

# FPGA INTERVIEW QUESTIONS

**What is FPGA ?**

A field-programmable gate array is a semiconductor device containing programmable logic components called "logic blocks", and programmable interconnects. Logic blocks can be programmed to perform the function of basic logic gates such as AND, and XOR, or more complex combinational functions such as decoders or mathematical functions. In most FPGAs, the logic blocks also include memory elements, which may be simple flip-flops or more complete blocks of memory. A hierarchy of programmable interconnects allows logic blocks to be interconnected as needed by the system designer, somewhat like a one-chip programmable breadboard. Logic blocks and interconnects can be programmed by the customer or designer, after the FPGA is manufactured, to implement any logical function—hence the name "field-programmable". FPGAs are usually slower than their application-specific integrated circuit (ASIC) counterparts, cannot handle as complex a design, and draw more power (for any given semiconductor process). But their advantages include a shorter time to market, ability to re-program in the field to fix bugs, and lower non-recurring engineering costs. Vendors can sell cheaper, less flexible versions of their FPGAs which cannot be modified after the design is committed. The designs are developed on regular FPGAs and then migrated into a fixed version that more resembles an ASIC.

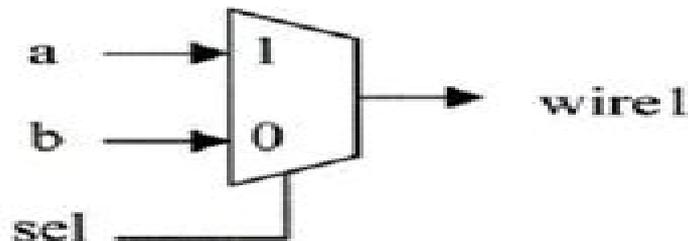
**What logic is inferred when there are multiple assign statements targeting the same wire?**

It is illegal to specify multiple assign statements to the same wire in a synthesizable code that will become an output port of the module. The synthesis tools give a syntax error that a net is being driven by more than one source. However, it is legal to drive a three-state wire by multiple assign statements.

**What do conditional assignments get inferred into?**

Conditionals in a continuous assignment are specified through the "?" operator. Conditionals get inferred into a multiplexor. For example, the following is the code for a simple multiplexor

```
assign wire1 = (sel==1'b1) ? a : b;
```



**What value is inferred when multiple procedural assignments made to the same reg variable in an always block?**

# Fpga Interview Questions Asic

**Christian G. Meyer**



## **Fpga Interview Questions Asic:**

**Findex** ,1998      **Cloud Connectivity and Embedded Sensory Systems** Lambert Spaanenburg,Hendrik Spaanenburg,2010-11-10 Sensor networks are meant to create awareness in space and time They may be measuring the presence of an object or a condition characterizing an object stream or a situational pattern or even detect abnormalities that are to occur This book provides new theory on the design of wireless sensor networks based on concepts developed for large scale distributed computing environments known as cloud computing It provides a single source entry into the world of intelligent sensory networks with a step by step discussion of building case studies that capture the requirements taking into account practical limitations of creating ambient intelligence The reader will not only achieve a better understanding of sensory clouds swarms and flocks but is also guided by examples of how to design such networks taking the typical characteristics of diverse application areas into account      **Computerworld** ,1998-05-04 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network      **Dataquest** ,1997-07      **EDN** ,2009      **Proceedings** ,1997 **Business Periodicals Index** ,2000      **Gateway to VLSI** Bharat Agarwal, Kshitij Goel,2019-10-04 If you can spare half an hour then we can guarantee success at your next VLSI Very Large Scale Integration FPGA Field Programmable Gate Array STA Static Timing analysis interview Do you want to secure at least 3 to 4 job offers by succeeding at all the phone and on site job interviews for the FPGA DESIGN ENGINEER position Or do you simply want answers for the most frequently asked interview questions in VLSI FPGA digital circuit design Did you know that people who target question answer type preparation for a job interview are 3 4 times more likely to get a job offer than those who don t Did you also know that there is a set of questions that is likely to be repeatedly asked by interviewers across the industry no matter who you talk with in the VLSI FPGA digital design After a total of 17 unsuccessful interviews we thought of writing a book to help upcoming undergrads and experience professionals to get selected in such interviews The book covers every dimension related to FPGA Verilog STA and Protocols In simple words don t search anything on the internet this book is the Google of FPGA and Verilog      **Gateway to VLSI: Want to be an FPGA Engineer?** Bharat Agarwal,Kshitij Goel,2019-09-23 If you can spare half an hour then we can guarantee success at your next VLSI Very Large Scale Integration FPGA Field Programmable Gate Array STA Static Timing analysis interview Do you want to secure at least 3 to 4 job offers by succeeding at all the phone and on site job interviews for the FPGA DESIGN ENGINEER position Or do you simply want answers for the most frequently asked interview questions in VLSI FPGA digital circuit design Did you know that people who target question answer type preparation for a job interview are 3 4 times more likely to get a job offer than those who don t Did you also know that there is a set of questions that is likely to be repeatedly asked by interviewers across the industry no matter who you talk with in the VLSI FPGA digital

design After a total of 17 unsuccessful interviews we thought of writing a book to help upcoming undergrads and experience professionals to get selected in such interviews The book covers every dimension related to FPGA Verilog STA and Protocols In simple words don't search anything on the internet this book is the Google of FPGA and Verilog

**Quantifying and Exploring the Gap Between FPGAs and ASICs** Ian Kuon, Jonathan Rose, 2010-07-03 Field programmable gate arrays FPGAs which are pre fabricated programmable digital integrated circuits ICs provide easy access to state of the art integrated circuit process technology and in doing so democratize this technology of our time This book is about comparing the qualities of FPGA their speed performance area and power consumption against custom fabricated ICs and exploring ways of mitigating their deficiencies This work began as a question that many have asked and few had the resources to answer how much worse is an FPGA compared to a custom designed chip As we dealt with that question we found that it was far more difficult to answer than we anticipated but that the results were rich basic insights on fundamental understandings of FPGA architecture It also encouraged us to find ways to leverage those insights to seek ways to make FPGA technology better which is what the second half of the book is about While the question How much worse is an FPGA than an ASIC has been a constant sub theme of all research on FPGAs it was posed most directly some time around May 2004 by Professor Abbas El Gamal from Stanford University to us he was working on a 3D FPGA and was wondering if any real measurements had been made in this kind of comparison Shortly thereafter we took it up and tried to answer in a serious way

ASIC and FPGA Verification Richard Munden, 2004-10-23 Richard Munden demonstrates how to create and use simulation models for verifying ASIC and FPGA designs and board level designs that use off the shelf digital components Based on the VHDL VITAL standard these models include timing constraints and propagation delays that are required for accurate verification of today's digital designs

ASIC and FPGA Verification A Guide to Component Modeling expertly illustrates how ASICs and FPGAs can be verified in the larger context of a board or a system It is a valuable resource for any designer who simulates multi chip digital designs Provides numerous models and a clearly defined methodology for performing board level simulation Covers the details of modeling for verification of both logic and timing First book to collect and teach techniques for using VHDL to model off the shelf or IP digital components for use in FPGA and board level design verification

**Tree-based Heterogeneous FPGA Architectures** Umer Farooq, Zied Marrakchi, Habib Mehrez, 2012-05-17 This book presents a new FPGA architecture known as tree based FPGA architecture due to its hierarchical nature This type of architecture has been relatively unexplored despite their better performance and predictable routing behavior as compared to mesh based FPGA architectures In this book we explore and optimize the tree based architecture and we evaluate it by comparing it to equivalent mesh based FPGA architectures

**ASIC Design and Synthesis** Vaibhav Taraate, 2021-01-06 This book describes simple to complex ASIC design practical scenarios using Verilog It builds a story from the basic fundamentals of ASIC designs to advanced RTL design concepts using Verilog Looking at current trends of miniaturization the contents

provide practical information on the issues in ASIC design and synthesis using Synopsys DC and their solution The book explains how to write efficient RTL using Verilog and how to improve design performance It also covers architecture design strategies multiple clock domain designs low power design techniques DFT pre layout STA and the overall ASIC design flow with case studies The contents of this book will be useful to practicing hardware engineers students and hobbyists looking to learn about ASIC design and synthesis

FPGA -Based Systems Design and Practice Ming-Bo Lin,2018-07-30 With the advance of semiconductor and communication industry the use of system on chip SoC has become an essential technique to reduce product costs The development of a good understanding of the key stages of the hardware description language HDL design flow based on cell based libraries or field programmable gate array FPGA devices becomes essential This book addresses the needs for such a topic based on Verilog HDL and FPGAs The most important features of this book include HDL based design has become an essential technique for modern digital systems This book focuses on developing verifying and synthesizing designs of practical digital systems using the most widely used hardware description Language Verilog HDL and FPGAs The main features of this book include Explaining how to perform synthesis and verification to achieve optimized synthesis results and compiler times Illustrating the entire design and verification flow using an FPGA case study Emphasizing design implementation trade off options with coverage of ASICs and FPGAs Providing plentiful worked examples and review questions in each section for readers to test their understanding of the related topics Giving readers deeper understanding with plentiful review questions in each section and end of chapter problems Incorporating many case studies to help the reader grasp the essentials of practical digital systems to be designed using Verilog HDL and FPGAs Highlighting Verilog HDL syntax throughout the book to facilitate readers to refer the desired syntax as they need Printing all keywords in boldface throughout the book to emphasize the language structures and improve the readability of Verilog HDL modules This book is the ideal textbook for the following courses Digital System Design FPGA System Designs and Practices Advanced Digital Systems Design and the like In addition it can be used as a self studying or professional reference book in this field

From ASICs to SOCs Farzad Nekoogar,Faranak Nekoogar,2003 From ASICs to SOCs A Practical Approach by Farzad Nekoogar and Faranak Nekoogar covers the techniques principles and everyday realities of designing ASICs and SOCs Material includes current issues in the field front end and back end designs integration of IPs on SOC designs and low power design techniques and methodologies Appropriate for practicing chip designers as well as graduate students in electrical engineering

HDL Based ASIC and FPGA Design Methodology Using Synopsys and Xilinx Iqbalur R. Rokan,1997

**Real World FPGA Design with Verilog** Ken Coffman,1999-12-08 The practical guide for every circuit designer creating FPGA designs with Verilog Walk through design step by step from coding through silicon Partitioning synthesis simulation test benches combinatorial and sequential designs and more Real World FPGA Design with Verilog guides you through every key challenge associated with designing FPGAs and ASICs using Verilog one of the world s leading

hardware design languages You'll find irreverent yet rigorous coverage of what it really takes to translate HDL code into hardware and how to avoid the pitfalls that can occur along the way Ken Coffman presents no frills real world design techniques that can improve the stability and reliability of virtually any design Start by walking a typical Verilog design all the way through to silicon then review basic Verilog syntax design simulation and testing advanced simulation and more Coverage includes Essential digital design strategies recognizing the underlying analog building blocks used to create digital primitives implementing logic with LUTs clocking strategies logic minimization and more Key engineering tradeoffs including operating speed vs latency Combinatorial and sequential designs Verilog test fixtures compiler directives and automated testing A detailed comparison of alternative architectures and software including a never before published FPGA technology selection checklist Real World FPGA Design with Verilog introduces libraries and reusable modules points out opportunities to reuse your own code and helps you decide when to purchase existing IP designs instead of building from scratch Essential rules for designing with ASIC conversion in mind are presented If you're involved with digital hardware design with Verilog Ken Coffman is a welcome voice of experience showing you the shortcuts helping you over the rough spots and helping you achieve competence faster than you ever expected

[Guide to FPGA Implementation of Arithmetic Functions](#) Jean-Pierre Deschamps, Gustavo D. Sutter, Enrique Cantó, 2012-04-07 This book is designed both for FPGA users interested in developing new specific components generally for reducing execution times and IP core designers interested in extending their catalog of specific components The main focus is circuit synthesis and the discussion shows for example how a given algorithm executing some complex function can be translated to a synthesizable circuit description as well as which are the best choices the designer can make to reduce the circuit cost latency or power consumption This is not a book on algorithms It is a book that shows how to translate efficiently an algorithm to a circuit using techniques such as parallelism pipeline loop unrolling and others Numerous examples of FPGA implementation are described throughout this book and the circuits are modeled in VHDL Complete and synthesizable source files are available for download

**Performance Driven FPGA Design with an ASIC Perspective**, 2009

**ASIC/SoC Functional Design Verification** Ashok B. Mehta, 2018-08-12 This book describes in detail all required technologies and methodologies needed to create a comprehensive functional design verification strategy and environment to tackle the toughest job of guaranteeing first pass working silicon The author first outlines all of the verification sub fields at a high level with just enough depth to allow an engineer to grasp the field before delving into its detail He then describes in detail industry standard technologies such as UVM Universal Verification Methodology SVA SystemVerilog Assertions SFC SystemVerilog Functional Coverage CDV Coverage Driven Verification Low Power Verification Unified Power Format UPF AMS Analog Mixed Signal verification Virtual Platform TLM2 0 ESL Electronic System Level methodology Static Formal Verification Logic Equivalency Check LEC Hardware Acceleration Hardware Emulation Hardware Software Co verification Power Performance Area PPA analysis on a virtual platform Reuse

Methodology from Algorithm ESL to RTL and other overall methodologies

The Top Books of the Year Fpga Interview Questions Asic The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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