

## Getting Started with Quartus

- Type quartus& to start Quartus as a background process.
- From the File pulldown menu, select New Project Wizard.
- From New Project Wizard: Introduction, read the info and click on the Next button to continue when ready.
- From New Project Wizard: Directory, Name, and Top-Level Entity:
  - Enter working directory. Click on ... button to find the appropriate directory and click the Choose button to return to the wizard.
  - Enter name of the project.
  - Enter name of top-level entity (Be careful, this name is **CASE SENSITIVE**.)
  - Click the next button to continue.
- From New Project Wizard: Add Files:
  - Click on ... button and select your .vhd file
  - Click on the Add button.
  - Click the Next button to continue.
- From New Project Wizard: Family and Device Setting
  - Cyclone IV GX is the default, you can select another if you wish.
  - Click the Next button to continue.
- From New Project Wizard: EDA Tool Settings:
  - Click on Simulation -> Tool Name and select Questasim.
  - Click on Simulation -> Format and select VHDL.
  - Click the Next button to continue.
- From New Project Wizard: Summary
  - After making sure the information is correct, click the Finish button.
- In the entity window, select the project you just created, or any other project.
- From the pulldown menu, select Processing -> Start Compilation. Underneath the entity window, you should now see a window which shows the progress of the compilation. The compilation takes a while but you should see progress in the five subareas of the compilation and in the compilation process as a whole.
- Once compilation has completed successfully, you are done with Quartus.
- Quartus writes your structural gate-level VHDL file into a .vho file and your standard delay information into a .sdo files in a subdirectory simulation/modelsim
- You now have what you need to do your post place and route simulation.