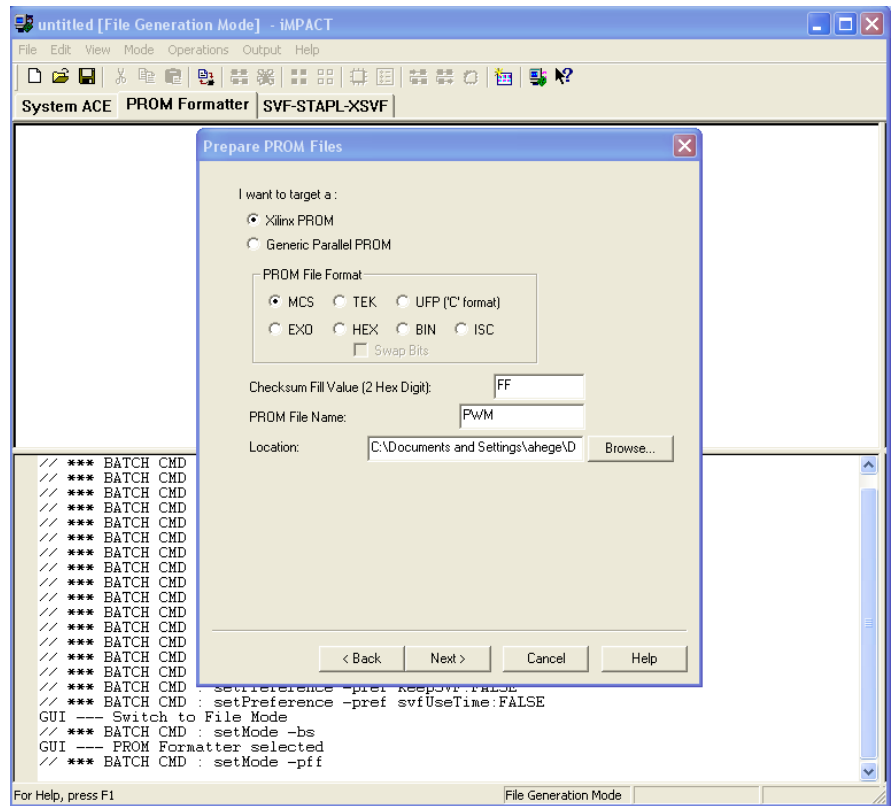
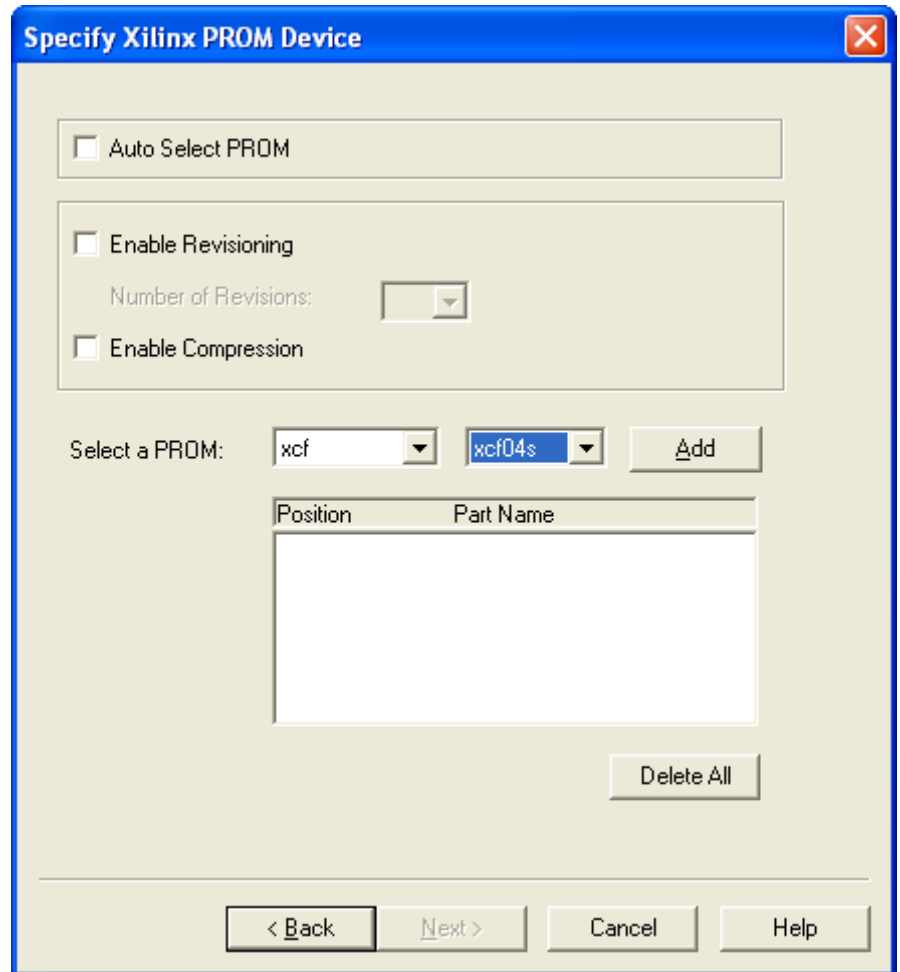


The goal of this tutorial is to demonstrate how to create the EEPROM file for the Spartan 3 Starter Kit board. The Serial EEPROM part number on the board is Xilinx XC4045.

1. Open iMPACT from the start menu
2. Select Cancel on the first message box that pops up.
3. On the menu bar select Mode then click on 'File Mode'.
4. Select the PROM Formatter tab.
5. Right click in the area that says "Right click to Launch Wizard". Select Launch Wizard.
6. Change the "PROM File Name:" text box to the desired filename. In this case, it will be called 'PWM'. Then, Browse to the desired location for the new file (preferably in the project directory). Then click Next>.



7. Select the PROM part number next to 'Select a PROM:'. In this case, choose 'xcf04s' from the drop-down list. Then, click the Add button to the right.
8. Click Next>.
9. Click Next> again to add the device.



10. Click the 'Add File...' button. Then browse to the location of the .bit file and select it. Click the Open button.
11. A message about changing the Startup Clock may appear. If so, click OK.
12. A message about adding addition design file will appear select No, if no more file are required.
13. Click the Finish button to generate the file.
14. Close iMPACT.
15. Open Digilent, Inc.'s ExPort to for configuring Digilent's USB boards.
16. Initialize Chain, then unselect the FPGA (by clicking check box).

17. Browse for the .mcs file next to ROM.
18. Click Program Chain.
19. Test the new program by unplugging the power from the board then reapply power. The new functionality should be loaded at power up. Another method would be to press the PROG button on the S3SK board.

