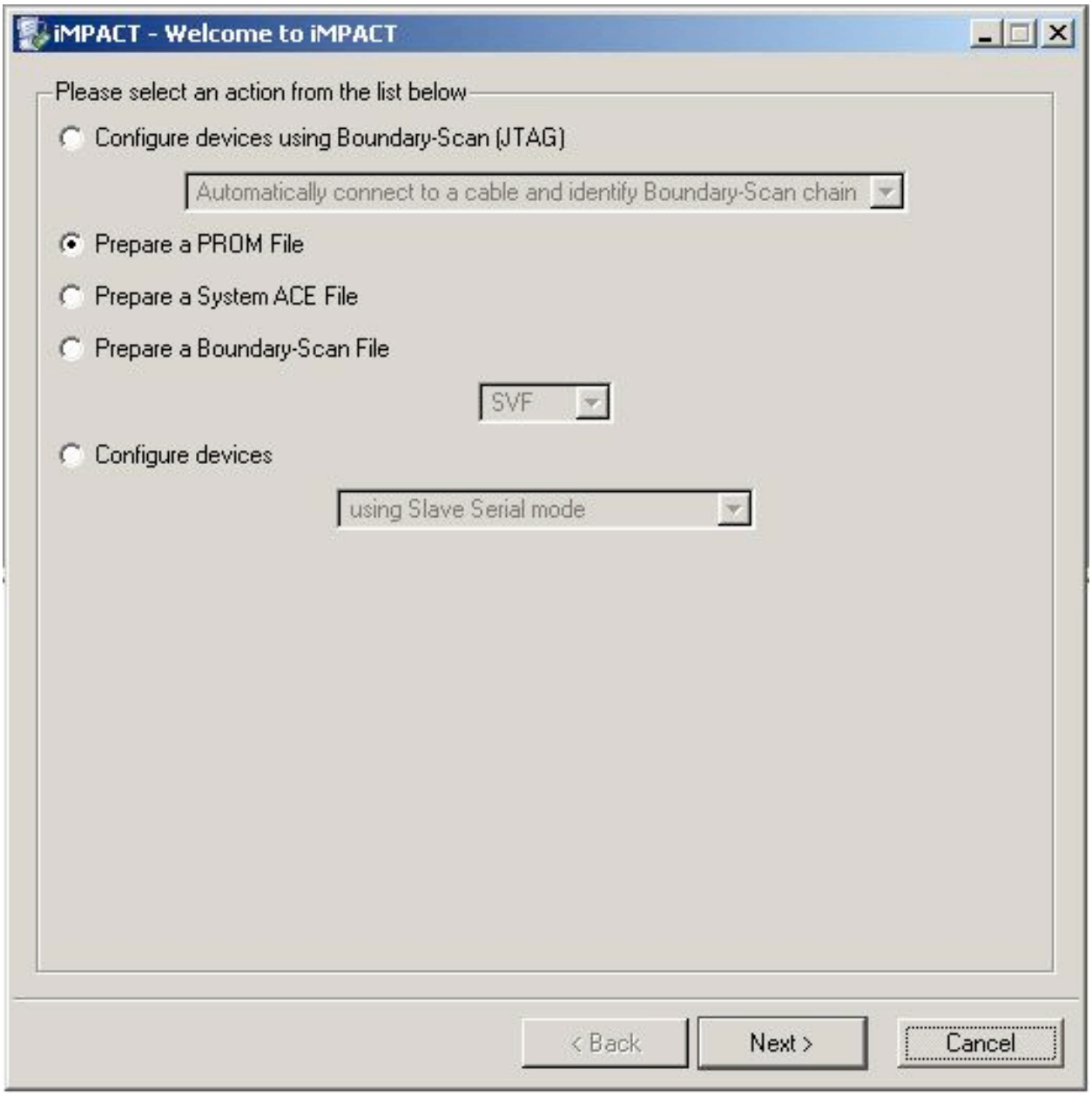
IBOB PROM Burning in iMPACT 10.1 (last rev. 2009/04/22, TF)

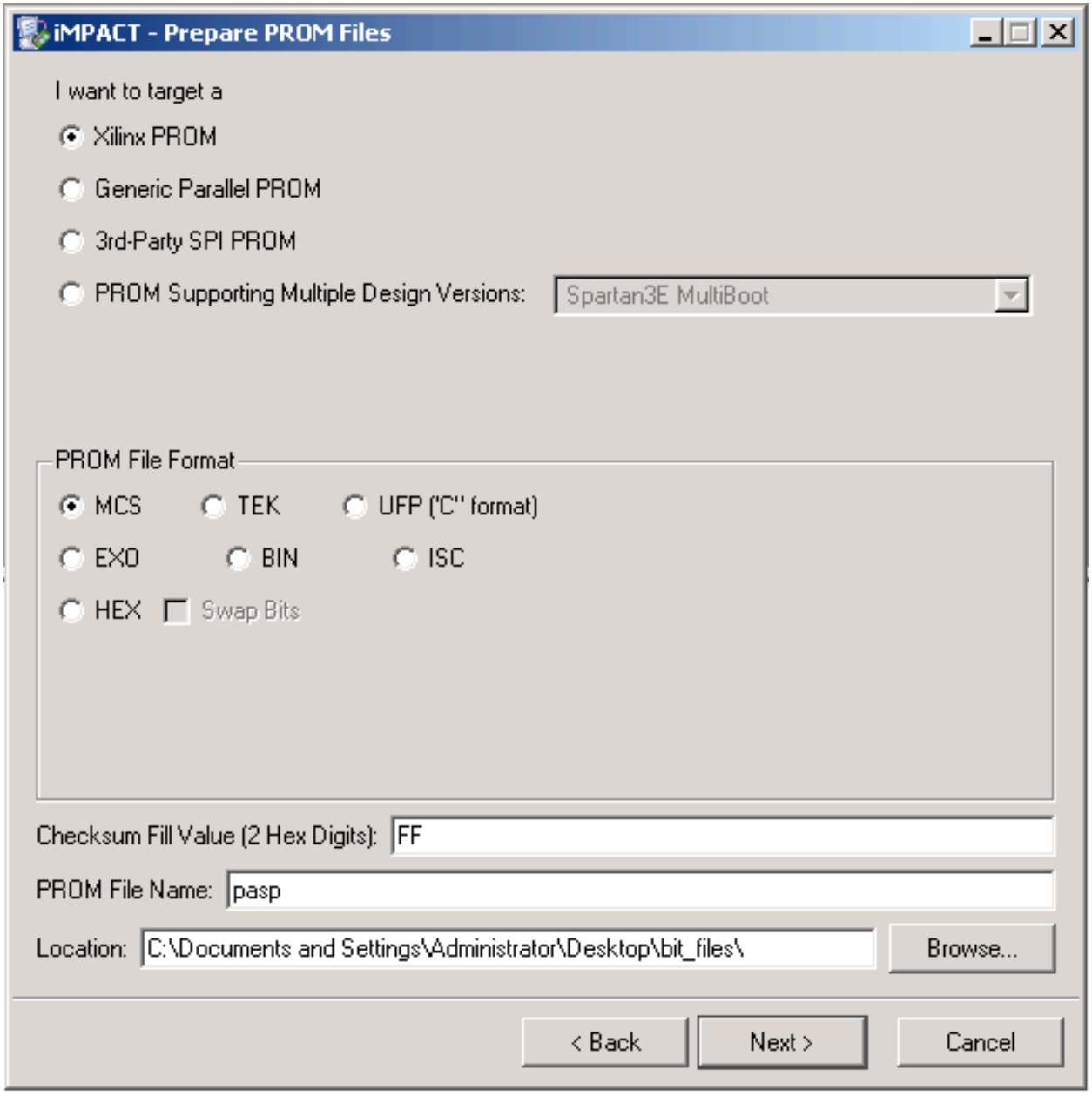
- Set IBOB J15 to jumper across Pins 3 and 4 (middle row) and leave all others unjumpered.

- Start iMPACT. Create a new **.ipf** project and save with any name in any directory (ie., the directory with your bit file).

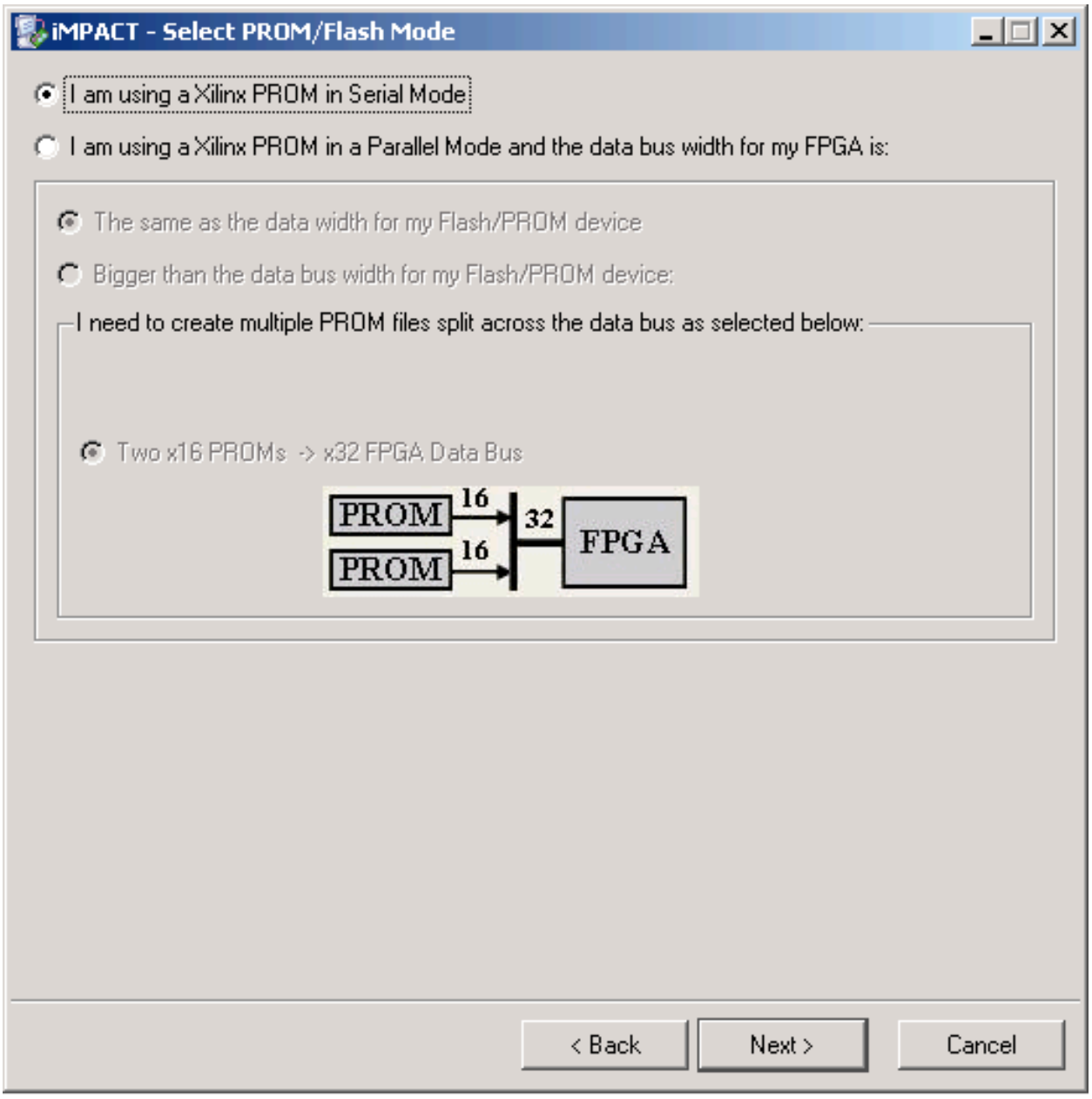
- In **Welcome to Impact** choose *Prepare a PROM File*



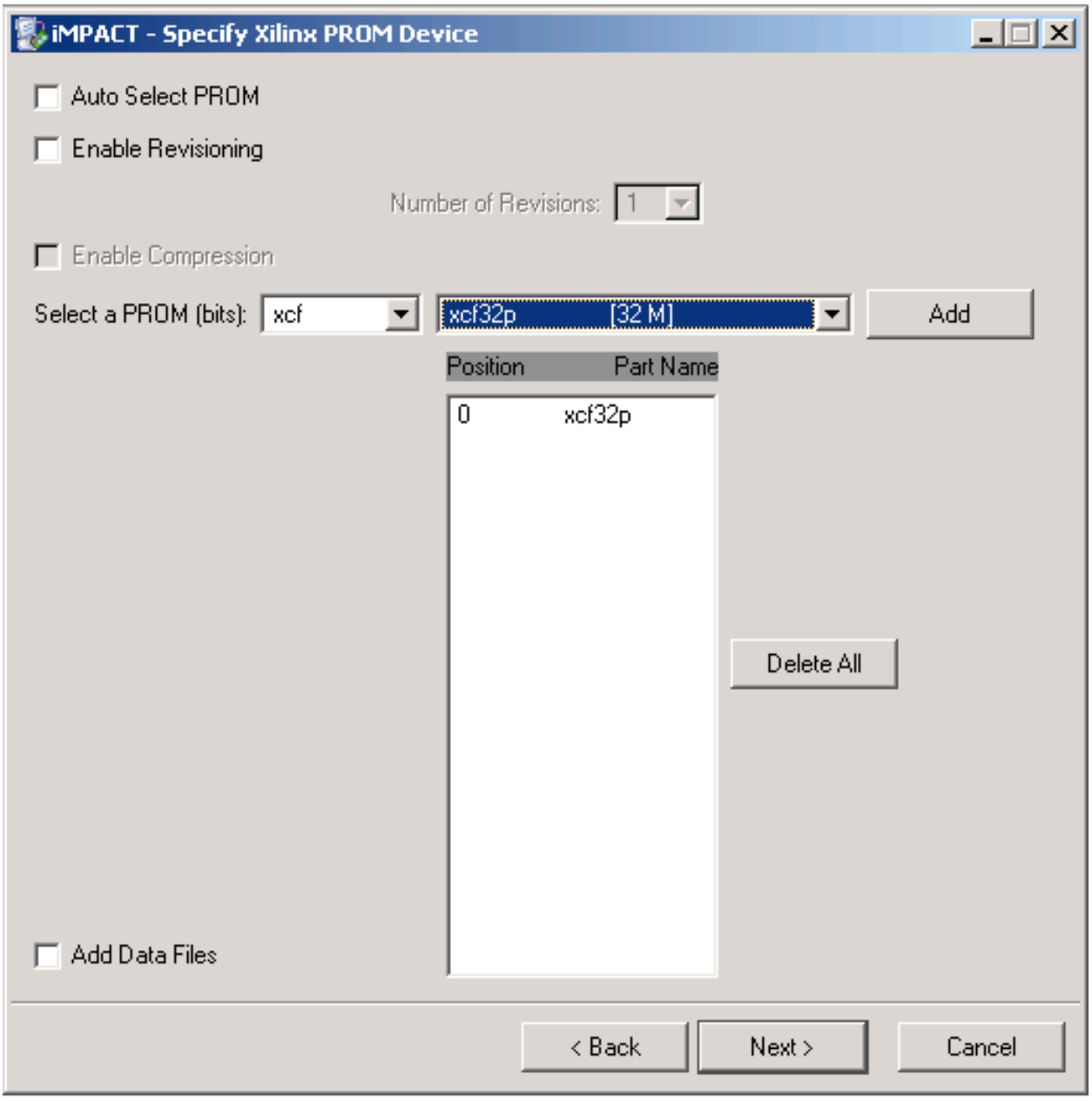
- In **Prepare PROM Files**, use the following options:
  Target: *Xilinx PROM*
  PROM file Format: *MCS*
  Checksum Fill Value: *FF*
  PROM File Name: *any*
  Location: *any*



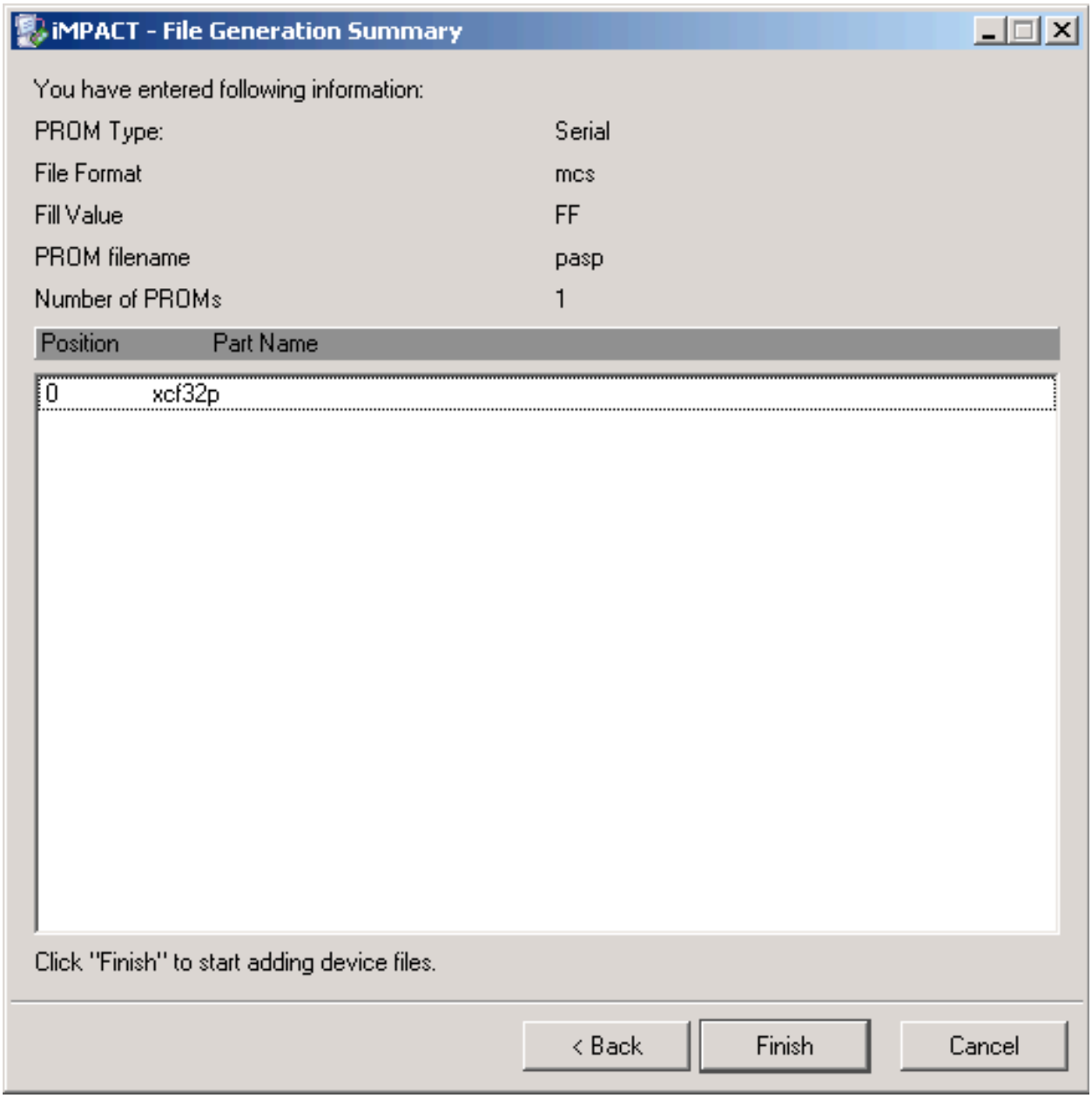
- In **Specify PROM/Flash Mode**:
  Select *I am using a Xilinx PROM in Serial Mode*



- In **Specify Xilinx PROM Device**:
  Deselect *Auto Select PROM*
  Deselect *Enable Revisioning*
  Deselect *Enable Compression*
  Select *XCF / XCF32P* and click “Add”



- **The File Generation Summary** should look like:



- In **Add Device File**, click “Add” and select your **.bit** file. iMPACT will give a warning about changing the startup clock; which isn’t a cause for concern. Decline any offers to add other design files to the Data Stream. Click “Finish” and generate the PROM file. The xcf32p device should show about 56% full.

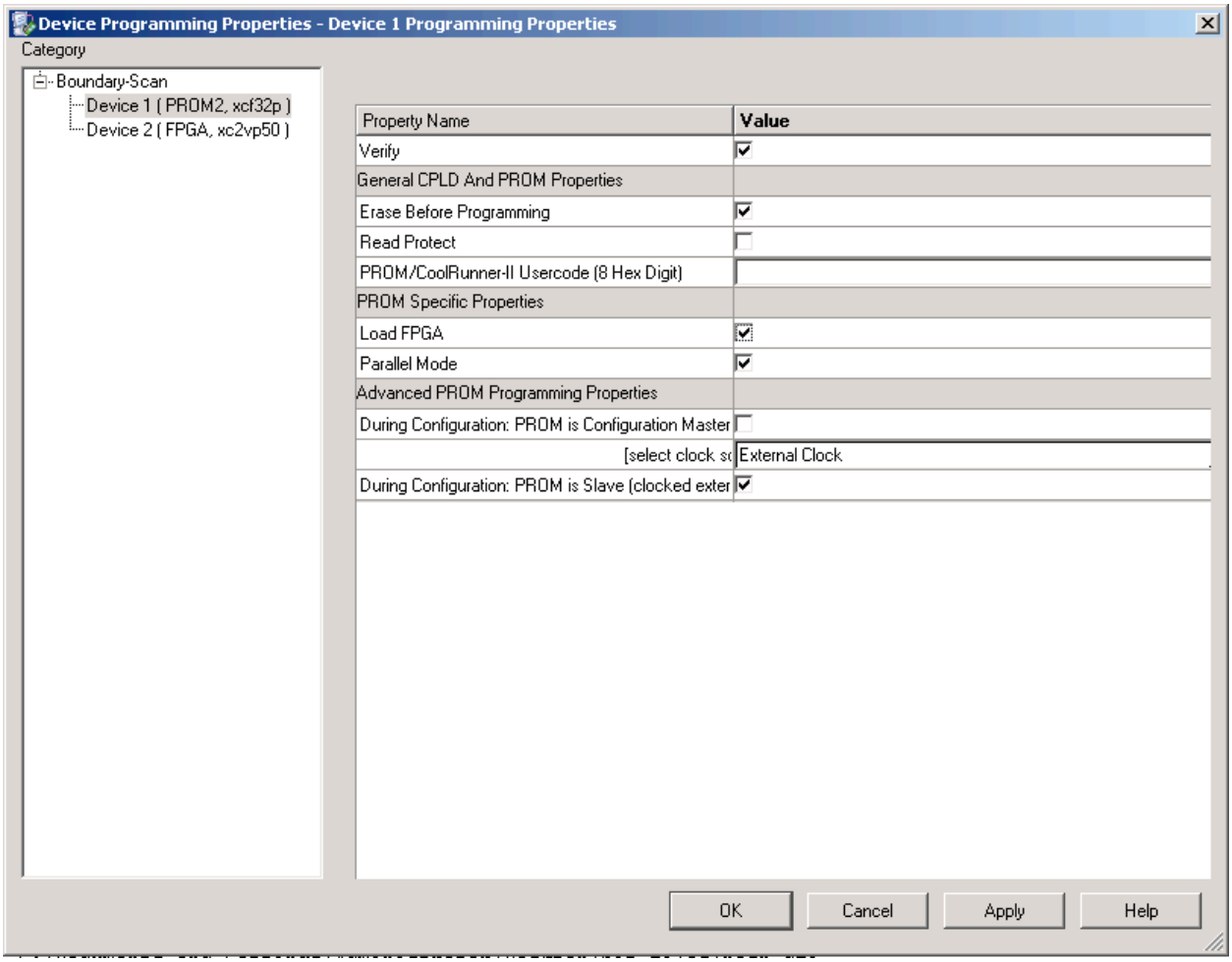
- Once the file generation finishes, close and restart iMPACT. Cancel when it asks about opening or creating a project.

- Initialize the JTAG chain.

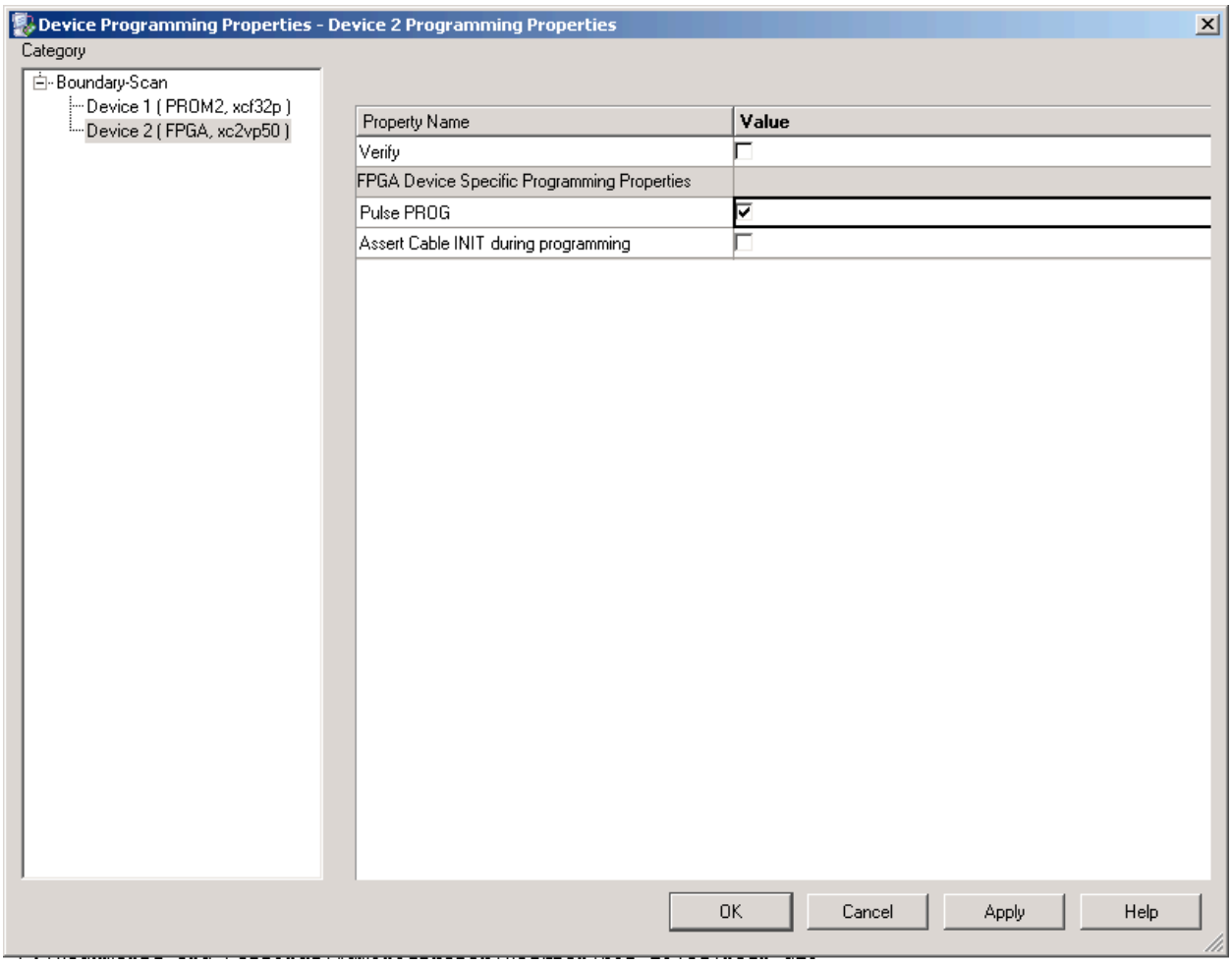
- Assign the **.mcs** file you just created to the **xcf32p** device in the JTAG chain. Cancel or bypass when asked about a configuration file for the **xc2vp50**.

- Right-click on the **xcf32p** and select *Program*.

- In the **Device Programming Properties** popup under **PROM2**:
  Select *Erase Before Programming*
  Select *Verify*
  Select *Pulse Prog*
  Select *Load FPGA*
  Select *Parallel Mode*



- In the **Device Programming Properties** popup under **PROM2**:
  Select *Pulse Prog*



- Click OK to begin burning the PROM.
- When PROM flashing finishes, close iMPACT and turn off IBOB.
- Set IBOB J15 to jumper across pins 5 and 6 (lowest row) and leave all others unjumpered.