

## Setting up Quartus II's Simulation Libraries to be used by ModelSim (via Matlab's CosimWizard).

### 1. In Quartus II:

- a. Open the EDA Simulation Library Compiler (Tools->Launch Simulation Library)
  - i. Under *Tool Name*, Select ModelSim
  - ii. Under *Executable Locations*, browse to C:\modeltech64\_10.1c\win64 (or where ModelSim resides)
  - iii. Under *Library families*, add the Cyclone II (using >)
  - iv. Under *Library Language*, select VHDL.
  - v. Under *Output Directory*, browse to a folder you have created (e.g. \simlib)
  - vi. Push the button Start Compilation.
2. **In Matlab's CosimWizard**, following additional step needs to be performed (See the document *Matlab VHDL CoSimulation* for example steps).
  - a. Under the *HDL Compilation* step, add the following line in the *Compilation Commands* window after the line *vlib work*:  
**vmap altera\_mf c:/.../simlib/vhdl\_libs/altera\_mf**

**Note 1:** For the vmap command, the directories need to be separated by forward slashes ('/') rather than back slashes ('\'), since it follows a Linux path specification rather than Windows.

**Note 2:** Replace /.../ with the appropriate path on your computer system to the simulation library.

- Thanks to Jason Creighton for these steps –