

SDCC - Small Device C Compiler

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What is SDCC?

SDCC is a **retargettable, optimizing ANSI - C compiler suite** that targets the **8051 MCS51** based microprocessors (**8031, 8032, 8051, 8052, etc.**), **Maxim** (formerly **Dallas**) **D580C390** variants, **Freescale** (formerly **Motorola**) **HC08** based (**HC08, s08**) and **Z80** based MCUs (**z80, z180, gbz80, Rabbit 2000/3000, Rabbit 3000A**). Work is in progress on supporting the **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 **ASIXXXX**, written by Alan Baldwin; (GPL).
- **sdcpp** preprocessor, based on **GCC cpp**; (GPL).
- **ucsim** simulators, originally written by Daniel Drotos; (GPL).
- **sdcdb** source level debugger, originally written by Sandeep Dutta; (GPL).
- **sdbinutils** library archive utilities, including **sdc ar**, **sdc nm** and **sdc nm**, derived from GNU Binutils; (GPL).
- **SDCC run-time libraries**; (GPL+LIE). Pic device libraries and header files are derived from Microchip header (.inc) and linker script (.ld) 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/zlibpng license)
- **sdcc** C compiler, originally written by Sandeep Dutta; (GPL). Some of the features include:
 - extensive MCU specific language extensions, allowing effective use of the underlying hardware.
 - a host of standard optimizations such as global sub expression elimination, loop optimizations (loop invariant, strength reduction of induction variables and loop reversing), constant folding and propagation, copy propagation, dead code elimination and jump tables for 'switch' statements.
 - MCU specific optimizations, including a global register allocator.
 - adaptable MCU specific backend that should be well suited for other 8 bit MCUs
 - independent rule based peep hole optimizer.
 - a full range of data types: **char** (8 bits, 1 byte), **short** (16 bits, 2 bytes), **int** (16 bits, 2 bytes), **long** (32 bit, 4 bytes), **float** (4 byte IEEE) and **_float/float**; basic (no integer constants) support for **long long** (64 bit, 8 bytes) data types for the z80, z180, r2k, r3ka, gbz80, hc08 and s08 targets.
 - the ability to add inline assembler code anywhere in a function.
 - the ability to report on the complexity of a function to help decide what should be re-written in assembler.
 - a good selection of automated regression tests.

SDCC was written by Sandeep Dutta and released under a **GPL** license. Since its initial release there have been numerous bug fixes and improvements. As of December 1999, the code was moved to SourceForge where all the "users turned developers" can access the same source tree. SDCC is constantly being updated with all the users' and developers' input.

News

May 20th, 2013: Small Device C Compiler 3.3.0 released.

A new release of SDCC, the portable optimizing compiler for 8051, D5390, Z80, Z180, Rabbit 2000, HC08 and PIC microprocessors is now available (<http://sdcc.sourceforge.net>). Sources, documentation and binaries compiled for x86 Linux, x86 and x64 MS Windows and x86 and PPC Mac OS X are available.

SDCC 3.3.0 Feature List:

- Many small improvements in code generation for the z80-related ports - merged smallopts branch
- **iospre** (currently enabled for z80-related and hc08-related ports only) - merged iospre branch
- More efficient initialization of globals in z80, z180, r2k and r3ka ports.
- Inclusion of tests from the gcc test suite into the sdcc regression test suite led to many bugs being found and fixed.
- Split **sdas390** from **sdas8051**
- Merged big parts of **ASIXXXX v5** into **sdas**
- New pic devices (synchronization with MPLABX 1.60). (Except for very old MCU-s.)
- New script which disassembles those hex files, in which MCS51 code there is. (**mcs51-disasm.py**)
- Added the **PIC16F1788** and **PIC16F1789** devices.
- C11 **_Alignof** operator.
- C11 **_Alignas** alignment specifier.
- C11 **_Static_Assert** static assertion.

Numerous feature requests and bug fixes are included as well.

You can download the release from:

<https://sourceforge.net/projects/sdcc/files/>

What Platforms are Supported?

Linux - x86, **Microsoft Windows - x86**, **Microsoft Windows - x86_64** and **Mac OS X** are the primary, so called "officially supported" platforms.

Small Device C Compiler Manual

Phil Mitchell,Evan Callahan



Small Device C Compiler Manual:

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 [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

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