

SDCC - Small Device C Compiler

[SDCC Home](#)

[News](#)
[Platforms](#)
[Download](#)
[Support](#)
[Who](#)

[Snapshots](#)

[Linux](#)
[Windows](#)
[Mac OS X](#)
[Documentation](#)
[Source](#)

[Regression Tests](#)

[Download CSV](#)
[Differences](#)

[Documentation](#)

[SDCC Manual \(pdf\)](#)

[SDCC at SourceForge](#)

[SDCC File Releases](#)

What is SDCC?

SDCC is a retargettable, optimizing Standard C (ANSI C89, ISO C99, ISO C11) compiler suite that targets the *Intel MCS51* based microprocessors (8031, 8032, 8051, 8052, etc.), *Maxim* (formerly *Dallas*) *DS80C390* variants, *Freescale* (formerly *Motorola*) *HC08* based (hc08, s08), *Zilog Z80* based MCUs (z80, z180, gbz80, *Rabbit 2000/3000*, *Rabbit 3000A*, *TLC5-90*), *Padauk* (pdk14, pdk15) and *STMicroelectronics STM8*. Work is in progress on supporting the *Padauk* (pdk13), *Microchip PIC16* and *PIC18* targets. It can be retargeted for other microprocessors.

SDCC suite is a collection of several components derived from different sources with different FOSS licenses. SDCC compiler suite include:

- **sdas** and **sdld**, a retargettable assembler and linker, based on **ASXXXX**, written by Alan Baldwin; (GPL).
- **sdepp** preprocessor, based on **GCC cpp**; (GPL).
- **ucsim** simulators, originally written by Daniel Drotos; (GPL).
- **sdedb** source level debugger, originally written by Sandeep Dutta; (GPL).
- **sdbinutils** library archive utilities, including **sdar**, **sdarlib** and **sdnm**, derived from GNU Binutils; (GPL)
- **SDCC run-time libraries**; (GPL+LE). Pic device libraries and header files are derived from Microchip header (.inc) and linker script (.ldr) files. Microchip requires that "The header files should state that they are only to be used with authentic Microchip devices" which makes them incompatible with the GPL.
- **gcc-test** regression tests, derived from **gcc-testsuite**; (no license explicitly specified, but since it is a part of GCC is probably GPL licensed)
- **packihx**; (public domain)
- **makebin**; (zlib/libpng License)
- **sdcc** C compiler, originally written by Sandeep Dutta; (GPL). Some of the features include:

Small Device C Compiler Manual

Jan Buiting



Small Device C Compiler Manual:

Objective-C Programmer's Reference Carlos Oliveira, 2014-01-20 Objective C Programmer's Reference provides the tools necessary to write software in Objective C the language of choice for developing iOS and OS X applications Author Carlos Oliveira begins from the basic building blocks of the language He shows how to create correct and efficient applications by applying your knowledge of object oriented and structured programming This book Takes you quickly through fundamental concepts such as interfaces and class implementations Provides a concise reference to the Foundation Framework that is all important when programming in Objective C Highlights key differences between Objective C and other popular languages such as Java or Python Provides the fundamentals of Cocoa and Cocoa Touch which are the standard for OS X and iOS development Objective C Programmer's Reference makes extensive use of concepts already mastered by developers who are fluent in other languages such as C Java Perl and Python The author's approach is logical and structured and even novice developers will have an easy time absorbing the most important topics necessary to program in Objective C Objective C Programmer's Reference is a book for professional developers in Objective C or those who are moving to Objective C from other languages The book is written for readers who lack the time to invest in more traditional books which usually spend hundreds of pages to explain concepts that are part of the working programmer's standard vocabulary

Hardware Hacking Projects for Geeks Scott Fullam, 2004-01-28 A collection of unusual projects for computer hardware geeks of all ages explains how to create such projects as a personal Lojack system Web enabled coffee machine cubicle intrusion detection systems and a laptop battery extender

Beginning Programming All-in-One Desk Reference For Dummies Wallace Wang, 2008-06-03 he fun fast and easy way to learn programming fundamentals and essentials from C to Visual Basic and all the languages in between So you want to be a programmer Or maybe you just want to make your computer do what YOU want for a change Maybe you enjoy the challenge of identifying a problem and solving it If programming intrigues you for whatever reason Beginning Programming All In One Desk Reference For Dummies is like having a starter programming library all in one handy if hefty book In this practical guide you ll find out about algorithms best practices compiling debugging your programs and much more The concepts are illustrated in several different programming languages so you ll get a feel for the variety of languages and the needs they fill Inside you ll discover seven minibooks Getting Started From learning methods for writing programs to becoming familiar with types of programming languages you ll lay the foundation for your programming adventure with this minibook Programming Basics Here you ll dive into how programs work variables data types branching looping subprograms objects and more Data Structures From structures arrays sets linked lists and collections to stacks queues graphs and trees you ll dig deeply into the data Algorithms This minibook shows you how to sort and search algorithms how to use string searching and gets into data compression and encryption Web Programming Learn everything you need to know about coding for the web HyperText Markup Language better known simply as HTML CSS

JavaScript PHP and Ruby Programming Language Syntax Introduces you to the syntax of various languages C C Java C Perl Python Pascal Delphi Visual Basic REALbasic so you know when to use which one Applications This is the fun part where you put your newly developed programming skills to work in practical ways Additionally Beginning Programming All In One Desk Reference For Dummies shows you how to decide what you want your program to do turn your instructions into machine language that the computer understands use programming best practices explore the how and why of data structuring and more And you ll get a look into various applications like database management bioinformatics computer security and artificial intelligence After you get this book and start coding you ll soon realize that wow You re a programmer

308 Circuits Jan Buiting, 2003 This is the ninth in the 300 series of circuit design books again contains a wide range of circuits tips and design ideas The book has been divided into sections making it easy to find related subjects in a single category The book not only details DIY electronic circuits for home construction but also inspiring ideas for projects you may want to design from the ground up Because software in general and microcontroller programming techniques in particular have become key aspects of modern electronics a number of items in this book deal with these subjects only Like its predecessors in the 300 series 308 Circuits covers the following disciplines and interest fields of modern electronics test and measurement radio and television power supplies and battery chargers general interest computers and microprocessors circuit ideas and audio and hi fi

C# 5.0 Programmer's Reference Rod Stephens, 2014-04-22 Stay ahead of the game with this comprehensive guide to the C programming language Well known C expert Rod Stephens gives novice and experienced developers a comprehensive tutorial and reference to standard C This new title fully covers the latest C language standard C 5 0 as well as its implementation in the 2013 release of Visual Studio The author provides exercises and solutions and his C Helper website will provide readers and students with ongoing support This resource is packed with tips tricks tutorials examples and exercises and is the perfect professional companion for programmers who want to stay ahead of the game Author Rod Stephens is a well known programming authority and has written more than 25 programming books covering C Java VB and other languages His books have sold more than 150 000 copies in multiple editions This book s useful exercises and solutions are designed to support training and higher education adoptions Learn the full range of C programming language features Quickly locate information for specific language features in the reference section Familiarize yourself with handling data types variables constants and much more Experiment with editing and debugging code and using LINQ Beginning through intermediate level programmers will benefit from the accessible style of C 5 0 Programmer s Reference and will have access to its comprehensive range of more advanced topics Additional support and complementary material are provided at the C Helper website www.csharpHelper.com Stay up to date and improve your programming skills with this invaluable resource

Rexx Programmer's Reference Howard Fosdick, 2005-02-18 Originally developed for mainframes but highly portable across platforms from servers to desktops to handhelds Rexx is an easy yet powerful scripting language that s widely used for

rapid application development Covers Rexx interpreters for specialized functions object oriented mainframe and handheld There are 8 different free Rexx interpreters optimized for different platforms and uses This book shows how to use them all Shows how to script for GUIs databases web servers XML and other interfaces Details how to make the best use of Rexx tools and interfaces with examples for both Linux and Windows Includes a tutorial with lots of examples to help people get up and running

Advances in Info-Metrics Min Chen,J. Michael Dunn,Amos Golan,Aman Ullah,2020 Info metrics is a framework for rational inference on the basis of limited or insufficient information It is the science of modeling reasoning and drawing inferences under conditions of noisy and insufficient information Info metrics has its roots in information theory Shannon 1948 Bernoulli s and Laplace s principle of insufficient reason Bernoulli 1713 and its offspring the principle of maximum entropy Jaynes 1957 It is an interdisciplinary framework situated at the intersection of information theory statistical inference and decision making under uncertainty Within a constrained optimization setup info metrics provides a simple way for modeling and understanding all types of systems and problems It is a framework for processing the available information with minimal reliance on assumptions and information that cannot be validated Quite often a model cannot be validated with finite data Examples include biological social and behavioral models as well as models of cognition and knowledge The info metrics framework extends naturally for tackling these types of common problems

Tools and Algorithms for the Construction and Analysis of Systems Erika Abraham,Klaus Havelund,2014-03-21 This book constitutes the proceedings of the 20th International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2014 which took place in Grenoble France in April 2014 as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2014 The total of 42 papers included in this volume consisting of 26 research papers 3 case study papers 6 regular tool papers and 7 tool demonstrations papers were carefully reviewed and selected from 161 submissions In addition the book contains one invited contribution The papers are organized in topical sections named decision procedures and their application in analysis complexity and termination analysis modeling and model checking discrete systems timed and hybrid systems monitoring fault detection and identification competition on software verification specifying and checking linear time properties synthesis and learning quantum and probabilistic systems as well as tool demonstrations and case studies

Fixing Access Annoyances Phil Mitchell,Evan Callahan,2006-02-21 When an application is part of the Microsoft Office suite it s sure to be a leader in its field In the realm of desktop database management Access is top dog with millions of users But this is one dog that can bite Although Access is a powerful relational tool with the fetching talents of a Labrador it s not an easy beast to train Still millions of users count on Access for everything from managing parts databases to running Web catalogs to working as a front end to mondo SQL databases But Access is chockablock with annoyances report hassles query conundrums VBA bugs arcane error messages and more O Reilly s Annoyances series offer real world help right now and Fixing Access Annoyances continues tradition You ll not only squash bugs and workaround Access limits but you ll learn how

to use Access to the max whether you re a newbie or a seasoned pro Coverage includes install configuration annoyances building better tables and queries creating forms that work right generating reliable and sophisticated reports pulling in data from a variety of sources crafting macros and VBA code to customize Access and much more You could grab those other books for help but do they solve problems from page one Meet a book of a different stripe The authors come armed with knowledge of the program s quirks design hurdles and interface snags They provide you with battle plans in Fixing Access Annoyances to save you time and bouts of hair pulling Stop information from spiraling out of control when working with Access and trying to make this thing work Don t let its quirks bugs and troublemaking features beat you Who you gonna call for help Instead of waiting on the line for tech support or searching for the answer on the Internet with its too many resources to find exactly what you need take control of databases with Fixing Access Annoyances your partner on database adventures

Computational Intelligence and Sustainable Systems H. Anandakumar,R. Arulmurugan,Chow Chee Onn,2018-12-14 This book features research related to computational intelligence and energy and thermal aware management of computing resources The authors publish original and timely research in current areas of power energy temperature and environmental engineering as and advances in computational intelligence that are benefiting the fields Topics include signal processing architectures algorithms and applications biomedical informatics and computation artificial intelligence and machine learning green technologies in information and more The book includes contributions from a wide range of researchers academicians and industry professionals The book is made up both of extended papers presented at the International Conference on Intelligent Computing and Sustainable System ICICSS 2018 September 20 21 2018 and other accepted papers on R D and original research work related to the practice and theory of technologies to enable and support Intelligent Computing applications

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Sun Performance and Tuning Adrian Cockcroft,Richard Pettit,1998 This book is an indispensable reference for developers and administrators who want to maximize the performance of their Sun systems Revised and updated to cover the latest SPARC and software release including Solaris 2 6 This book presents a collaboration of configuration and performance information not available anywhere else

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Field-Programmable Custom Computing Technology: Architectures, Tools, and Applications Jeffrey Arnold,Wayne Luk,Ken Pocek,2012-12-06 Field Programmable Custom Computing Technology Architectures Tools and Applications brings together in one place important contributions and up to date research results in this fast moving area In seven selected chapters the book describes the latest advances in architectures design methods and applications of field

programmable devices for high performance reconfigurable systems The contributors to this work were selected from the leading researchers and practitioners in the field It will be valuable to anyone working or researching in the field of custom computing technology It serves as an excellent reference providing insight into some of the most challenging issues being examined today Programmer's Journal ,1987 Communicating Process Architectures 2006 Peter H. Welch,Jon Kerridge,Frederick R. M. Barnes,2006 Contains papers from the conference Communicating Process Architectures 2006 This work talks about various aspects of communicating process theory and their application to designing and building systems It includes a case study on large scale formal development and verification CSP mechanisms for Microsoft s NET framework and more , **PC Mag** ,1986-08 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology *The APDalog* ,1990 *PC Mag* ,1986-11-25 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology

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Table of Contents Small Device C Compiler Manual

1. Understanding the eBook Small Device C Compiler Manual
 - The Rise of Digital Reading Small Device C Compiler Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Small Device C Compiler Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Small Device C Compiler Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Small Device C Compiler Manual
 - Personalized Recommendations
 - Small Device C Compiler Manual User Reviews and Ratings

- Small Device C Compiler Manual and Bestseller Lists
- 5. Accessing Small Device C Compiler Manual Free and Paid eBooks
 - Small Device C Compiler Manual Public Domain eBooks
 - Small Device C Compiler Manual eBook Subscription Services
 - Small Device C Compiler Manual Budget-Friendly Options
- 6. Navigating Small Device C Compiler Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Small Device C Compiler Manual Compatibility with Devices
 - Small Device C Compiler Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Small Device C Compiler Manual
 - Highlighting and Note-Taking Small Device C Compiler Manual
 - Interactive Elements Small Device C Compiler Manual
- 8. Staying Engaged with Small Device C Compiler Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Small Device C Compiler Manual
- 9. Balancing eBooks and Physical Books Small Device C Compiler Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Small Device C Compiler Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Small Device C Compiler Manual
 - Setting Reading Goals Small Device C Compiler Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Small Device C Compiler Manual
 - Fact-Checking eBook Content of Small Device C Compiler Manual
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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mar 9 2022 in 2021 the bodybuilding and fitness community lost 21 dedicated bodybuilders it became one of the darkest times in bodybuilding history and sparked outrage in the bodybuilding community the center of the conversation was focused on steroid use despite the fact that some of these deaths were noted as a result of non steroid related issues

cedric mcmillan star bodybuilder dead at 44 cnn - Dec 11 2022

apr 13 2022 cnn bodybuilder cedric mcmillan has died at the age of 44 his sponsor confirmed tuesday we regret to inform you that our friend and brother cedricmcmillan passed away today cedric will

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the sudden death of renowned bodybuilder yogesh has shocked the fitness community yogesh a nine time champion died shortly after a workout session at a gym in chennai preliminary

female bodybuilder and fitness influencer dies suddenly - Mar 14 2023

1 day ago back in aug 2023 another young female fitness influencer larissa borges from brazil died after suffering two heart attacks in borges case there was the possibility of alcohol and narcotics being a contributing factor to the sudden cardiac arrests raechelle chase a popular new zealander female bodybuilder and fitness influencer died

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oct 20 2023 in february 2023 it was reported that champion bodybuilder tonya knight had passed away aged 56 following a lengthy battle with cancer tonya was an american champion bodybuilder who was born in

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jun 6 2023 hiv and viral hepatitis along with sharing needles may also be the cause of death among bodybuilders the mortality of rate of bodybuilders compared to the male population is 34 higher in 2023 professional bodybuilders were found to die at a lower rate than professional wrestlers

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jan 18 2022 bodybuilding deaths 2022 tue 2022 01 18 17 29 every year we report on the sad news of deaths in bodybuilding this is without question our least favourite topic to cover but these icons deserve to be remembered for the inspiration they provided the lives they touched and how they helped shape the industry as we know it today

mr olympia champion bodybuilder shawn rhoden dies aged 46 - Feb 13 2023

nov 6 2021 rhoden who was crowned mr olympia in 2018 at the age of 43 making him the oldest bodybuilder to ever win the title remained committed to bodybuilding until his death while an official

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113k subscribers 770k views 6 months ago cedricmcmillan bostinloyd zemfitness last year again bodybuilding community witnessed large numbers of sudden deaths 2022 has been marked with too

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fri 2021 10 15 19 30 throughout this past year we ve shared the news far too often of great names in the bodybuilding community that has passed away anytime we hear of another fitness icon that has passed it seems to tear away a piece of us that just can t be replaced

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jan 30 2023 premature deaths in bodybuilders regularly make headlines and are cited as evidence that bodybuilding is a dangerous activity a wealth of research has revealed elite athletes typically enjoy lower mortality rates than non athletes but research on bodybuilder lifespan is surprisingly limited

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bodybuilder raechelle chase dies suddenly with cause of death - May 16 2023

oct 20 2023 raechelle s rise to fame raechelle was most well known for being a fitness influencer and a former bodybuilder

her career started in bodybuilding where she became the first kiwi woman to have taken part in the figure olympia bodybuilding event back in 2011 in las vegas she later became an internet sensation getting a whopping 1 4million facebook

champion bodybuilder killed at the gym leaving bodybuilding - Jun 05 2022

oct 20 2023 eustacio batista dias was a brazilian bodybuilder who had around 11 000 followers on instagram the 27 year old used to share his training rituals with his fans but a mistake on tuesday cost him his life two gunmen shot and killed the brazilian bodybuilder while he was training at the gym if reports were to be believed the accused got to

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