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## Atmel AT1886: Mixing Assembly and C with AVRGCC

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### 8-bit Atmel Microcontrollers

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#### Features

- Easily mix C and assembly source in *Atmel® Studio 6*
  - C can call assembly routines
  - Assembly can call C functions
- Passes variables and pointers between C and assembly
- Allows C and assembly to share global variables

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#### Introduction

This application note describes how to mix both C and assembly code in an AVRGCC project using *Studio 6* IDE. This application note is written from the perspective that C is the language of choice and assembly language is included in situations where it is either necessary or convenient.

*Studio 6* (and previous versions) will allow you to work with both assembly language and C files in the same project. The question is how does the software engineer organize the assembly code and C code? How are parameters, variables, and similar passed between the assembly code and the C code?

# Application Note Atmel

**M Woodhall**



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