

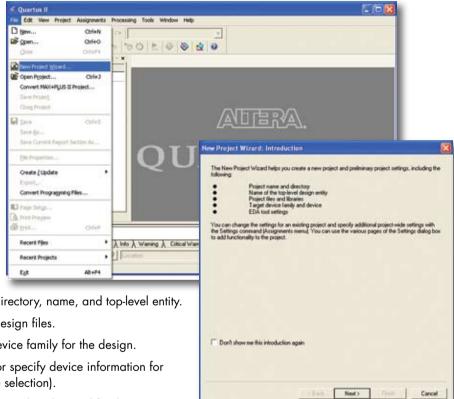
Quick Start Guide For Quartus II Software

This Quick Start Guide will show you how to set up a Quartus[®] II project, enter timing requirements, and compile the design into an Altera[®] device.



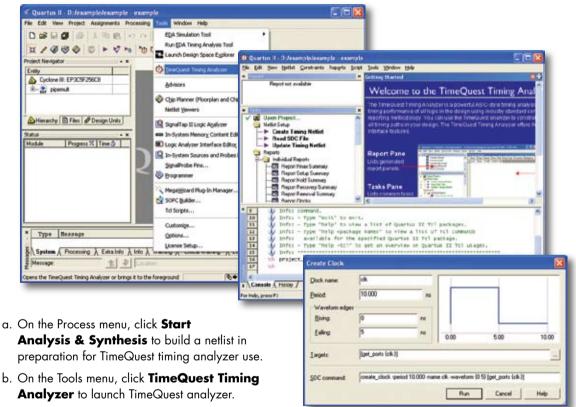
Three-Step Design Compilation in Quartus II Software

Run the New Project Wizard



- a. Specify project directory, name, and top-level entity.
- b. Specify project design files.
- c. Specify Altera device family for the design.
- d. Specify device (or specify device information for automatic device selection).
- e. Specify other EDA tools to be used for this project.
- f. Review project settings.

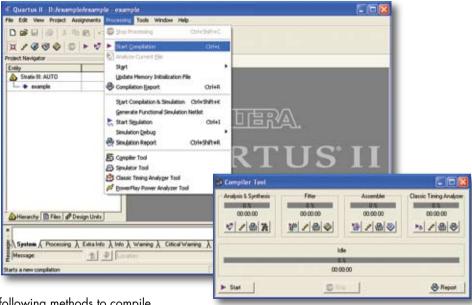
Run the TimeQuest Timing Analyzer



- i. On the Netlist menu, click Create Timing
 Netlist and select Post-map to
 create the timing netlist with timing delay information.
- ii. Specify your design timing constraints using the analyzer's graphical user interface (GUI) or by using the Synopsys Design Constraint (SDC) text editor.
- c. On the Assignment menu, click **Timing Analysis Settings** to specify TimeQuest analyzer as the timing analysis tool and to add your SDC file to the project.

Quartus II Assignment menu provides all settings and assignments for the project.





- a. Select one of the following methods to compile the design:
 - i. On the Processing menu, click **Start Compilation**.
 - ii. On the menu toolbar, click .
 - iii. On the Processing menu, click **Compiler Tool** and click **Start**.
- When compilation is complete, refer to the Compilation Report window to view information on compiler settings, resource usage, and compilation equations.

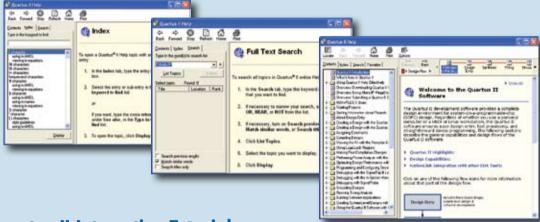
Timing analysis is also performed during compilation on the current design, and the Compilation Report window includes the timing information.



Get Quartus II Help and Information

Refer to the Quartus II Help

- Press F1 from a highlighted menu command or active dialog box for context-sensitive help
- Choose **Index** (Help menu) to view the index
- Choose **Search** (Help menu) to perform a search
- Choose Contents (Help menu) to view the contents



Quartus II Interactive Tutorial

The Quartus II software includes a Flash-based Interactive Tutorial. The modules of this tutorial teach you how to use the basic features of the Quartus II design software, including design entry, compilation, timing analysis, simulation, and programming.

This tutorial includes audio and Flash animation components, and is best experienced with a sound card and speakers and at least 1024x768 display resolution.

Once you start the tutorial, you can jump immediately to any tutorial module by clicking the Contents button. Once you select a tutorial module, you can click the ShowMe, GuideMe, or TestMe buttons at any time to jump directly to the tutorial mode that best suits your learning style.



For More Information

Introduction to the Quartus II Software

www.altera.com/literature/manual/intro_to_quartus2.pdf

Quartus II Online Demos

www.altera.com/quartusdemos

Quartus II Development Software Handbook

www.altera.com/literature/hb/gts/guartusii handbook.pdf

Altera Design Software

www.altera.com/products/software/sfw-index.html

Technical Support

www.altera.com/mysupport

Altera Technical Literature

www.altera.com/literature/lit-index.html



Altera Corporation 101 Innovation Drive San Jose, CA 95134 USA www.altera.com

Copyright © 2007 Altera Corporation. All rights reserved. Altera, the stylized Altera logo, specific device designations and all other words and logos that are identified as trademarks and/or service marks are, unless noted otherwise, the trademarks and service marks of Altera Corporation in the U.S. and other countries. All other product or service names are the property of their respective holders. Altera products are protected under numerous U.S. and foreign patents and pending applications, mask work rights, and copyrights.