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IAR EWARM Workbench Project Templates

John Mangino   *Catalog TMS470*

ABSTRACT

The template dialog box in the IAR tool quickly creates a project with a default configuration for RAM and flash modes. Creating a new project includes a main program shell, low-level init file for the specified device, and appropriate linker files, sets up the custom build for the High-End Timer (HET), and sets all project parameters for immediate compiling and loading of code. These files are TMS470 specific and are an addition to the default files provided by IAR.

Contents

1   Introduction

The TMS470 template allows quicker project creation and lessens the learning curve for using the IAR tool with the TMS470 devices. There is a separate template for each device containing the necessary files for device programming and debugging.
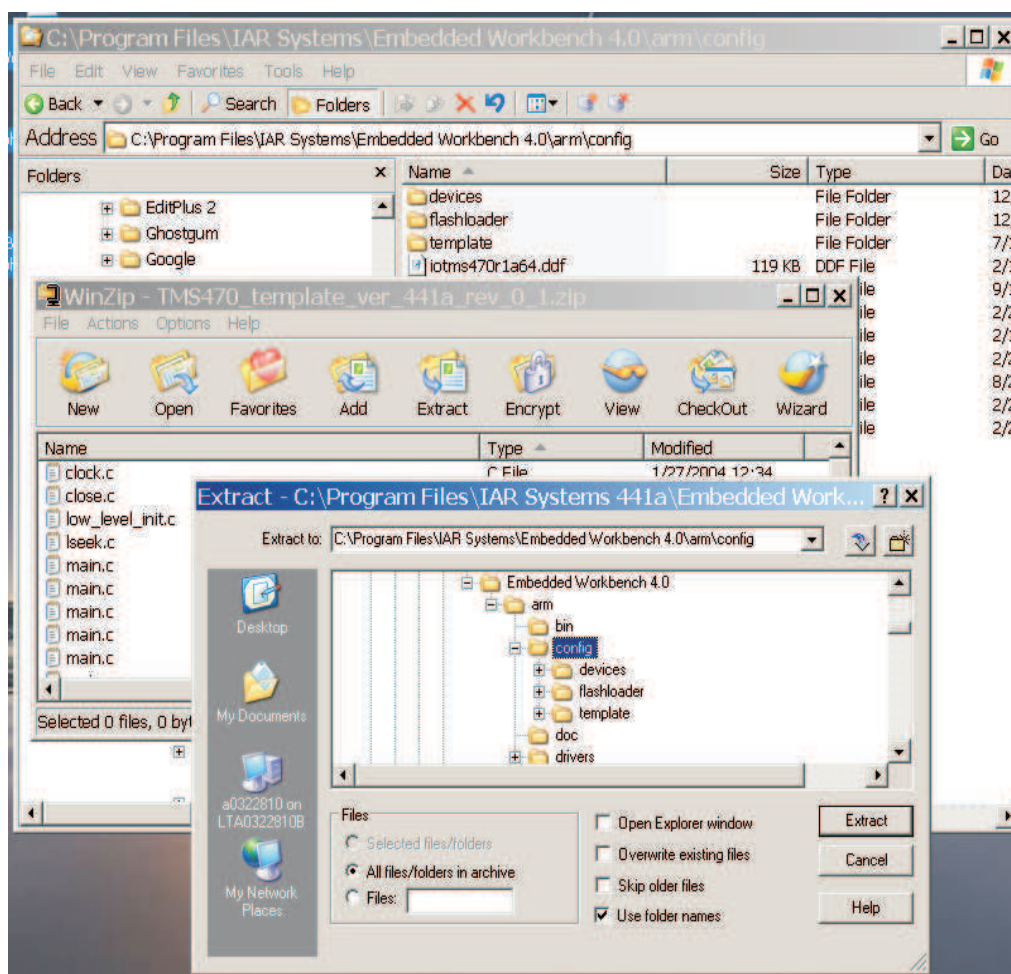
2   Installing the Templates

The templates are contained in a zip file and must be extracted into the template directory of the IAR tool.

1. Locate the IAR template directory. The default installation directory is "C:\ProgramFiles\IAR Systems\Embedded Workbench 4.0\ARM\config".

> **Note:**   Replace the current version of the embedded workbench; 4.0 above is just an example.

2. Extract the template zip file into the template directory. You will set the extraction path to the "config" directory as shown in the following figure. When prompted with the message "Would you like to replace the existing file", answer "Yes to All". If you are not prompted with this message, verify the extraction directory.
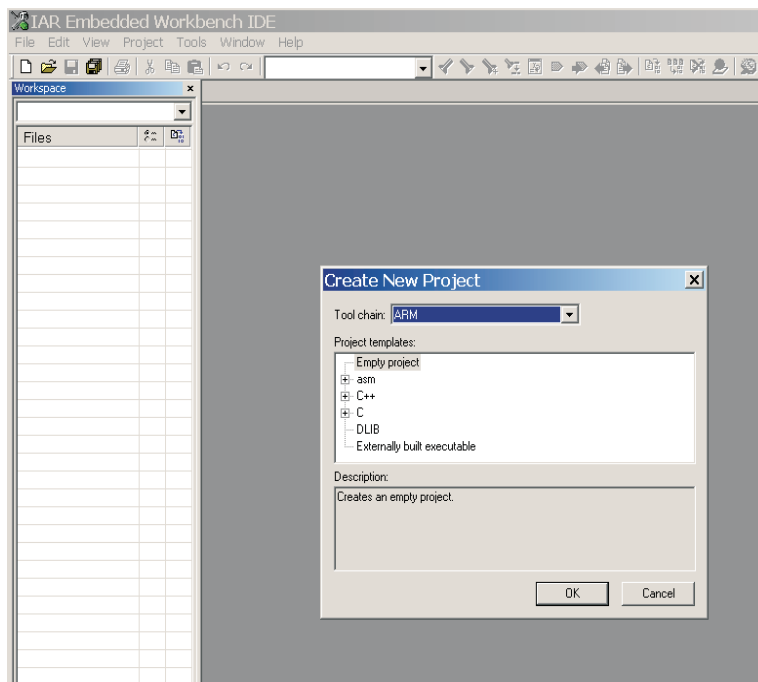
3 Using the Templates
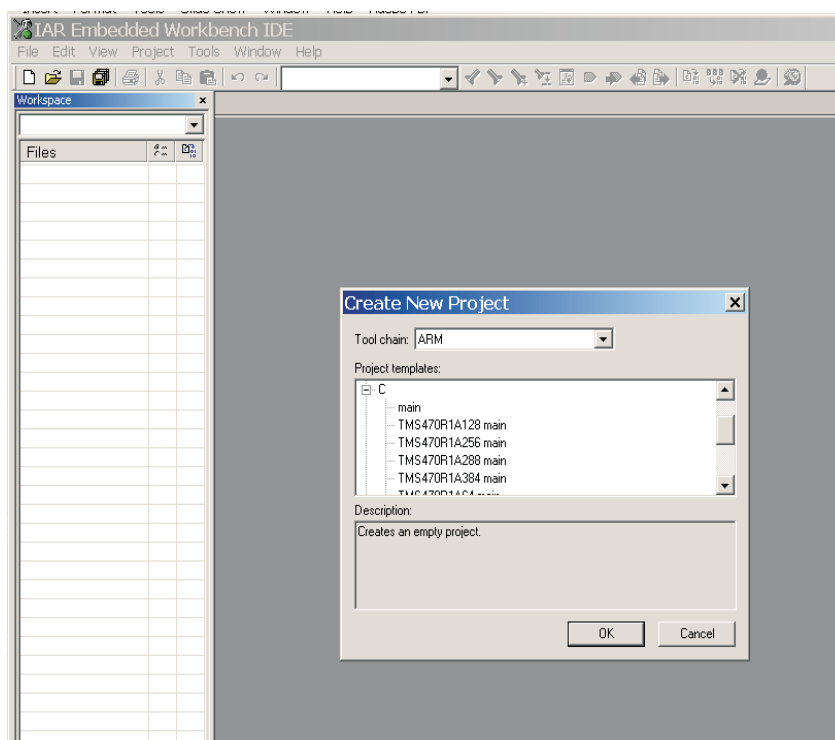
To create a new project:

1. Start the IAR workbench.
2. Click Project > Create New Project, as shown in the following figure.
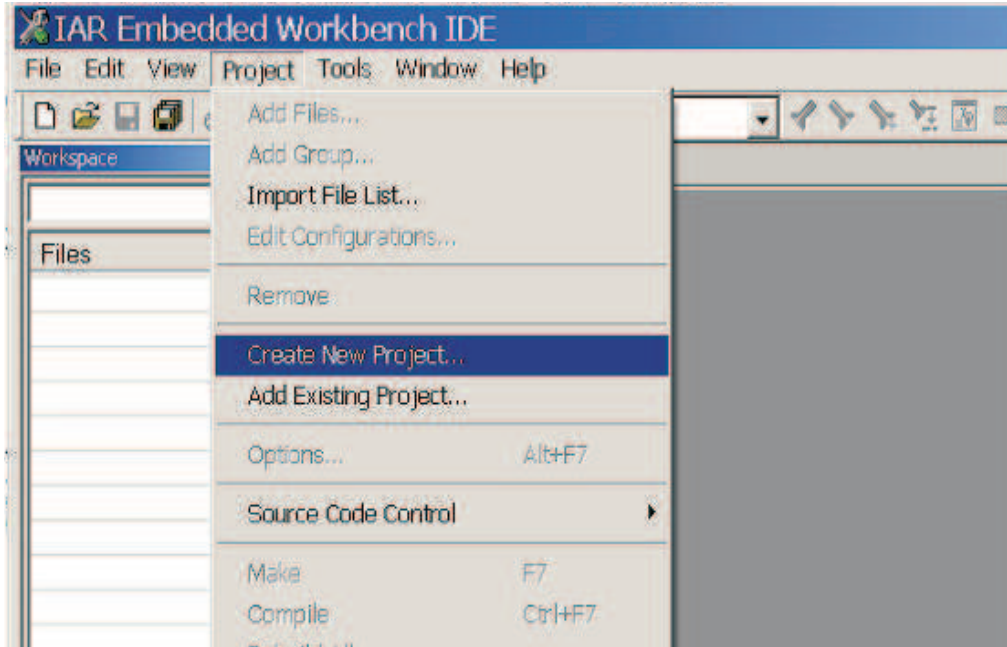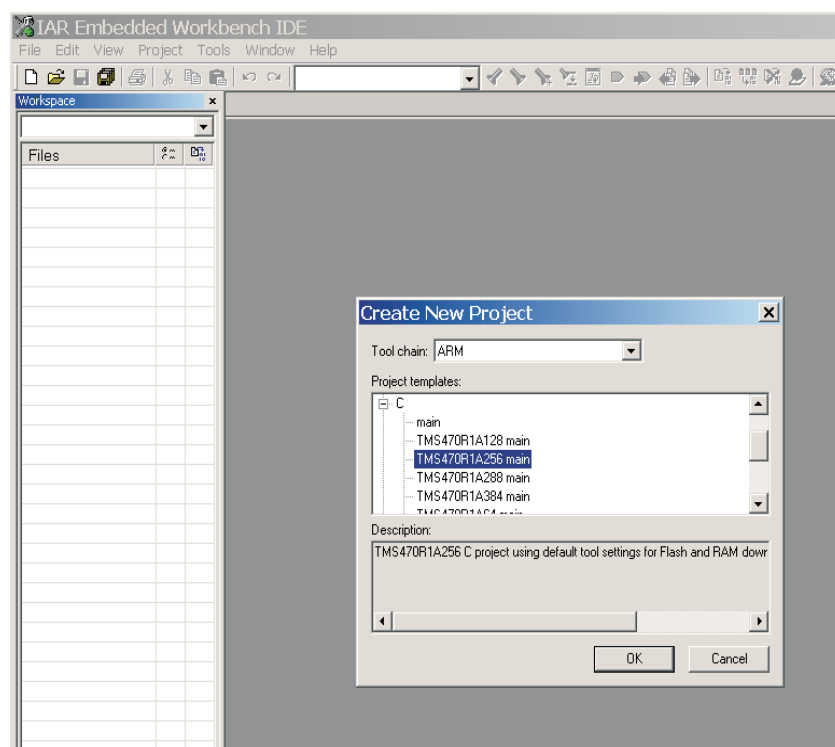

3. In the Create New Project dialog box (shown in the following figure), expand the C project templates list by clicking on the plus sign (+) to the left of "C".
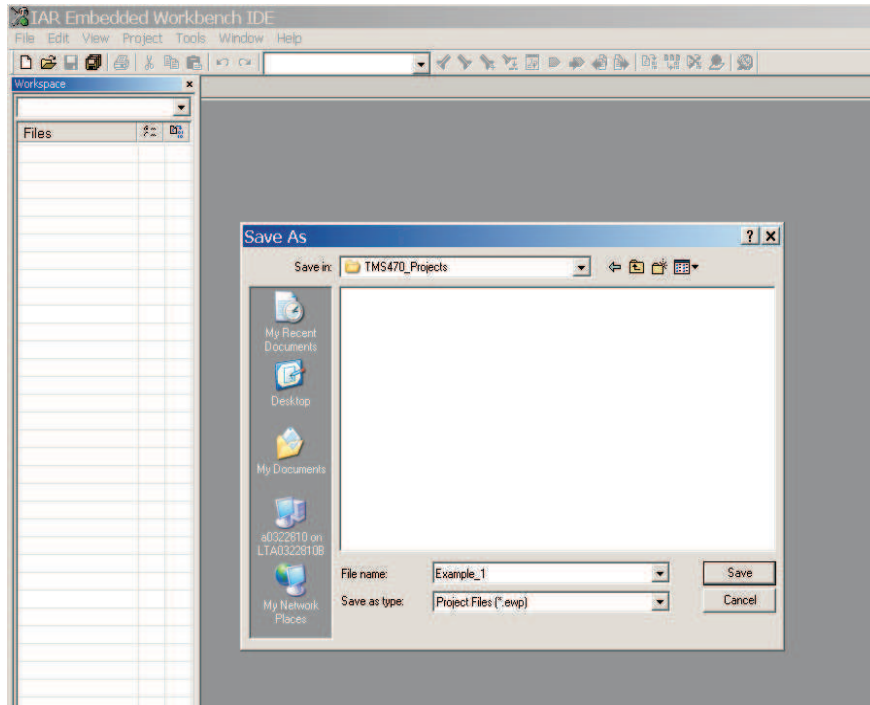
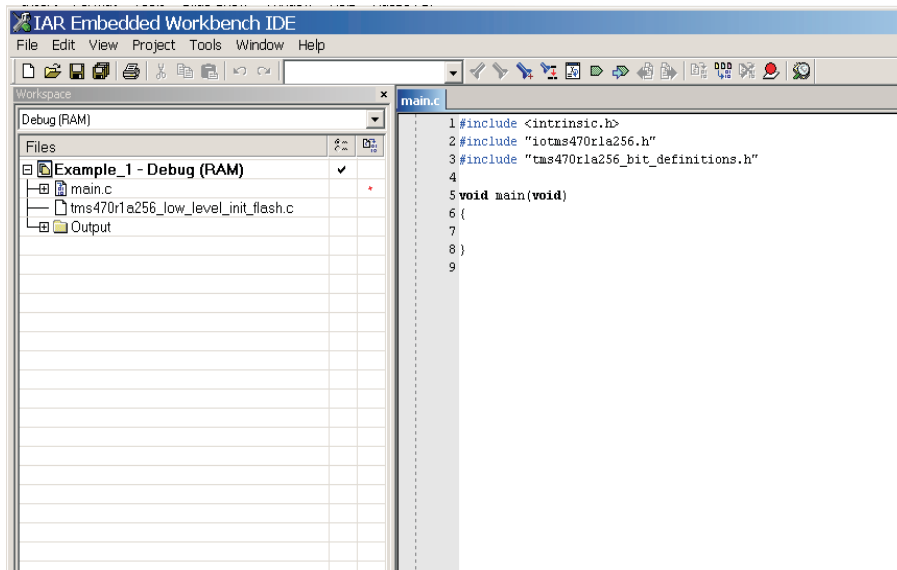4. As shown in the following figure, the device-specific templates are listed.

5. Select the specific TMS470 device that is being used.

6. Create the project directory and name the project using the following dialog box.

7. After the new project is created, the IAR workbench will be similar to the following figure.

8. The project is ready to begin coding.

4   Notes and Tips

Every time a new project is started, the main.c and LowLevelInit.c files are overwritten. To prevent losing work saved in these files, change the name of the main file (for example, change it to example_01_main.c).

If you previously created a main.c file, remove the new main.c that was created by the new project and replace it with the previously saved file.

If the default linker file is going to be modified, save a copy of the default linker file to the local directory before modifying it.

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Mailing Address: Texas Instruments
Post Office Box 655303 Dallas, Texas 75265