both the subsystem and system level. Our approach is to provide readers with the fundamental skills to quickly set up and operate with this internationally popular microcontroller. We cover the main subsystems aboard the ATmega164 providing a short theory section followed by a description of the related microcontroller subsystem with accompanying hardware and software to operate the subsystem. In all examples we use the C programming language. We include a detailed chapter describing how to interface the microcontroller to a wide variety of input and output devices and conclude with several system level examples including a special effects light emitting diode cube, autonomous robots, a multi function weather station and a motor speed control system. **Microcontroller Programming and Interfacing with Texas Instruments MSP430FR2433 and MSP430FR5994 - Part I**

Steven F. Barrett, Daniel J. Pack, 2019-08-27 This book provides a thorough introduction to the Texas Instruments MSP430™ microcontroller. The MSP430 is a 16 bit reduced instruction set RISC processor that features ultra low power consumption and integrated digital and analog hardware. Variants of the MSP430 microcontroller have been in production since 1993. This provides for a host of MSP430 products including evaluation boards, compilers, software examples and documentation. A thorough introduction to the MSP430 line of microcontrollers, programming techniques and interface concepts are provided along with considerable tutorial information with many illustrated examples. Each chapter provides laboratory exercises to apply what has been presented in the chapter. The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects. Also practicing engineers already familiar with another microcontroller who require a quick tutorial on the microcontroller will find this book very useful. This second edition introduces the MSP430FR5994 and the MSP430FR2433 LaunchPads. Both LaunchPads are equipped with a variety of peripherals and Ferroelectric Random Access Memory (FRAM). FRAM is a nonvolatile low power memory with functionality similar to flash memory. *Microcontroller Programming and Interfacing with Texas Instruments MSP430FR2433 and MSP430FR5994* Steven F. Barrett, Daniel J. Pack, 2022-06-01 This book provides a thorough introduction to the Texas Instruments MSP430™ microcontroller. The MSP430 is a 16 bit reduced

instruction set RISC processor that features ultra low power consumption and integrated digital and analog hardware Variants of the MSP430 microcontroller have been in production since 1993 This provides for a host of MSP430 products including evaluation boards compilers software examples and documentation A thorough introduction to the MSP430 line of microcontrollers programming techniques and interface concepts are provided along with considerable tutorial information with many illustrated examples Each chapter provides laboratory exercises to apply what has been presented in the chapter The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects Also practicing engineers already familiar with another microcontroller who require a quick tutorial on the microcontroller will find this book very useful This second edition introduces the MSP EXP430FR5994 and the MSP430 EXP430FR2433 LaunchPads Both LaunchPads are equipped with a variety of peripherals and Ferroelectric Random Access Memory FRAM FRAM is a nonvolatile low power memory with functionality similar to flash memory

The book delves into Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton. Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 1: Introduction to Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton
 - Chapter 2: Essential Elements of Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton
 - Chapter 3: Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton in Everyday Life
 - Chapter 4: Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton in Specific Contexts
 - Chapter 5: Conclusion
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5. In chapter 4, this book will scrutinize the relevance of Digital System Verification A Combined Formal Methods And

Simulation Framework Mitchell Thornton in specific contexts. This chapter will explore how Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Digital System Verification A Combined Formal Methods And Simulation Framework Mitchell Thornton.

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Introduction

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