

1.Target product

F²MC-16FX MB96600 series

2.Condition

It is an object of this specification when corresponding to all the following conditions.

【Condition】 (All memory models)

- A start-up routine(startup.asm) of SOFTUNE is used.
- The sample I/O register files of SOFTUNE is used.
(The register of extended I/O area is defined by the FAR declaration.)

3.Details

In CPU information file and the I/O register file for the F²MC-16FX MB96600 series, the I/O area is defined as follows.

Address	Section definition
00:0000H ~ 00:00EFH	I/O area (I/O section)
00:0100H ~ 00:017FH	Extend I/O area (DATA section)
00:0380H ~ 00:0BFFH	Extend I/O area (DATA section)
0E:9000H ~ 0F:BFFFH	Extend I/O area (DATA section)

All registers of extended I/O area are defined by the FAR declaration.

Therefore, the DATA section is generated to the FAR area and the DCLEAR section is output as a mechanism to initialize it easily.

In a start-up routine, the DATA section in the FAR area of each file is initialized by “00” referring to the table of the DCLEAR section.

However, to output extended I/O area as DATA section, it is initialized by “00”.

This initialization can be controlled by option (-Xinittbl) of the C compiler.

(When initializing it by the DCLEAR processing in a start-up routine, please make the order of linking start-up routines a head. When a start-up routine is not specified for the head, it is not correctly initialized.)

4.About initialization (“00”) control in extended I/O area

When you specify the following option for the “_ffmc16.c” file, initialization (“00H”) in extended I/O area can be controlled.

C compiler command option : -Xinittbl

(The table to initialize the _far data area is not generated.)

Please refer to the attached paper for the method of setting C compiler option.

[Example : Sample I/O register files option “-Xinittbl” setting for MB96600 series]

Please refer to the following for the method of setting C compiler option of the MB96600 series.

0 clear processing operation in extended I/O area can be controlled by this setting.

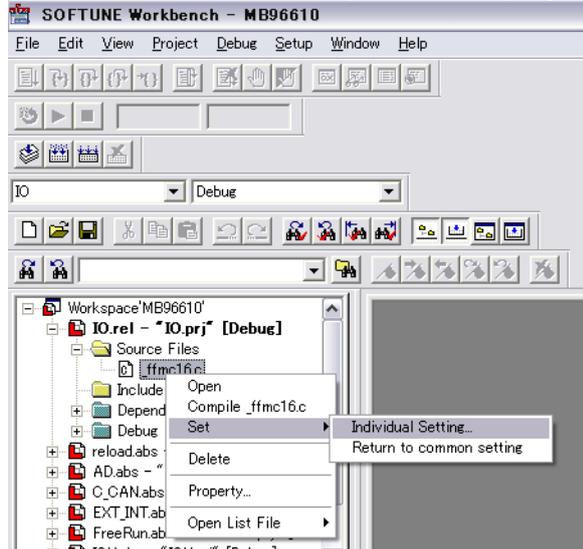
Please specify "- Xinittbl" option when you use sample I/O register file.

("- Xinittbl" : The table to initialize the __far data area is not generated.)

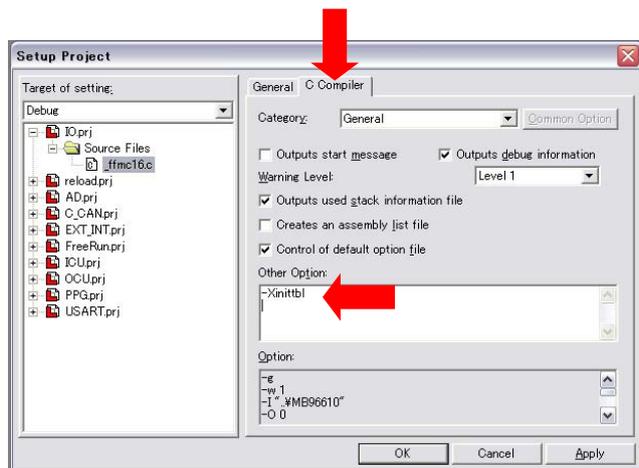
File that sets option	_ffmc16.c
C compiler command option	-Xinittbl

Workbench setting

1. Select the following “_ffmc16.c” files.
2. "Set" => "Individual Setting" is selected by right-clicking.



3. Select C Compiler tag.
4. Add "- Xinittbl" to "Other Option" column. And, push “OK”.



The display of the project window is as follows.

