Create a "Board Support Package Project" "standalone_bsp_0"
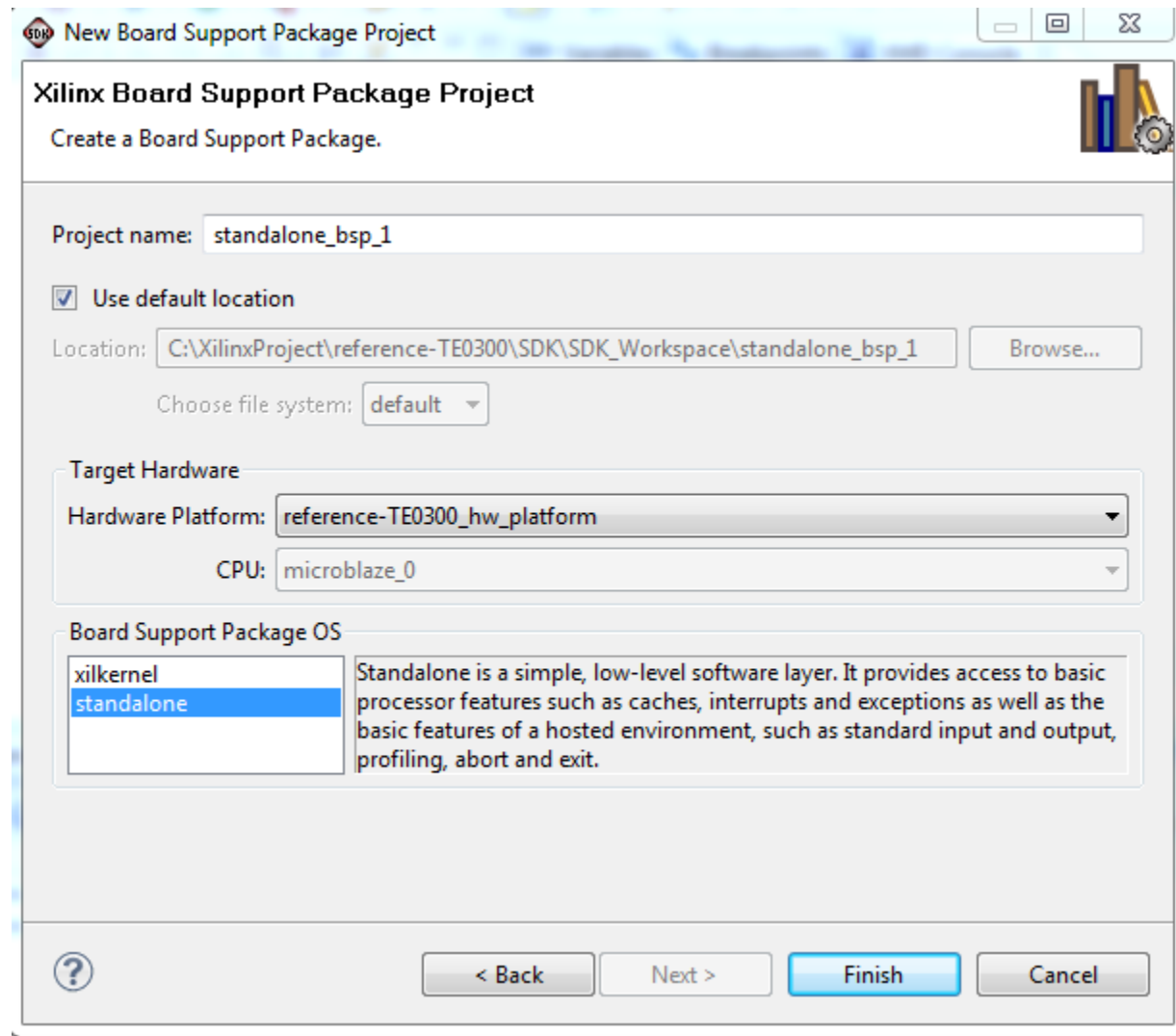
You should click "File" >"New" > "Project".

A pop up "New Project" will appear.

Click"Xilinx">"Board Support Package", then next.

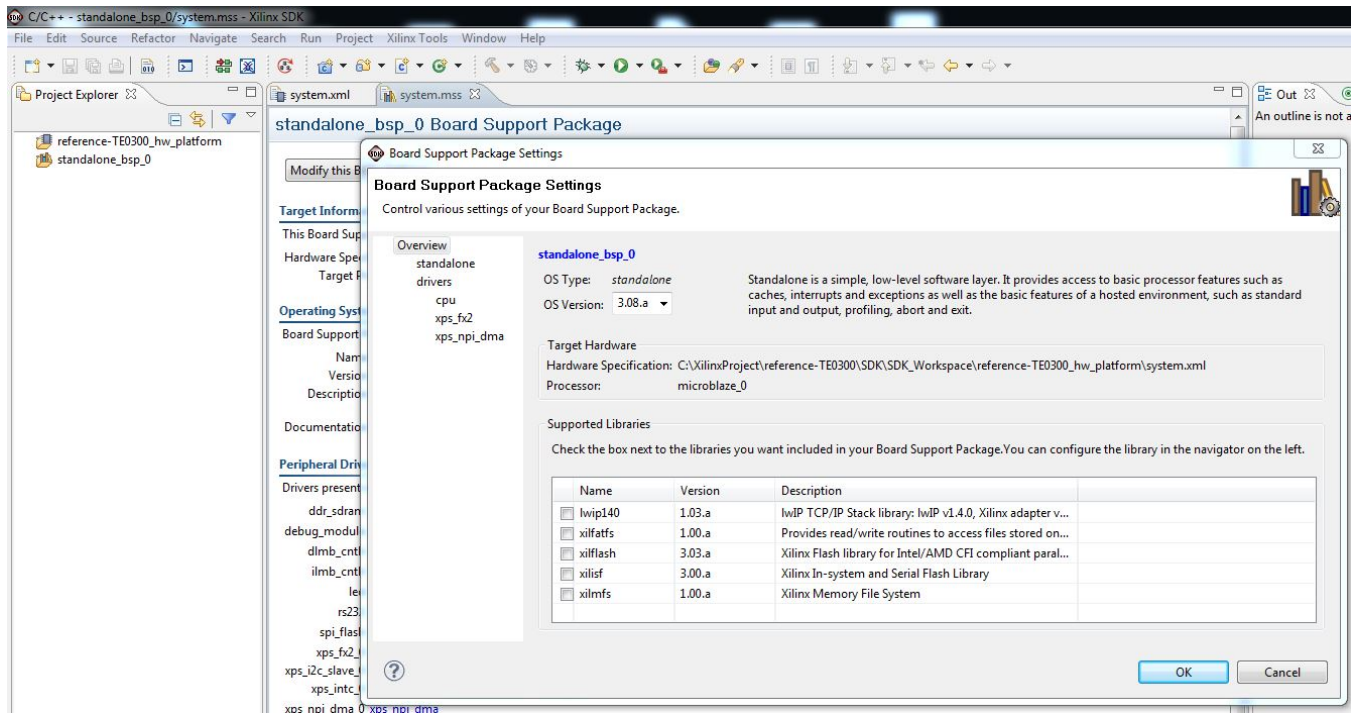A new pop up "New Board Support Package Project" will appear.

New Xilinx Board Support Packages

Select "standalone" for "Board Support Package OS" and "standalone_bsp_0" for the "Project name".

A new pop-up will appear "Board Support Package Settings".

BSP overview

After this, you should click "standalone" and set "stdin" and "stdout" to "rs232" or "debug_module":

1. you should select "rs232" if you desire to use a real UART (and not a simulated UART though JTAG connection);
2. you should select "debug_module" if you desire that the XMD_UART works as local UART through the JTAG connection.

✓ Demo program (running on MicroBlaze) will work even in case the UART port is left unconnected: it is not necessary to use a USB/Uart converter or Uart port on a PC, if you are using XMD UART HDL block.
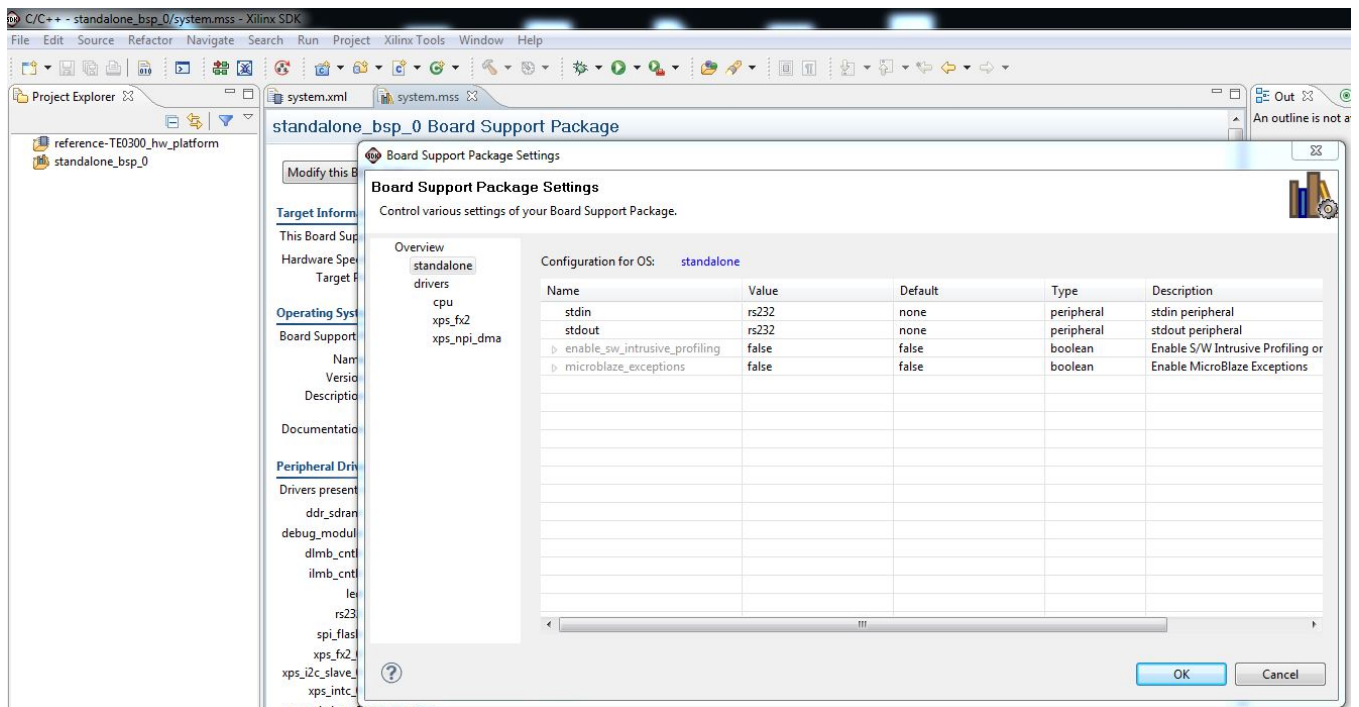
BSP rs232 or debug_module

After this, you should click drivers to verify that all Microblaze components are supported by the driver in the repository "C:\XilinxProject\TE-EDK-IP"; click "OK" and the pop-up should dissapear.
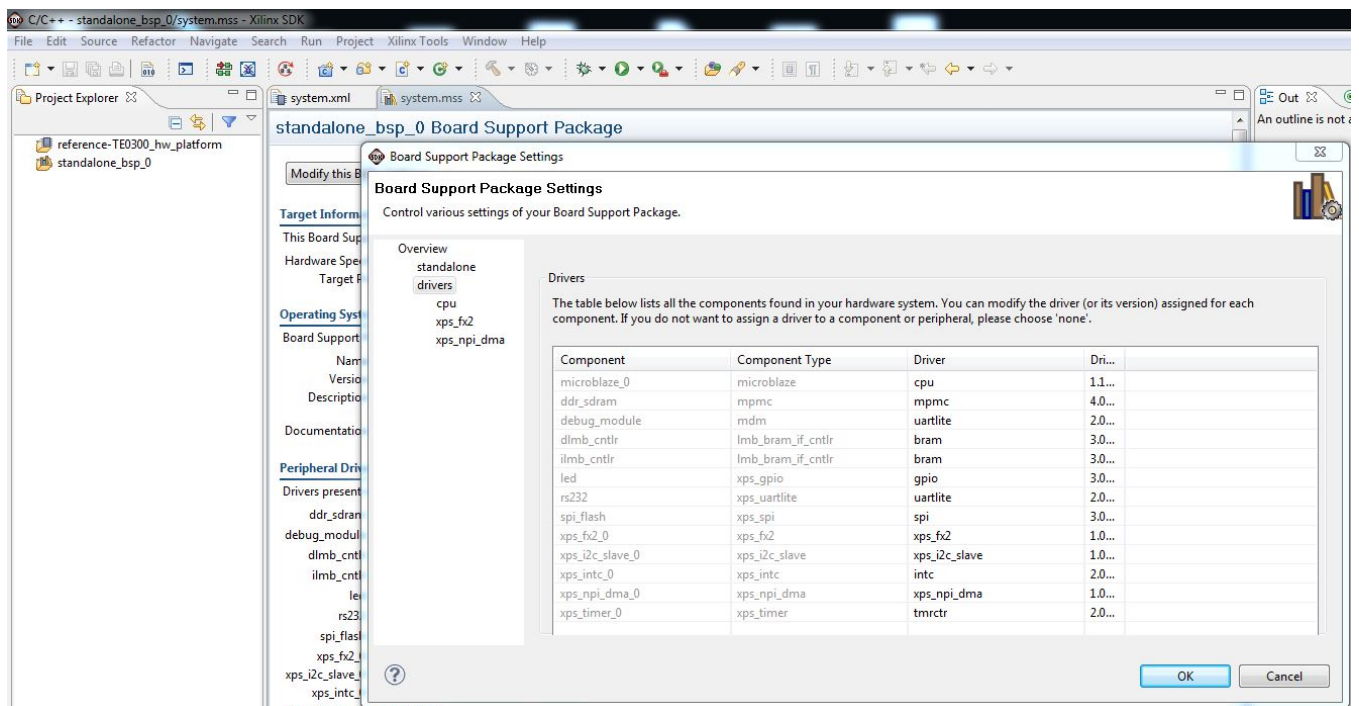
BSP drivers for Microblaze components

In particular you should also verify that "xmdstub_peripheral" is assigned to none if you desire to use debug_module instead of rs232.
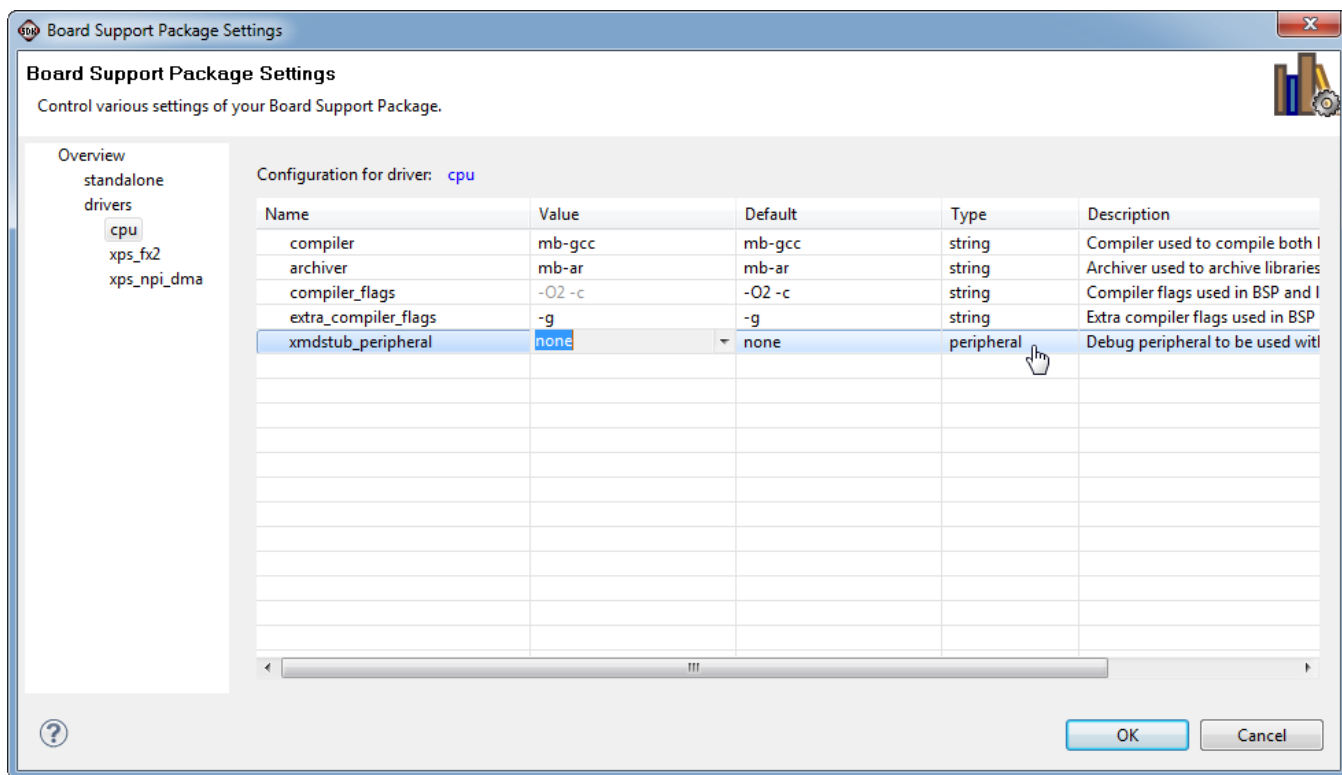
xmdstub_peripheral assigned to none

After this, you have verified that all Microblaze components are supported by a driver, right click the "standalone_bsp_0" folder in "Project Explorer".

The pop-up "Properties for standalone_bsp_0" should appear.

Click "Project References".

You should verify that "standalone_bsp_0" references to "reference-TE0300_hw_platform":if is not checked you must check the box.
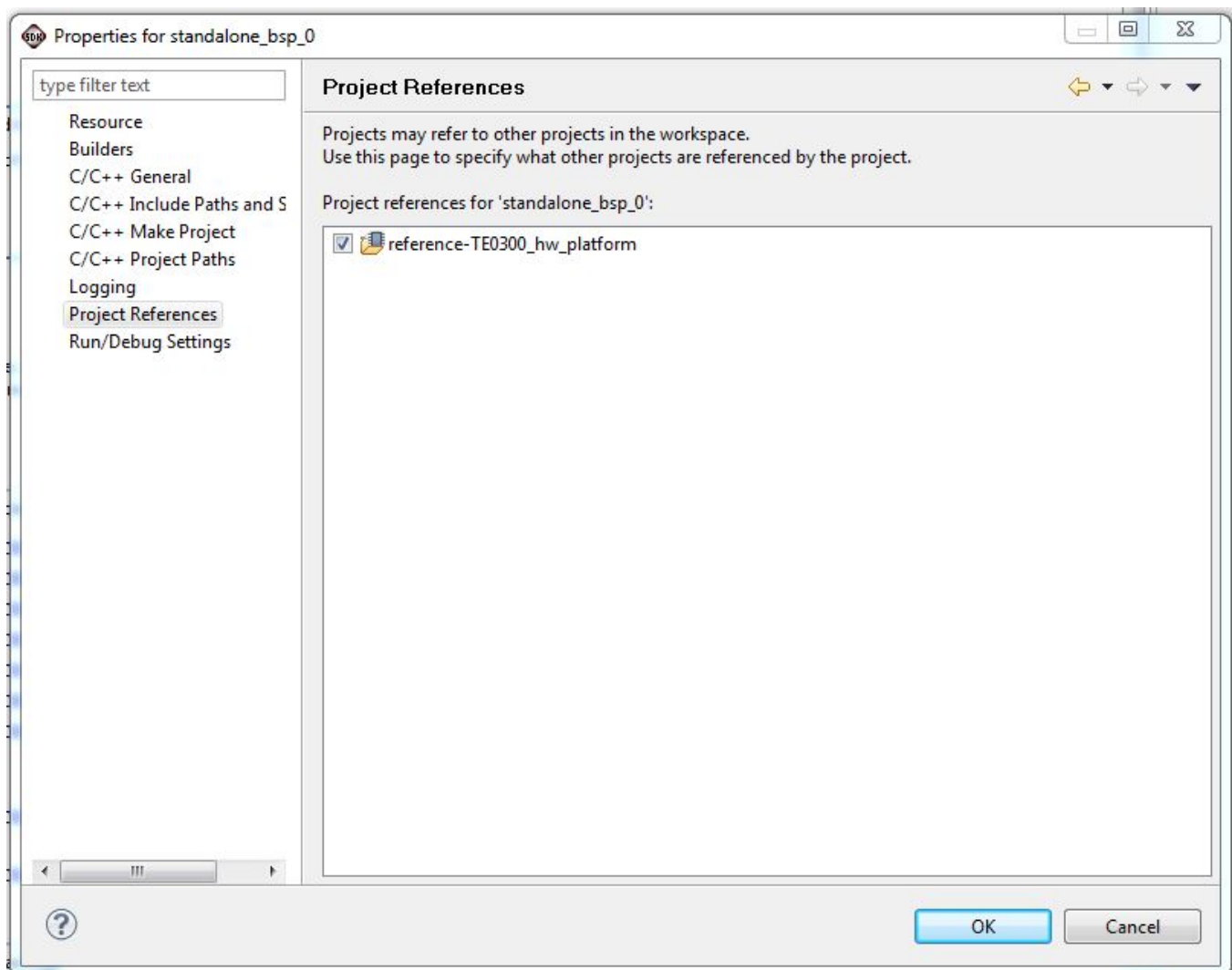
"standalone_bsp_0" Project References

Click "OK";

After this, you should wait until the SDK compile the added files (C-Build [standalone_bsp_0]) and a message 'Finished building libraries' appears.

File Edit Source Refactor Navigate Search Run Project Xilinx Tools Window Help

Project Explorer ⊠

- reference-TE0300_hw_platform
- standalone_bsp_0

system.xml   system.mss ⊠

standalone_bsp_0 Board Support Package

Modify this BSP's Settings

Target Information

This Board Support Package is compiled to run on the following target.

Hardware Specification: C:\XilinxProject\reference-TE0300\SDK\SDK_Workspace\reference-TE0300_hw_platform\system.xml
        Target Processor: microblaze_0

Operating System

Board Support Package OS.

        Name: standalone
     Version: 3.08.a
 Description: Standalone is a simple, low-level software layer. It provides access to basic processor features such as caches, interrupts and exceptions as well as the basic
                features of a hosted environment, such as standard input and output, profiling, abort and exit.
Documentation: standalone_v3_08_a

Peripheral Drivers

Drivers present in the Board Support Package.

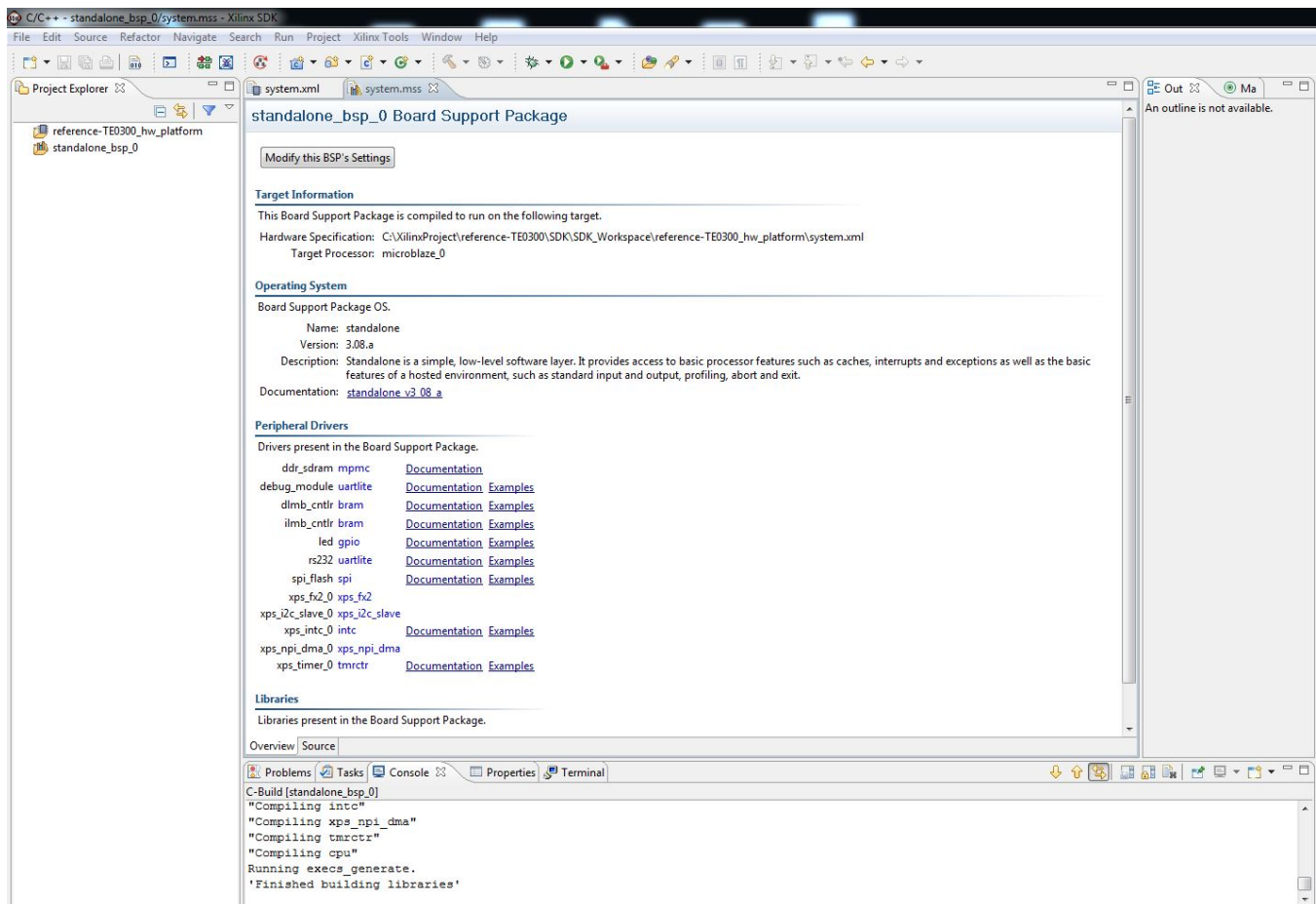|			
ddr_sdram	mpmc	Documentation	
debug_module	uartlite	Documentation	Examples
dlmb_cntlr	bram	Documentation	Examples
ilmb_cntlr	bram	Documentation	Examples
led	gpio	Documentation	Examples
rs232	uartlite	Documentation	Examples
spi_flash	spi	Documentation	Examples
xps_fx2_0	xps_fx2		
xps_i2c_slave_0	xps_i2c_slave		
xps_intc_0	intc	Documentation	Examples
xps_npi_dma_0	xps_npi_dma		
xps_timer_0	tmrctr	Documentation	Examples

Libraries

Libraries present in the Board Support Package.

Overview Source

Out ⊠   Ma

An outline is not available.

Problems Tasks Console ⊠ Properties Terminal

C-Build [standalone_bsp_0]
```
"Compiling intc"
"Compiling xps_npi_dma"
"Compiling tmrctr"
"Compiling cpu"
Running execs_generate.
'Finished building libraries'
```

'Finished building libraries' appears