EXAMPLE NAME: UART_EXAMPLE_XMC45

OVERVIEW: This example demonstrates the transmission and reception of messages from XMC4500 to the PC through UART interface.

DESCRIPTION:

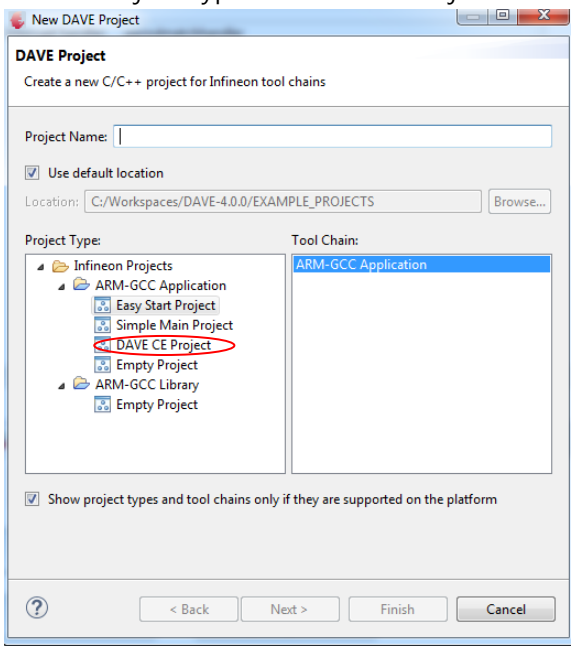
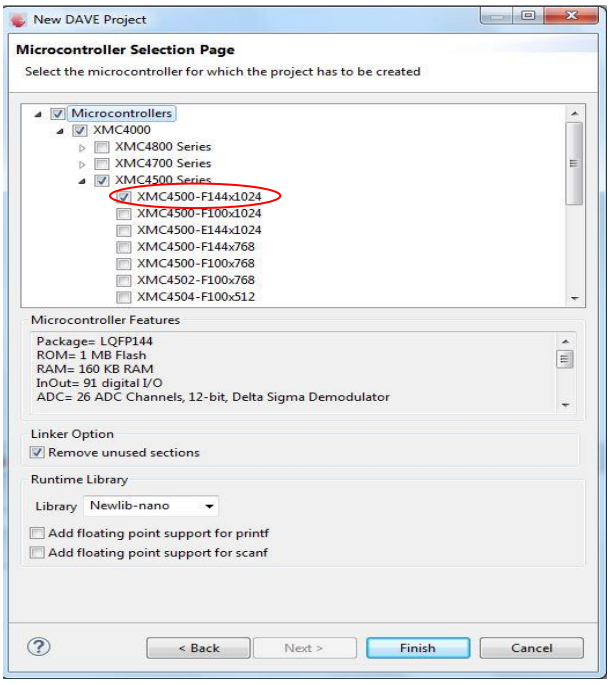
- UART APP Configures the USIC peripheral to send and receive messages to/from the PC using the UART Protocol. The example uses the transmit and receive pins connected to the on board debugger and its VCOM port in the host side.

REQUIRMENTS:

Boards Required: XMC4500 CPU Board

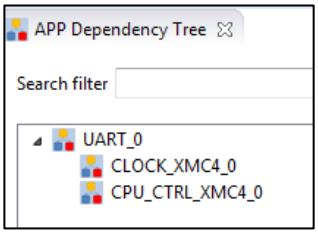
HOW TO CREATE THE PROJECT:

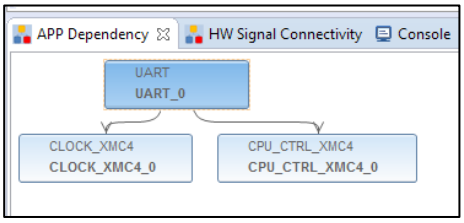
1. Open the DAVE CE and use  "Add IDE New Project Wizard" on the toolbar to add a new DAVE Project.

Enter Project Name Select "Project Type ➔ DAVE CE Project"	Select Microcontroller ➔XMC4500 Series ➔ XMC4500-F144X1024
	

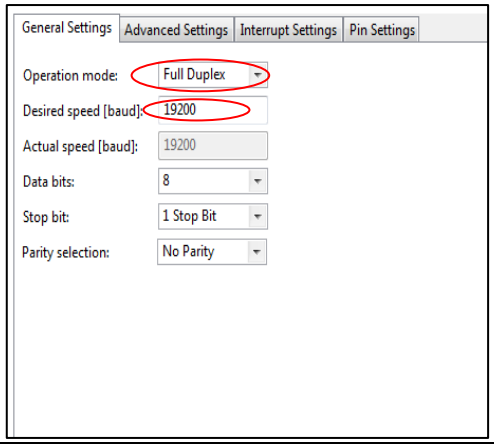
2. Use the "Add New APP" in the toolbar to add 1 instance of UART. Configure the APP instance with the following configurations.

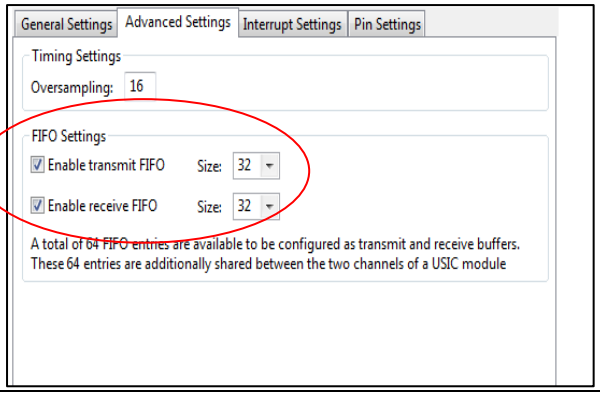
Views: APP Dependency Tree and APP Dependency



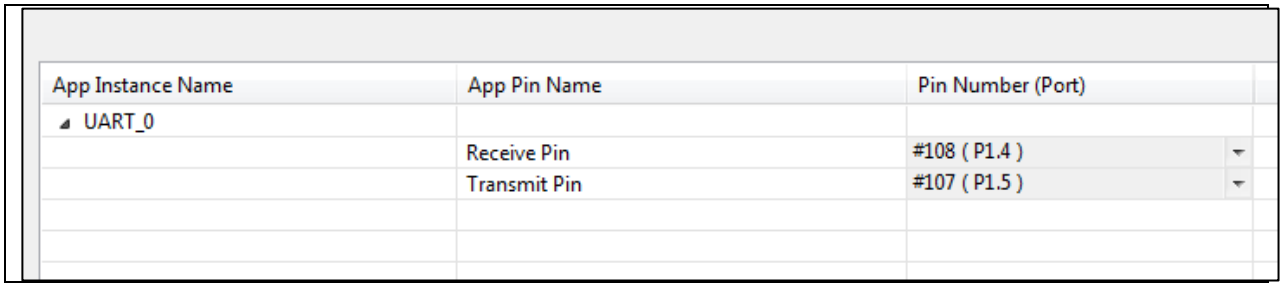


UART:





3. Use the "Manual Pin Allocator" found in the toolbar, configure the pins for the UART.

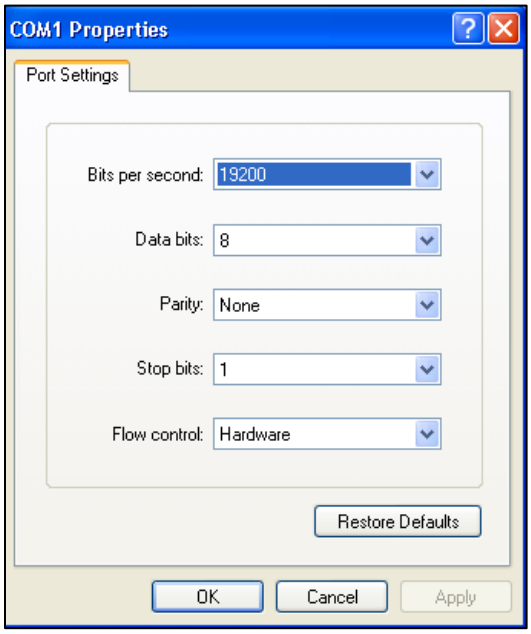


4. Generate the code for the configurations made and change main.c accordingly.

5. Build and download to the microcontroller.

HOW TO TEST:

Look for the Jlink CDC UART Port number in the Device Manager of Windows ™
Start your favourite terminal tool on the PC with these settings for your respective COM port number:



Download and run the demo using the CPU_45A-V3 board. If everything is well configured, you will see "Press enter if you want to receive a message" in the terminal tool. Whenever you press “Enter”, "Hello world!" will be displayed in the terminal tool.