

## Difference in Specification and Function of *CC907* and *FCC907S*

### 1. Preface

This document describes the difference in the specification and function of *CC907* (optimization C compiler for FFMC16 family) and *FCC907S* (Softune C compiler for FFMC16 family).

### 2. Difference in Default Section Names Output by Compilers

As shown in **Table 2-1**, there is a difference in the default section names output by *CC907* and *FCC907S*.

Consequently, the default section name specified for the `-s` option and `#pragma section` must be changed.

**Table 2-1 Correspondence between Default Section Names Output by Two Compilers**

Type	fcc907s		cc907		
	Section name	Attribute	Section name	Attribute	Additional
Code	CODE	CODE	DSEG	CSEG	ROM
Data with initial value	INIT	DATA	DINIT	DSEG	
Initial value area	DCONST	CONST	DCONST	DSEG	ROM
Data without initial value	DATA	DATA	DVAR	DSEG	
<b>const</b> data	CONST	CONST	CCONST	DSEG	ROM
Mirror area	CINIT	DATA	CINIT	DATA	
FAR code	CODE_MODN	CODE	MODN_CSEG	CSEG	ROM
FAR data with initial value	INIT_MODN	DATA	MODN_DINT	DSEG	
Initial value area	DCONST_MODN	CONST	MODN_DCONST	DSEG	ROM
FAR data without initial value	DATA_MODN	DATA	MODN_DVAR	DSEG	
<b>const</b> FAR data	CONST_MODN	CONST	MODN_CCONST	DSEG	ROM
Mirror area	CINIT_MODN	DATA	MODN_CINIT	DSEG	
DIRECT data with initial value	DIRINIT	DIR	DIRINT	DSEG	
Initial value area	DIRCONST	DIRCONST	DIRCONST	DSEG	ROM
DIRECT data without initial value	DIRDATA	DIR	DIRVAR	DSEG	

*(Continue)*

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Vector table	INTVECT	CONST	INTVEC	DSEG	ROM
I/O area	IO	IO	IOVAR	IOSEG	
DTRANS	DTRANS	CONST	DTRANS	DSEG	ROM
DCLEAR	DCLEAR	CONST	DCLEAR	DSEG	ROM

Note: MODN in the above table means module names generated from source file names.

### 3. Difference in Command Options

The following options used in **CC907** are deleted from **FCC907S** because the equivalent functions are supported by **#pragma**.

Option		Corresponding functions of #pragma
-except		#pragma except / #pragma noexcept
-ilm [0-7]		#pragma ilm(NUM) / #pragma noilm
-regbank [0-31]		#pragma register(NUM) / #pragma noregister
-ssb		#pragma ssb / #pragma nossb

Note: The above options are secret options to preserve backward compatibility.