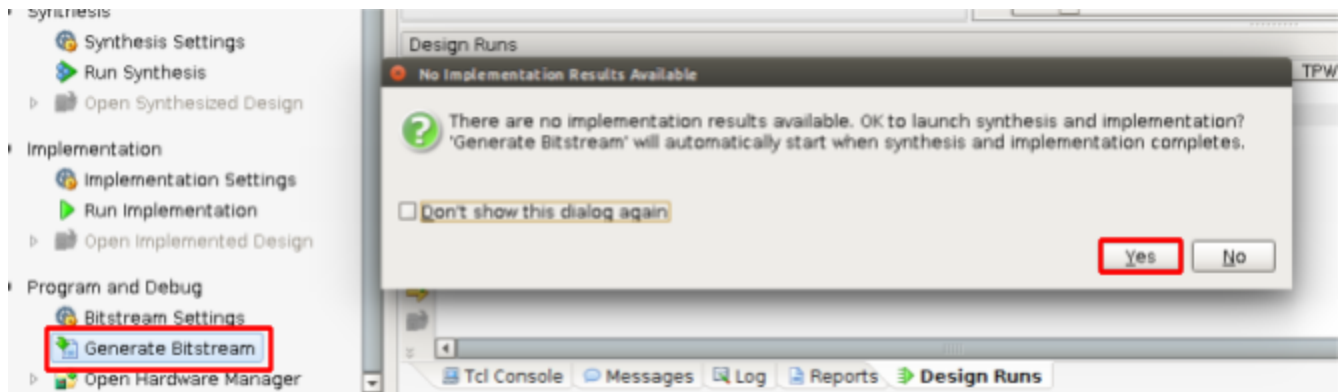


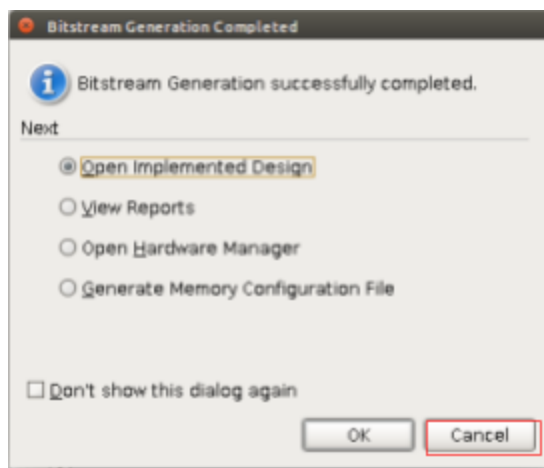
# Program FPGA

This guide demonstrates how to program the “Zynqberry” TE0726\_M. Before you start with this guide you should have created a project and written an application. Since the Zynqberry board only have a clock that is dedicated to the processor we need to start the processor in order to generate a clock signal for the logic circuit. You will therefore need to have Xilinx SDK installed on your computer in order to have a clock controlled process running in your logic.

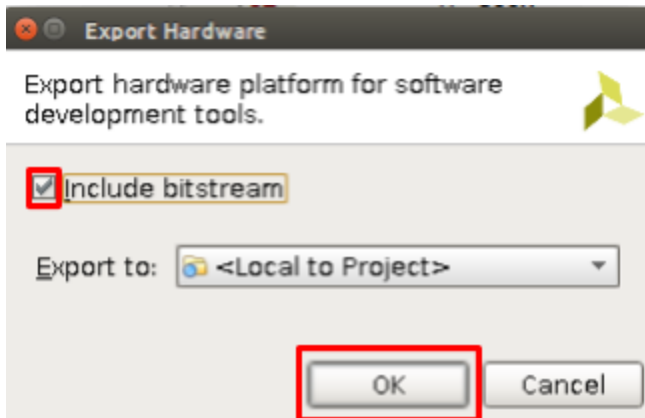
- 1) In the “Flow Navigator panel” under “Program and Debug” click “Generate Bitstream” and “Yes” in the window that pops up. Vivado will then generate the bit file if you don’t have any errors in you project.



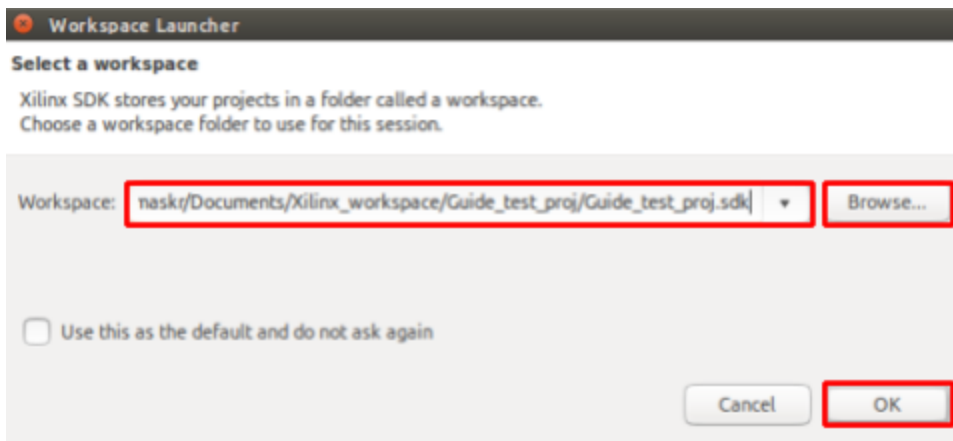
- 2) Click “Cancel” to the window that pops up when your file has been generated



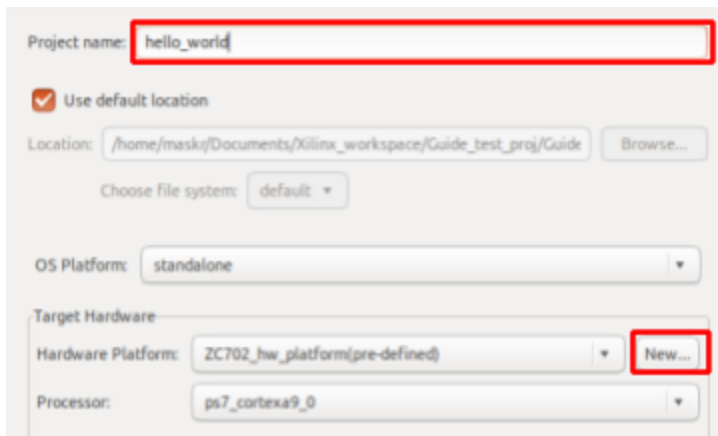
- 3) Click “File->Export->Export Hardware...” and mark the check mark “Include bitstream” and click “OK” on the window that pops up



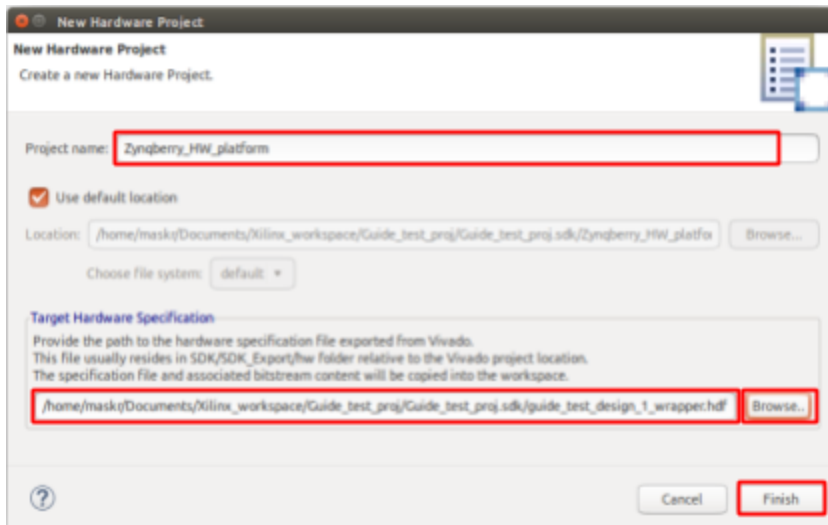
- 4) Close Vivado and open the program “xsdk”, click “Browse” and find your “Vivado” project and select the folder that ends with .sdk and click “OK”



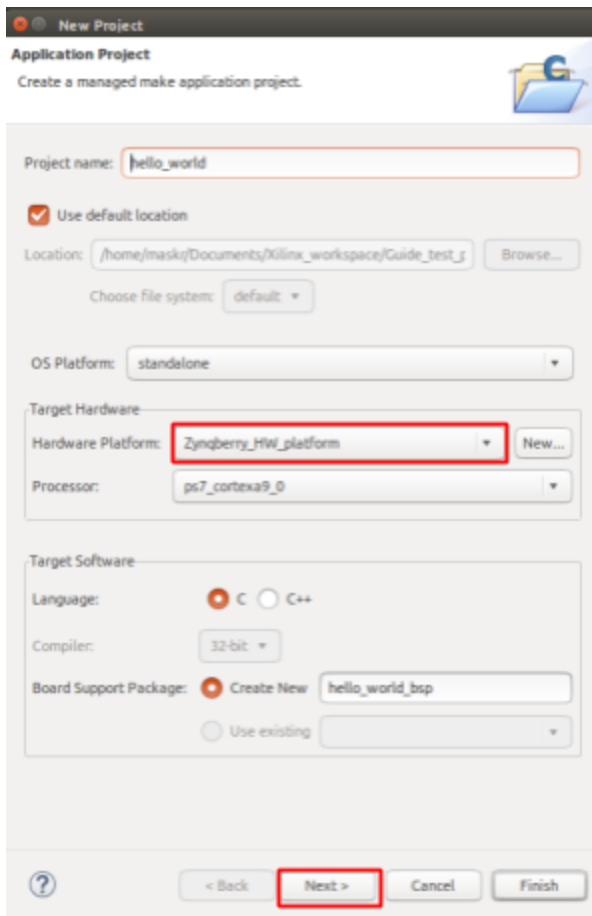
- 5) In “SDK” click “File->New->Application Project”. Write a project name and under “Hardware Platform” click on “new...”



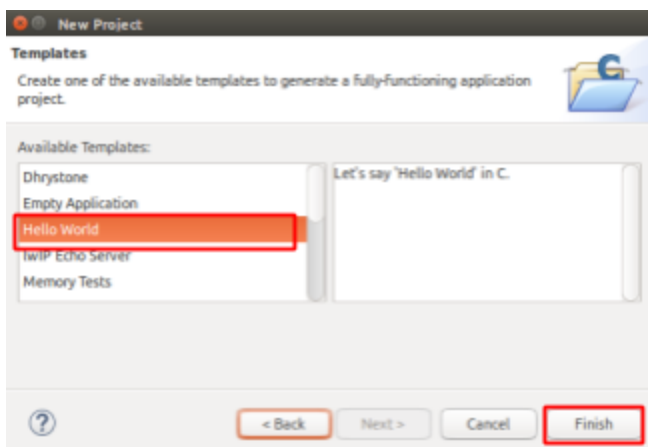
- 6) Give your new hardware platform a name and find the “.hdf” file in the .sdk directory for the “Target Hardware Specifications” followed by “Finish”



- 7) In the “New Project” window select your new hardware platform and click “Next”



8) Select “Hello World” project and click “Finish”



9) Connect your FPGA board to your computer and right click on your application project and select “Run As->Launch on Hardware(System debugger). Your PS should now

have created a clock signal for you PL.

10) In the menu bar click "Xilinx Tools->Program FPGA.

Now your program should be running on the FPGA or you are in trouble ;) It is also possible to program your hardware in Vivado but i haven't found out how to program the processor from there yet.