

It's actually quite easy! As you can see in the example below, just enclose the ASM part with `__asm` and `__endasm`;

You might have to declare some additional variables, but the concept is quite straightforward.

```
unsigned char Scale_7bit(unsigned char evt2, unsigned char min, unsigned
char max)
{
    // scaled value is (<8-bit random> * ) >> 8
    PRODL = evt2 << 1; // 8bit value
    PRODH = max-min+1; // range
__asm
    movf _PRODL, W
    mulwf _PRODH, 0
__endasm;

    return min + PRODH;
}
```

Also, as well as the above example of 'inline ASM', it is possible to include ASM code in .inc include files, and call that ASM code from within your C application. Please see the forum thread [using assembler in C - question about \\_ in front of macro names](#) for more info.

From:

<https://midibox.org/dokuwiki/> - **MIDIbox**

Permanent link:

[https://midibox.org/dokuwiki/doku.php?id=how\\_to\\_mix\\_c\\_and\\_asm&rev=1175914038](https://midibox.org/dokuwiki/doku.php?id=how_to_mix_c_and_asm&rev=1175914038)

Last update: **2008/09/10 17:31**

