AVR000: Register and Bit-Name Definitions

Features

• Registers names
• Bit names
• Instruction set

1 Introduction

The AVR® architecture is described in the AVR datasheets for the individual devices. The functionality of registers and bits are also described herein.

The registers and bit definitions are available in header files included with all assemblers and compilers, and are typically using the same names as used in the datasheet.

The assembler header files distributed with AVR Studio™ include definitions of all register and bit. The header files are found in the folders: C:\Program Files\Atmel\AVR Tools\AvrAssembler2\Appnotes (typical install path). These header files also cover other device specific information such as interrupt vector table and memory boundaries.

The AVR assembler is described in the AVR Studio online help, along with other information about the tool chain.

The AVR instruction set is summarized in the each datasheet. A full description of the AVR instruction set can be found here:
