

Chap. 6 Digital Arithmetic: Operations & Circuits

■ Introduction

- ◆ This chapter will be concentrate on how computers perform the basic arithmetic operations

■ 6-1 Binary Addition

- ◆ Addition is the most important operation in digital systems

- Subtraction, multiplication and division are usually implemented using addition.
- Basic Rules :

$$0 + 0 = 0$$

$$1 + 0 = 1$$

$$1 + 1 = 10 = \text{carry of next position} + 0$$

$$1 + 1 + 1 = 11 = \text{carry of next position} + 1$$

- Binary Example :

$$\begin{array}{r} 011 \text{ (3)} \\ + 110 \text{ (6)} \\ \hline 1001 \text{ (9)} \end{array}$$

$$\begin{array}{r} 1001 \text{ (9)} \\ + 1111 \text{ (15)} \\ \hline 11000 \text{ (24)} \end{array}$$

$$\begin{array}{r} 11.011 \text{ (3.375)} \\ + 10.110 \text{ (2.750)} \\ \hline 110.001 \text{ (6.125)} \end{array}$$

Digital Arithmetic

Milos D. Ercegovic, Tomás Lang



Digital Arithmetic:

Digital Arithmetic Milos D. Ercegovic, Tomás Lang, 2004 The authoritative reference on the theory and design practice of computer arithmetic *Digital Computer Arithmetic* Joseph Cavanagh, 1984 Adaptive and Natural Computing Algorithms Bernadete Ribeiro, 2005-03-08 The papers in this volume present theoretical insights and report practical applications both for neural networks genetic algorithms and evolutionary computation In the field of natural computing swarm optimization bioinformatics and computational biology contributions are no less compelling A wide selection of contributions report applications of neural networks to process engineering robotics and control Contributions also abound in the field of evolutionary computation particularly in combinatorial and optimization problems Many papers are dedicated to machine learning and heuristics hybrid intelligent systems and soft computing applications Some papers are devoted to quantum computation In addition kernel based algorithms able to solve tasks other than classification represent a revolution in pattern recognition bridging existing gaps Further topics are intelligent signal processing and computer vision

Technical Report - Jet Propulsion Laboratory, California Institute of Technology Jet Propulsion Laboratory (U.S.), 1964 Arithmetic Operations in Digital Computers Richard Kohler Richards, 2013-09 **A Gateway to Abstract Mathematics** , Official Gazette of the United States Patent and Trademark Office , 1997 *NBS Special Publication* , 1968 The Earliest Arithmetics in English Robert Steele, 1922 **Digital Computer Arithmetic** Joseph J. F. Cavanagh, 1984 **Encyclopedia of Computer Science and Technology** Phillip A. Laplante, 2017-10-02 With breadth and depth of coverage the Encyclopedia of Computer Science and Technology Second Edition has a multi disciplinary scope drawing together comprehensive coverage of the inter related aspects of computer science and technology The topics covered in this encyclopedia include General and reference Hardware Computer systems organization Networks Software and its engineering Theory of computation Mathematics of computing Information systems Security and privacy Human centered computing Computing methodologies Applied computing Professional issues Leading figures in the history of computer science The encyclopedia is structured according to the ACM Computing Classification System CCS first published in 1988 but subsequently revised in 2012 This classification system is the most comprehensive and is considered the de facto ontological framework for the computing field The encyclopedia brings together the information and historical context that students practicing professionals researchers and academicians need to have a strong and solid foundation in all aspects of computer science and technology The National Union Catalogs, 1963- , 1964 **Computer Literature Bibliography: 1964-1967** W. W. Youden, 1965 **Design of Arithmetic Units for Digital Computers** GOSLING, 2013-11-11 The original motivation for the development of digital computers was to make it possible to perform calculations that were too large to be attempted by a human being without serious likelihood of error Once the users found that they could achieve their initial aims they then wanted to go into greater detail and to solve still bigger problems so that the demand for extra computing

power has continued unabated and shows no sign of slackening This book is an attempt to describe some of the more important techniques used today or likely to be used in the near future to perform arithmetic within the computing machine There are at present few books in this field Most books on computer design cover the more elementary methods and some go into detail on one or two more ambitious units Space does not allow more In this text the aim has been to fill this gap in the literature In selecting the topics to be covered there have been two main aims first to deal with the basic procedures of arithmetic and then to carry on to the design of more powerful units second to maintain a strictly practical approach The number of mathematical formulae has been kept to a minimum and the more complex ones have been eliminated since they merely serve to obscure the essential principles Fiftieth Anniversary, 1912-1962 Institute of Radio Engineers, 1962

Advanced Arithmetic for the Digital Computer Ulrich W. Kulisch, 2012-09-07 The number one requirement for computer arithmetic has always been speed It is the main force that drives the technology With increased speed larger problems can be attempted To gain speed advanced processors and programming languages offer for instance compound arithmetic operations like matmul and dotproduct But there is another side to the computational coin the accuracy and reliability of the computed result Progress on this side is very important if not essential Compound arithmetic operations for instance should always deliver a correct result The user should not be obliged to perform an error analysis every time a compound arithmetic operation implemented by the hardware manufacturer or in the programming language is employed This treatise deals with computer arithmetic in a more general sense than usual Advanced computer arithmetic extends the accuracy of the elementary floating point operations for instance as defined by the IEEE arithmetic standard to all operations in the usual product spaces of computation the complex numbers the real and complex intervals and the real and complex vectors and matrices and their interval counterparts The implementation of advanced computer arithmetic by fast hardware is examined in this book Arithmetic units for its elementary components are described It is shown that the requirements for speed and for reliability do not conflict with each other Advanced computer arithmetic is superior to other arithmetic with respect to accuracy costs and speed The Mathematical Gazette ,1926 *Illinois Technograph* ,1952 **High Speed Computing** David Paul Casasent, 1988 *Basic Solid-state Electronics* / ,1983

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