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This is the standard library for Microchip (formerly Atmel) AVR devices together with the AVR-GCC compiler. The library contains most of the functionality required by the ISO C standard, with the notable exception of wchar t support. It also contains a lot of auxiliary functionality targeted to the AVR controller family. Further, it includes customizable startup code, tailored to work together with the linker scripts provided by the GNU Binutils, so for most AVR applications, there is usually no need to provide project-specific files for that purpose. See the documentation for details. The library is distributed using a modified BSD-style license. The official source code repository is located at . AVR-LibC depends on GNU Binutils and GCC that should be built for the AVR target. We recommend to use the most recent versions of these tools. Detailed instructions on building the GNU Tool Chain. Note that to build AVR-LibC directly by cloning the GitHub repository, you will need to run the bootstrap script in the root directory first. AVR-LibC uses autoconf so be sure to use recent versions of autoconf and automake to generate the configure script and the Makefiles. This also requires Python being installed and available in the system path. The latest version of this document is always available from The AVR Libc package provides a subset of the standard C library for Atmel AVR 8-bit RISC microcontrollers. In addition, the library provides the basic startup code needed by most applications. There is a wealth of information in this document which goes beyond simply describing the interfaces and routines provided by the library. We hope that this document provides enough information to get a new AVR developer up to speed quickly using the freely available development tools: binutils, gcc avr-libc and many others. If you find yourself stuck on a problem which this document doesn't quite address, you may wish to post a message to the avr-gcc mailing list. Most of the developers of the AVR binutils and gcc ports in addition to the devleopers of avr-libc subscribe to the list, so you will usually be able to get your problem resolved. You can subscribe to the list, you might want to try reading the Frequently Asked Questions chapter of this document. Note: If you think you've found a bug, or have a suggestion for an improvement, either in this documentation or in the library itself, please use the bug tracker at to ensure the issue won't be forgotten. In general, it has been the goal to stick as best as possible to established standards while implementing this library. Commonly, this refers to the C library as described by the ANSI X3.159-1989 and ISO/IEC 9899:1990 ("ANSI-C") standard, as well as parts of their successor ISO/IEC 9899:1999 ("C99"). Some additions have been inspired by other standards like IEEE Std 1003.1-1988 ("POSIX.1"), while other extensions are purely AVR-specific (like the entire program-space string interface). particular, any functions that store local state are known to be non-reentrant, as well as functions that manipulate IO registers like the EEPROM access routines. If these functions are used within both standard and interrupt contexts undefined behaviour will result. See the FAQ for a more detailed discussion. The following is a list of AVR devices currently supported by the library. Note that actual support for some newer devices depends on the ability of the compiler/assembler to support these devices at library compile-time. mega1281 atmega1281 atmega1284 atmega161 atmega162 atmega163 atmega163 atmega164 atmega164 atmega168 atm atmega164p atmega164pa atmega164pa atmega165p atmega3250 atmega3250 atmega3250 atmega325pa atmega325pa atmega325pa atmega325pa atmega3250 atmega3250 atmega3250 atmega325pa at  $atmega3250pa\ atmega328\ atmega$ atmega8515 atmega8535 tinyAVR Devices: attiny4 attiny45 attiny461 attiny461 attiny461 attiny461 attiny461 attiny461 attiny461 attiny461 attiny48 at attiny84a attiny841 attiny85 attiny861 attiny85 attiny861 attiny86 AVR Devices: at90can32 at90can64 at90can128 LCD AVR Devices: atmega169a atmega3290 atmeg at90pwm216 at90pwm216 at90pwm316 at90usb1287 atmega8u2 atmega16u2 atmega32u4 atmega32u4 atmega32u4 atxmega16e5 atxmega16e4 atxmega32u4 atxmega64a4u atxmega64b1 atxmega64b3 atxmega64b3 atxmega64d3 atxmega64d3 atxmega64d3 atxmega128a1 atxmega128a1 atxmega128a3 atxmega128b3 atxmega128d3 atxmega128d4 atxmega128d3 atxmega128d atxmega256a3b atxmega256a3b atxmega256a3b atxmega256c3 at m3000 [4] Classic AVR Devices: at90s1200 [1] at90s2313 at90s2323 at90s2323 at90s2333 at90s2343 at90s2343 at90s4434 at90s4434 at90s4434 at90s4434 at90s4434 at90s4434 at90s434 FAQ for an option. Note: [2] The at94K devices are a combination of FPGA and AVR microcontroller. [TRoth-2002/11/12: Not sure of the level of support for these. More information would be welcomed.] Note: [3] The at76c711 is a USB to fast serial interface bridge chip using an AVR core. Note: [4] The m3000 is a motor controller AVR ASIC from Intelligent Motion Systems (IMS) / Schneider Electric. avr-libc can be freely used and redistributed, provided the following license conditions are met. Portions of avr-libc are Copyright (c) 1999-2016 Werner Boellmann, Dean Camera, Pieter Conradie, Brian Dean, Keith Gudger, Wouter van Gulik, Bjoern Haase, Steinar Haugen, Peter Jansen, Reinhard Jessich, Magnus Johansson, Harald Kipp, Carlos Lamas, Cliff Lawson, Artur Lipowski, Marek Michalkiewicz, Todd C. Miller, Rich Neswold, Colin O'Flynn, Bob Paddock, Andrey Pashchenko, Reiner Patommel, Florin-Viorel Petrov, Alexander Popov, Michael Rickman, Theodore A. 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Together, AVR-binutils, AVR-GCC, and AVR-LibC form the heart of the Free Opensource Software toolchain for the Microchip AVR microcontrollers. AVR-LibC is licensed under a single unified license slike the GPL, yet impose as little restrictions for the use of the library in closed-source commercial applications as possible.

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