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Tutorial how to create a new EBS08 project

for Metrowerks Codewarrier 5.0

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Preface

This tutorial explains how to create a new EBS08 project with CW 5.0 (Metrowerks Codewarrior 5.0). The new project will be prepared for absolute assembly. This approach is easy to understand, so beginners do not have to handle segments and prn files.

What you need

You have to install the CW 5.0 software. Download the package from Metrowerks <http://www.metrowerks.com>.

I also would suggest a tool like the TotalCommander from www.ghisler.ch for easy management of the files.

First steps

a) Preparing

If you do not have installed the Metrowerks environment for HC(S)08 microcontrollers it is time to download and install it!

If you do not have downloaded any template for the EBS08 do it now and unzip the files. They will be placed in the following directory "c:\hc08\projects\EBS08_ *MICROTYPE*_50" where *MICROTYPE* is the microcontroller you have chosen.

b) Creating a new project

Open CodeWarrior IDE

Close the Assistant because this way you will learn how to create a new project by yourself.

Select **File** then

New Project

unselect the **C** option and select the **Assembly** option

In the **Location** line set now the path like "c:\hc08\projects"

and as project name write in the **Project name** line "**MY_PROJECT**" where you may chose a different name for *MY_PROJECT*.

then klick on **Next** (Avanti or whatever).

Now we have to chose the micro controller (the type of the controller has to correspond with the EBS08 you have chosen).

First select the family then the type. We chose here as an example the **MC9S08GB60** of **HCS08** family:

click on **HCS08** then **HCS08G Family** then select the **MC9S08GB60** micro.

click on **Finish** (Fine or similar)

The new project will be created now.

c) Preparing the “MY_PROJECT” project

Open the desktop (or Total Commander) and copy all the files found in the folder

c:\hc08\projects\EBS08_XXX_50\sources (where XXX is for the EBS08 chosen)

to

c:\hc08\projects\“MY_PROJECT”\sources

allowing the overwriting of the file main.asm.

Click right on the Sources folder and then click on **Add Files**.

You have to select all the files *.mmw in the Source folder.

Confirm with **Open**.

Now your project is ready. Click on the green bug (elsewhere) to check if it is OK. If so the Full Chip Simulator will open and you can play with the EBS08.

I.e. set a breakpoint to the **T_EX** label (in the Source window of the Simulator) by right clicking on the line below the label, then click on **Set Breakpoint**. Now start the simulator (green arrow) and it stops at these line after a while. Every click on the green arrow starts the simulator again, so you can see the Z_CORE counter (in the Data window) incrementing as well as the CORE_F (the core flags) changing.

Good luck

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