Math Functions in C Standard Library

Function Name	Math Name	Value	Example		
`abs(x)`	absolute value	$\lvert x \rvert$	`abs(-1)`	returns	1
`fabs(x)`	absolute value	$\lvert x \rvert$	`fabs(-3.2)`	returns	3.2
`pow(x,y)`	raise to the power	x^y	`pow(2.0, 3.0)`	returns	8.0
`sqrt(x)`	square root	$x^{0.5}$	`sqrt(2.0)`	returns	1.414...
`exp(x)`	exponential	e^x	`exp(1.0)`	returns	2.718...
`log(x)`	natural logarithm	$\ln x$	`log(2.718...)`	returns	1.0
`log10(x)`	common logarithm	$\log x$	`log10(100.0)`	returns	2.0
`sin(x)`	sine	$\sin x$	`sin(3.14...)`	returns	0.0
`cos(x)`	cosine	$\cos x$	`cos(3.14...)`	returns	-1.0
`tan(x)`	tangent	$\tan x$	`tan(3.14...)`	returns	0.0
`ceil(x)`	ceiling	$\lceil x \rceil$	`ceil(2.5)`	returns	3.0
`floor(x)`	floor	$\lfloor x \rfloor$	`floor(2.5)`	returns	2.0

Common C Functions

Edward John Routh

Common C Functions:

Sams Teach Yourself C Programming in One Hour a Day Bradley Jones,Peter G. Aitken,Dean Miller,2013 Sams Teach Yourself C Programming in One Hour a Day Seventh Edition is the newest version of the worldwide best seller Sams Teach Yourself C in 21 Days Fully revised for the new C11 standard and libraries it now emphasizes platform independent C programming using free open source C compilers This edition strengthens its focus on C programming fundamentals and adds new material on popular C based object oriented programming languages such as Objective C Filled with carefully explained code clear syntax examples and well crafted exercises this is the broadest and deepest introductory C tutorial available It s ideal for anyone who s serious about truly mastering C including thousands of developers who want to leverage its speed and performance in modern mobile and gaming apps Friendly and accessible it delivers step by step hands on experience that starts with simple tasks and gradually builds to professional quality techniques Each lesson is designed to be completed in hour or less introducing and clearly explaining essential concepts providing practical examples and encouraging you to build simple programs on your own Coverage includes Understanding C program components and structure Mastering essential C syntax and program control Using core language features including numeric arrays pointers characters strings structures and variable scope Interacting with the screen printer and keyboard Using functions and exploring the C Function Library Working with memory and the compiler Contents at a Glance PART I FUNDAMENTALS OF C 1 Getting Started with C 2 The Components of a C Program 3 Storing Information Variables and Constants 4 The Pieces of a C Program Statements Expressions and Operators 5 Packaging Code in Functions 6 Basic Program Control 7 Fundamentals of Reading and Writing Information PART II PUTTING C TO WORK 8 Using Numeric Arrays 9 Understanding Pointers 10 Working with Characters and Strings 11 Implementing Structures Unions and TypeDefs 12 Understanding Variable Scope 13 Advanced Program Control 14 Working with the Screen Printer and Keyboard PART III ADVANCED C 15 Pointers to Pointers and Arrays of Pointers 16 Pointers to Functions and Linked Lists 17 Using Disk Files 18 Manipulating Strings 19 Getting More from Functions 20 Exploring the C Function Library 21 Working with Memory 22 Advanced Compiler Use PART IV APPENDIXES A ASCII Chart B C C Reserved Words C Common C Functions D Answers **Professional Assembly Language** Richard Blum,2005-02-22 Unlike high level languages such as Java and C assemblylanguage is much closer to the machine code that actually runscomputers it s used to create programs or modules that are veryfast and efficient as well as in hacking exploits and reverseengineering Covering assembly language in the Pentium microprocessorenvironment this code intensive guide shows programmers how tocreate stand alone assembly language programs as well as how toincorporate assembly language libraries or routines into existinghigh level applications Demonstrates how to manipulate data incorporate advancedfunctions and libraries and maximize application performance Examples use C as a high level language Linux as thedevelopment environment and GNU tools for assembling compiling linking and debugging

Embedded C Programming Mark Siegesmund,2014-09-26 This book provides a hands on introductory course on concepts of C programming using a PIC microcontroller and CCS C compiler Through a project based approach this book provides an easy to understand method of learning the correct and efficient practices to program a PIC microcontroller in C language Principles of C programming are introduced gradually building on skill sets and knowledge Early chapters emphasize the understanding of C language through experience and exercises while the latter half of the book covers the PIC microcontroller its peripherals and how to use those peripherals from within C in great detail This book demonstrates the programming methodology and tools used by most professionals in embedded design and will enable you to apply your knowledge and programming skills for any real life application Providing a step by step guide to the subject matter this book will encourage you to alter expand and customize code for use in your own projects A complete introduction to C programming using PIC microcontrollers with a focus on real world applications programming methodology and tools Each chapter includes C code project examples tables graphs charts references photographs schematic diagrams flow charts and compiler compatibility notes to channel your knowledge into real world examples Online materials include presentation slides extended tests exercises quizzes and answers real world case studies videos and weblinks **OpenCL Programming Guide** Aaftab Munshi,Benedict Gaster,Timothy G. Mattson,Dan Ginsburg,2011-07-07 Using the new OpenCL Open Computing Language standard you can write applications that access all available programming resources CPUs GPUs and other processors such as DSPs and the Cell B E processor Already implemented by Apple AMD Intel IBM NVIDIA and other leaders OpenCL has outstanding potential for PCs servers handheld embedded devices high performance computing and even cloud systems This is the first comprehensive authoritative and practical guide to OpenCL 1 1 specifically for working developers and software architects Written by five leading OpenCL authorities OpenCL Programming Guide covers the entire specification It reviews key use cases shows how OpenCL can express a wide range of parallel algorithms and offers complete reference material on both the API and OpenCL C programming language Through complete case studies and downloadable code examples the authors show how to write complex parallel programs that decompose workloads across many different devices They also present all the essentials of OpenCL software performance optimization including probing and adapting to hardware Coverage includes Understanding OpenCL s architecture concepts terminology goals and rationale Programming with OpenCL C and the runtime API Using buffers sub buffers images samplers and events Sharing and synchronizing data with OpenGL and Microsoft s Direct3D Simplifying development with the C Wrapper API Using OpenCL Embedded Profiles to support devices ranging from cellphones to supercomputer nodes Case studies dealing with physics simulation image and signal processing such as image histograms edge detection filters Fast Fourier Transforms and optical flow math libraries such as matrix multiplication and high performance sparse matrix multiplication and more Source code for this book is available at https code google com p opencl book samples *C for Fortran Programmers* T. D. Brown,1990

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Programming in Standard C ,1992 Describes the C compilation system for UNIX System V Release 4 0 or later It also provides pointers on transitioning to ANSI ISO C The guide covers how to comply with standard C debugging from the CLI multiprocess debugging using debug with GUIs C profiling utilities and using the cscope Browser *Lectures Introductory to the Theory of Functions of Two Complex Variables* Andrew Russell Forsyth,1914 **The Advanced Part of A Treatise on the Dynamics of a System of Rigid Bodies** Edward John Routh,1884 The Elementary Part of A Treatise on the Dynamics of a System of Rigid Bodies Edward John Routh,1884 An Introduction to the Theory of Multiply Periodic Functions Henry Frederick Baker,1907 *Number and Its Algebra* Arthur Lefevre,1903 A Treatise on the Theory of Functions James Harkness,Frank Morley,1925 The Mechanical Engineer's Reference Book for Machine and Boiler Construction Nelson Foley,1891 *Algebra* George Chrystal,1904

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