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GCC stands for GNU Compiler Collection. The GCC version used with the AVR is named AVR GCC. Refer to the GNU Compiler Collection User Manual for more details. It takes many other tools working together to produce the final executable application for the AVR

**AVR42787: AVR Software User**

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## **Guide - Microchip Technology**

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

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message to the avr-gcc mailing list.

## **avr-libc: AVR Libc**

WinAVR User Manual - 20070122 Eric B.  
Weddington < [email protected] > ...

The avr-gcc list is intended as a forum  
for dicussion about the following: Bugs,  
Programming technique, Installation and  
distributions, Hints and tips, Other avr-

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gcc related stuff. Note that all of the developers of the toolset are subscribed to this list!

## **WinAVR User Manual - 20070122 - Society of Robots**

RAM larger than 64 KiB is not supported by GCC for AVR targets. ... The built-in macros' names follow the scheme

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`__AVR_Device__` where Device is the device name as from the AVR user manual. The difference between Device in the built-in macro and device in `-mmcu=device` is that the latter is always lowercase.

## **AVR Options - Using the GNU Compiler Collection (GCC)**



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AVR GCC Tutorial (WinAVR) Early before alpha Version 1.00 This a Google translation for the famous German Wiki tutorial to be found in [www.mikrocontroller.net](http://www.mikrocontroller.net)

## **AVR GCC Tutorial (WinAVR) - 8051projects.net**

In the AVR-GCC environment, the vector

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table is predefined to point to interrupt routines with predetermined names. By using the appropriate name, your routine will be called when the corresponding interrupt occurs. The device library provides a set of default interrupt routines, which will get used if you don't define your own.

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## **avr-libc: <avr/interrupt.h>: Interrupts**

AVR Libc is a Free Software project whose goal is to provide a high quality C library for use with GCC on Atmel AVR microcontrollers. Together, avr-binutils, avr-gcc, and avr-libc form the heart of the Free Software toolchain for the Atmel AVR microcontrollers.

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## **AVR Libc Home Page - non-GNU**

This macro finds the first (least significant) bit set in the input value.

This macro is very similar to the function `ffs()` except that it evaluates its argument at compile-time, so it should only be applied to compile-time constant expressions where it will reduce to a

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constant itself. Application of this macro to expressions that are not constant at compile-time is not recommended, and might ...

## **avr-libc: <string.h>: Strings**

Using the GNU Compiler Collection For gcc version 4.6.2 (GCC) Richard M. Stallman and the GCC Developer

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Community

## **Using the GNU Compiler Collection**

avr-libc Reference Manual 20020910-cvs  
Generated by Doxygen 1.2.17 Tue Sep  
10 09:24:22 2002

**avr-libc Reference Manual -  
University of Washington**

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AVR binutils and gcc ports in addition to the developers of avr-libc subscribe to the list, so you will usually be able to get your problem resolved. You can subscribe to the

## **avr-libc Reference Manual - unice.fr**

For a more thorough discussion of inline assembly usage, see the gcc user

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manual. The latest version of the gcc manual is always available here:  
<http://gcc.gnu.org> ...

## **Links - - AVR Libc Reference Manual**

AVR Plugin path management

Background. Early versions of the AVR Eclipse Plugin (prior 2.1) relied on the system path of the development system



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to execute the required tools (avr-gcc, avr-size, make etc.) This had some drawbacks.

## **AVR Plugin path management**

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## **avr-libc - Institute of Computer Engineering (E191)**

See the GCC User Manual for more information on Function Attributes. In AVR GCC, a prototype for `main()` is required so you can declare the function attribute to specify that the `main()` function is of type "noreturn". Then,

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define main() as normal. Note that the return type for main() is now void.

Locking Registers

## **avr-libc: Porting From IAR to AVR GCC**

[www.elec.canterbury.ac.nz](http://www.elec.canterbury.ac.nz)

**[www.elec.canterbury.ac.nz](http://www.elec.canterbury.ac.nz)**

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Implementation of interrupts are not explicitly addressed by the C language. It is dependent on the compiler. We are using avr gcc so we will refer to:

Copyright code:  
d41d8cd98f00b204e9800998ecf8427e.

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