



HCS12/9S12

AN INTRODUCTION TO SOFTWARE AND HARDWARE INTERFACING



HAN-WAY HUANG

Hcs129s12 An Introduction To Hardware And Software Interfacing

Patrick R. Schaumont



Hcs129s12 An Introduction To Hardware And Software Interfacing:

Microcontrollers Fundamentals for Engineers and Scientists Steven F. Barrett, Daniel J. Pack, 2022-06-01 This book provides practicing scientists and engineers a tutorial on the fundamental concepts and use of microcontrollers Today microcontrollers or single integrated circuit chip computers play critical roles in almost all instrumentation and control systems Most existing books are rewritten for undergraduate and graduate students taking an electrical and or computer engineering course Furthermore these texts have been written with a particular model of microcontroller as the target discussion These textbooks also require a requisite knowledge of digital design fundamentals This textbook presents the fundamental concepts common to all microcontrollers Our goals are to present the over arching theory of microcontroller operation and to provide a detailed discussion on constituent subsystems available in most microcontrollers With such goals we envision that the theory discussed in this book can be readily applied to a wide variety of microcontroller technologies allowing practicing scientists and engineers to become acquainted with basic concepts prior to beginning a design involving a specific microcontroller We have found that the fundamental principles of a given microcontroller are easily transferred to other controllers Although this is a relatively small book it is packed with useful information for quickly coming up to speed on microcontroller concepts

The HCS12/9S12 Han-Way Huang, 2006 Accompanying CD ROM contains datasheets programs software utilities CED ROM label

The HCS12 / 9S12: An Introduction to Software and Hardware Interfacing Han-Way Huang, 2009-03-25 This new book provides a total solution for learning and teaching embedded system design based on the Freescale HCS12 9S12 microcontroller Readers will learn step by step how to program the HCS12 using both assembly and C languages as well as how to use such development tools as CodeWarrior ImageCraft ICC12 MiniIDE GNU C and EGNU IDE Supportive examples clearly illustrate all applications of the HCS12 peripheral functions including parallel port timer functions PWM UART port SPI I2C CAN on chip flash and EEPROM programming external memory expansion and more New sections on C programming style software development methodology and software reuse have been added in this revision A back of book CD contains the source code for all examples in the book several groups of reusable utility functions and complimentary freeware development tools for improved learning Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

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The HCS12 / 9S12: An Introduction to Software and Hardware Interfacing Han-Way Huang, 2009-03-25 This new book provides a total solution for learning and teaching embedded system design based on the Freescale HCS12 9S12 microcontroller Readers will learn step by step how to program the HCS12 using both assembly and C languages as well as how to use such development tools as CodeWarrior ImageCraft ICC12 MiniIDE GNU C and EGNU IDE Supportive examples

clearly illustrate all applications of the HCS12 peripheral functions including parallel port timer functions PWM UART port SPI I2C CAN on chip flash and EEPROM programming external memory expansion and more New sections on C programming style software development methodology and software reuse have been added in this revision A back of book CD contains the source code for all examples in the book several groups of reusable utility functions and complimentary freeware development tools for improved learning Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

PIC Microcontroller Department of Electrical Engineering and Electronic Engineering Technology Han-Way Huang, Han-Way Huang, Leo Chartrand, 2004-07 This book presents a thorough introduction to the Microchip PIC microcontroller family including all of the PIC programming and interfacing for all the peripheral functions A step by step approach to PIC assembly language programming is presented with tutorials that demonstrate how to use such inherent development tools such as the Integrated Development Environment MPLAB PIC18 C compiler the ICD2 in circuit debugger and several demo boards Comprehensive coverage spans the topics of interrupts timer functions parallel I O ports various serial communications such as USART SPI I2C CAN A D converters and external memory expansion

Embedded System Design with C805 Han-Way Huang, 2008-12-05 This book provides a broad and systematic introduction to microcontrollers Through focusing on the 8051 8 bit microcontroller and its variants the text aims at helping students learn about modern microcontroller interfacing and applications For use with design projects this book also provides numerous more complicated examples to explore the functions and applications of the 8051 Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

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Summerville, 2022-05-31 The vast majority of computers in use today are encapsulated within other systems In contrast to general purpose computers that run an endless selection of software these embedded computers are often programmed for a very specific low level and often mundane purpose Low end microcontrollers costing as little as one dollar are often employed by engineers in designs that utilize only a small fraction of the processing capability of the device because it is either more cost effective than selecting an application specific part or because programmability offers custom functionality not otherwise available Embedded Systems Interfacing for Engineers using the Freescale HCS08 Microcontroller is a two part book intended to provide an introduction to hardware and software interfacing for engineers Building from a comprehensive introduction of fundamental computing concepts the book is suitable for a first course in computer organization for electrical or computer engineering students with a minimal background in digital logic and programming In addition this book can be valuable as a reference for engineers new to the Freescale HCS08 family of microcontrollers The HCS08 processor architecture used in the book is relatively simple to learn powerful enough to apply towards a wide range of interfacing tasks and accommodates breadboard prototyping in a laboratory using freely available and low cost tools In Part

II Digital and Analog Hardware Interfacing hardware and software interfacing concepts are introduced The emphasis of this work is on good hardware and software engineering design principles Device drivers are developed illustrating the use of general purpose and special purpose digital I O interfaces analog interfaces serial interfaces and real time I O processing The hardware side of each interface is described and electrical specifications and related issues are considered The first part of the book provides the programming skills necessary to implement the software in this part Table of Contents Introduction to the MC9S08QG4 8 Hardware Analog Input Serial Communication Real Time I O Processing *A Practical Introduction to Hardware/Software Codesign* Patrick R. Schaumont,2012-11-27 This textbook serves as an introduction to the subject of embedded systems design with emphasis on integration of custom hardware components with software The key problem addressed in the book is the following how can an embedded systems designer strike a balance between flexibility and efficiency The book describes how combining hardware design with software design leads to a solution to this important computer engineering problem The book covers four topics in hardware software codesign fundamentals the design space of custom architectures the hardware software interface and application examples The book comes with an associated design environment that helps the reader to perform experiments in hardware software codesign Each chapter also includes exercises and further reading suggestions Improvements in this second edition include labs and examples using modern FPGA environments from Xilinx and Altera which will make the material in this book applicable to a greater number of courses where these tools are already in use More examples and exercises have been added throughout the book If I were teaching a course on this subject I would use this as a resource and text If I were a student who wanted to learn codesign I would look for a course that at least used a similar approach If I were an engineer or engineering manager who wanted to learn more about codesign from a very practical perspective I would read this book first before any other When I first started learning about codesign as a practitioner a book like this would have been the perfect introduction Grant Martin Tensilica

The Atmel AVR Microcontroller: MEGA and XMEGA in Assembly and C Han-Way Huang,2013-01-14 Offering comprehensive cutting edge coverage THE ATMEL AVR MICROCONTROLLER MEGA AND XMEGA IN ASSEMBLY AND C delivers a systematic introduction to the popular Atmel 8 bit AVR microcontroller with an emphasis on the MEGA and XMEGA subfamilies It begins with a concise and complete introduction to the assembly language programming before progressing to a review of C language syntax that helps with programming the AVR microcontroller Emphasis is placed on a wide variety of peripheral functions useful in embedded system design Vivid examples demonstrate the applications of each peripheral function which are programmed using both the assembly and C languages Important Notice Media content referenced within the product description or the product text may not be available in the ebook version *MC68HC11, an Introduction* Han-Way Huang,2000 Master the basics of interface programming step by step using assembly language and C language Back cover *An Introduction* Han-Way Huang,1996 [PIC Microcontroller](#) Han-Way Huang,2005 This book

presents a thorough introduction to the Microchip PIC microcontroller family including all of the PIC programming and interfacing for all the peripheral functions A step by step approach to PIC assembly language programming is presented with tutorials that demonstrate how to use such inherent development tools such as the Integrated Development Environment MPLAB PIC18 C compiler the ICD2 in circuit debugger and several demo boards Comprehensive coverage spans the topics of interrupts timer functions parallel I O ports various serial communications such as USART SPI I2C CAN A D converters and external memory expansion *MC68HC12* Han-Way Huang,2003 *Introduction to Embedded Systems* Jonathan Valvano,2016-08-17 This book is a subset of *Embedded Systems Introduction to ARM Cortex M Microcontrollers Volume 1* ISBN 978 1477508992 configured for specific use in EE319K Introduction to Embedded Systems taught at the University of Texas at Austin It is first edition fourth printing December 2017 The section numbers in this book also specify the corresponding section in the original book This first book is an introduction to computers and interfacing focusing on assembly language and C programming The second book *Embedded Systems Real Time Interfacing to ARM Cortex M Microcontrollers* focuses on hardware software interfacing and the design of embedded systems The third book *Embedded Systems Real Time Operating Systems for ARM Cortex M Microcontrollers* is an advanced book focusing on operating systems high speed interfacing control systems and robotics The third volume could also be used for professionals wishing to design or deploy a real time operating system onto an ARM platform There is a web site accompanying this book <http://users.ece.utexas.edu/valvano/arm> Posted here are ARM Keil uVision and Texas Instruments Code Composer Studio projects for each of the example programs in the book **COMPUTER INTERFACING AND AUTOMATION** DR. J. ANTONY,2020

A Practical Introduction to Hardware/Software Codesign Patrick Schaumont,2011-03-02 This is a practical book for computer engineers who want to understand or implement hardware software systems It focuses on problems that require one to combine hardware design with software design such problems can be solved with hardware software codesign When used properly hardware software co sign works better than hardware design or software design alone it can improve the overall performance of digital systems and it can shorten their design time Hardware software codesign can help a designer to make trade offs between the exibility and the performanceof a digital system To achieve this a designer needs to combine two radically different ways of design the sequential way of dec position in time using software with the parallel way of decomposition in space using hardware Intended Audience This book assumes that you have a basic understandingof hardware that you are miliar with standard digital hardware componentssuch as registers logic gates and components such as multiplexers and arithmetic operators The book also assumes that you know how to write a program in C These topics are usually covered in an introductory course on computer engineering or in a combination of courses on digital design and software engineering [Microprocessors and Peripherals](#) Barry B. Brey,1988 **Handbook of Software and Hardware Interfacing for IBM PCs** Jeffrey P. Royer,1987 **Embedded Linux** Craig Hollabaugh,2002 A guide to using Linux on

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