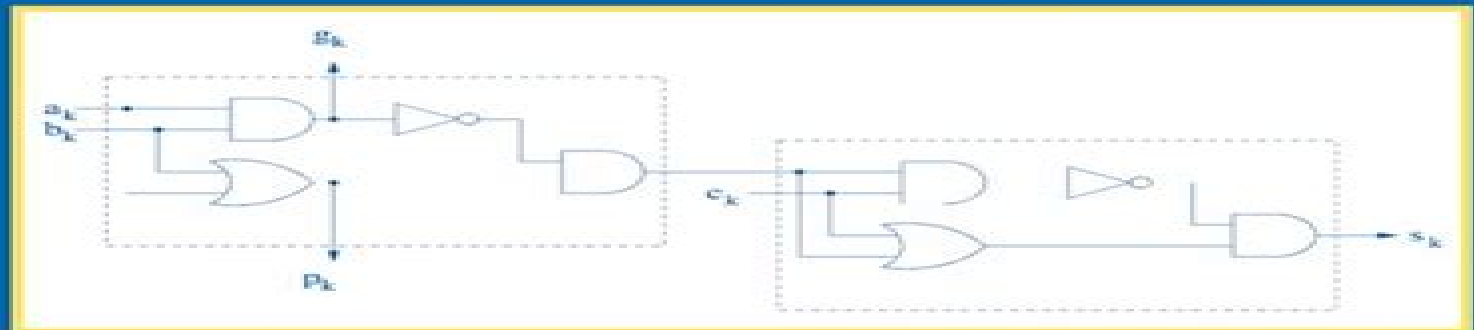


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Digital Computer Arithmetic Datapath Design Using Verilog HDL James E. Stine, 2012-12-06 The role of arithmetic in datapath design in VLSI design has been increasing in importance over the last several years due to the demand for processors that are smaller faster and dissipate less power Unfortunately this means that many of these datapaths will be complex both algorithmically and circuit wise As the complexity of the chips increases less importance will be placed on understanding how a particular arithmetic datapath design is implemented and more importance will be given to when a product will be placed on the market This is because many tools that are available today are automated to help the digital system designer maximize their efficiency Unfortunately this may lead to problems when implementing particular datapaths The design of high performance architectures is becoming more complicated because the level of integration that is capable for many of these chips is in the billions Many engineers rely heavily on software tools to optimize their work therefore as designs are getting more complex less understanding is going into a particular implementation because it can be generated automatically Although software tools are a highly valuable asset to designer the value of these tools does not diminish the importance of understanding datapath elements Therefore a digital system designer should be aware of how algorithms can be implemented for datapath elements Unfortunately due to the complexity of some of these algorithms it is sometimes difficult to understand how a particular algorithm is implemented without seeing the actual code

Computer Arithmetic and Verilog HDL Fundamentals Joseph Cavanagh, 2017-12-19 Verilog Hardware Description Language HDL is the state of the art method for designing digital and computer systems Ideally suited to describe both combinational and clocked sequential arithmetic circuits Verilog facilitates a clear relationship between the language syntax and the physical hardware It provides a very easy to learn and practical means to model a digital system at many levels of abstraction Computer Arithmetic and Verilog HDL Fundamentals details the steps needed to master computer arithmetic for fixed point decimal and floating point number representations for all primary operations Silvaco International's SILOS the Verilog simulator used in these pages is simple to understand yet powerful enough for any application It encourages users to quickly prototype and debug any logic function and enables single stepping through the Verilog source code It also presents drag and drop abilities Introducing the three main modeling methods dataflow behavioral and structural this self contained tutorial Covers the number systems of different radices such as octal decimal hexadecimal and binary coded variations Reviews logic design fundamentals including Boolean algebra and minimization techniques for switching functions Presents basic methods for fixed point addition subtraction multiplication and division including the use of decimals in all four operations Addresses floating point addition and subtraction with several numerical examples and flowcharts that graphically illustrate steps required for true addition and subtraction for floating point operands Demonstrates floating point division including the

generation of a zero biased exponent Designed for electrical and computer engineers and computer scientists this book leaves nothing unfinished carrying design examples through to completion The goal is practical proficiency To this end each chapter includes problems of varying complexity to be designed by the reader *Verilog HDL Design Examples* Joseph Cavanagh,2017-10-16 The Verilog language provides a means to model a digital system at many levels of abstraction from a logic gate to a complex digital system to a mainframe computer The purpose of this book is to present the Verilog language together with a wide variety of examples so that the reader can gain a firm foundation in the design of the digital system using Verilog HDL The Verilog projects include the design module the test bench module and the outputs obtained from the simulator that illustrate the complete functional operation of the design Where applicable a detailed review of the theory of the topic is presented together with the logic design principles including state diagrams Karnaugh maps equations and the logic diagram Numerous examples and homework problems are included throughout The examples include logical operations counters of different moduli half adders full adders a carry lookahead adder array multipliers different types of Moore and Mealy machines and arithmetic logic units ALUs **Solutions Manual Computer Arithmetic and Verilog Hdl Fundamentals** Joseph J. F. Cavanagh,2009-12-16 This text presents the design of computer arithmetic circuits for four arithmetic operations using three number representations The circuits are designed using algorithms or traditional design techniques and implemented using Verilog hardware description language HDL in the SILOS simulation environment

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