

PART II

Tools you need & Concrete Design Example

Tools

➤ You need two things

1. Editor

- ❑ Quartus II 5.1sp2 Web Edition Full

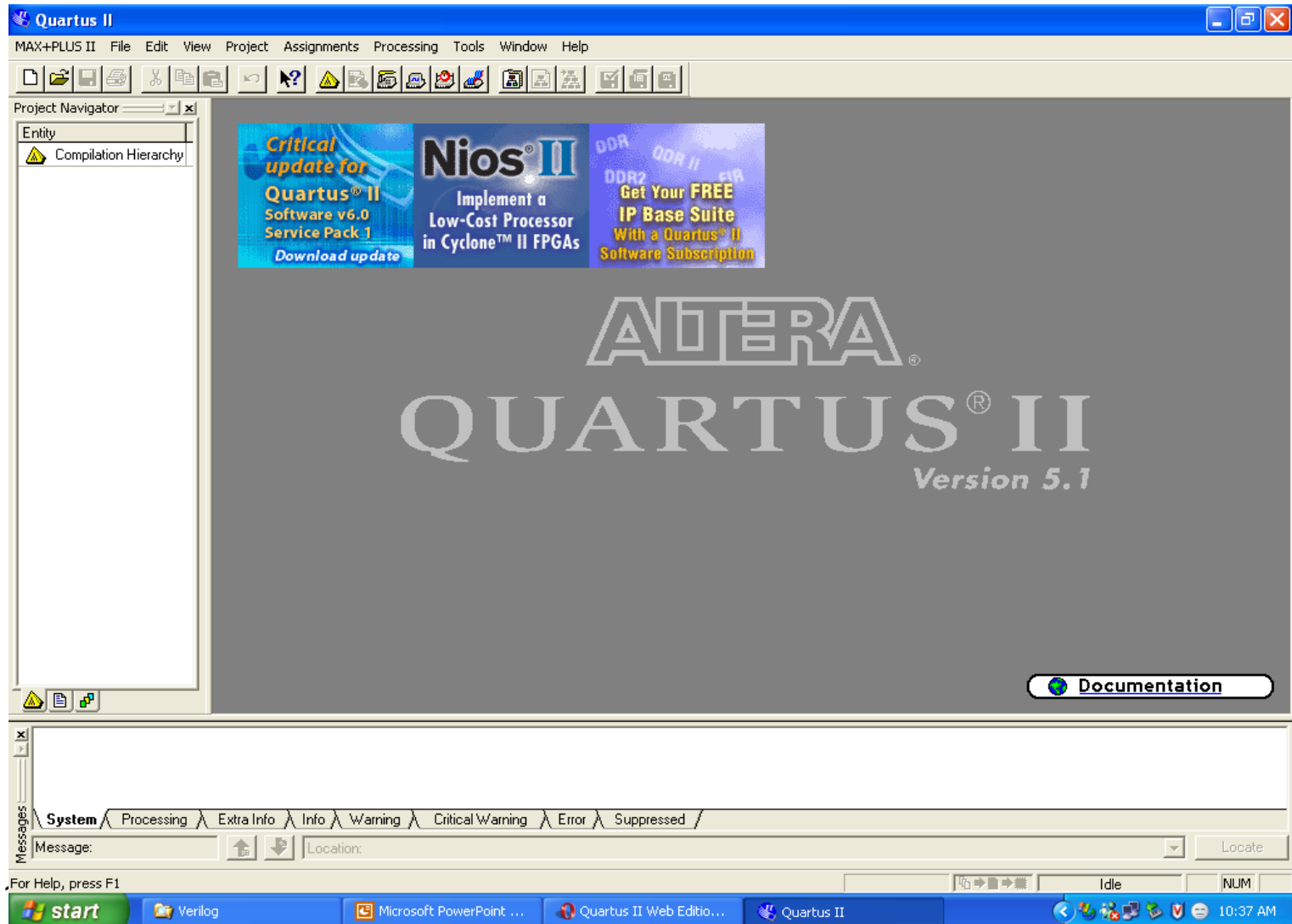
2. Simulators

- ❑ Quartus II 5.1sp2 Web Edition Full

Quartus IDE

Download it from Here:

https://www.altera.com/support/software/download/altera_design/quartus_we/dnl-quartus_we.jsp

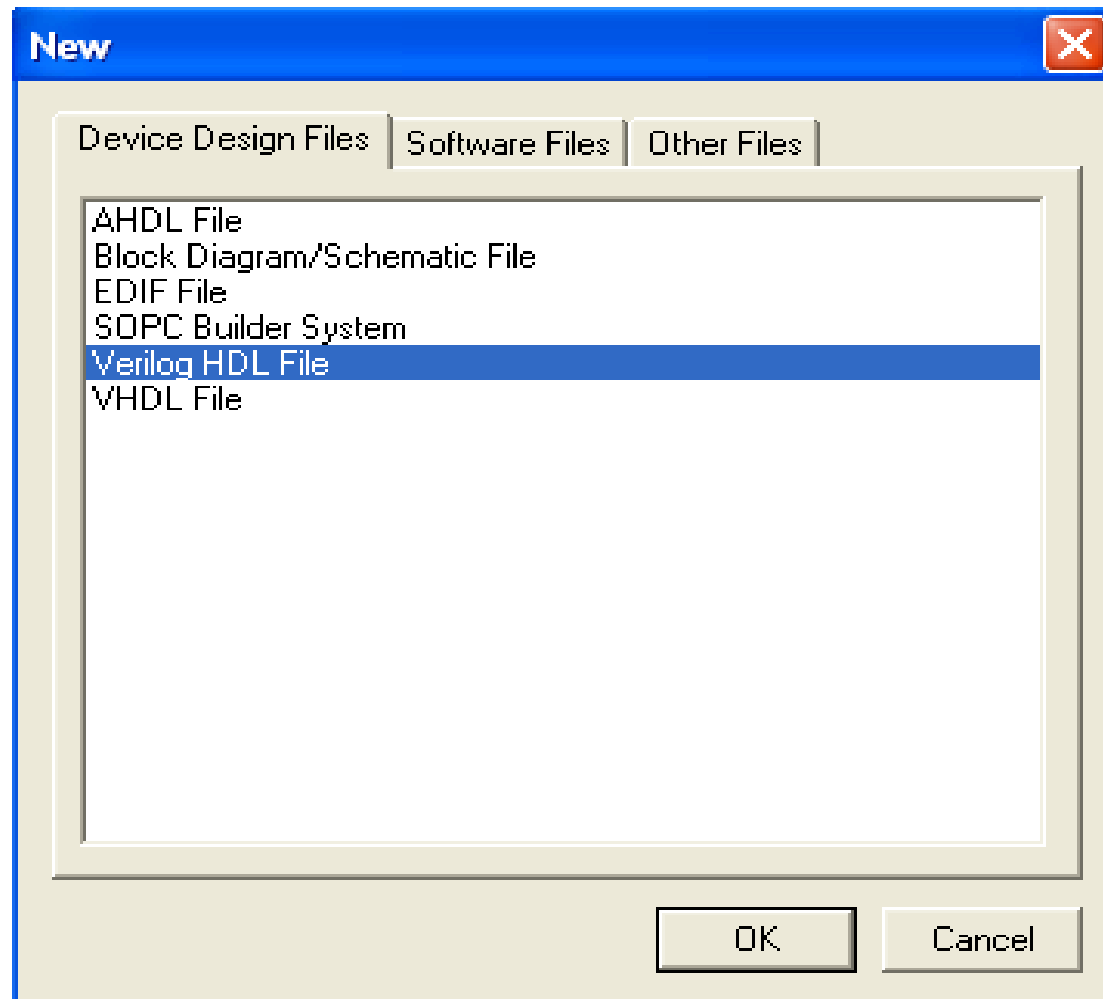


Example of MUX 2/1

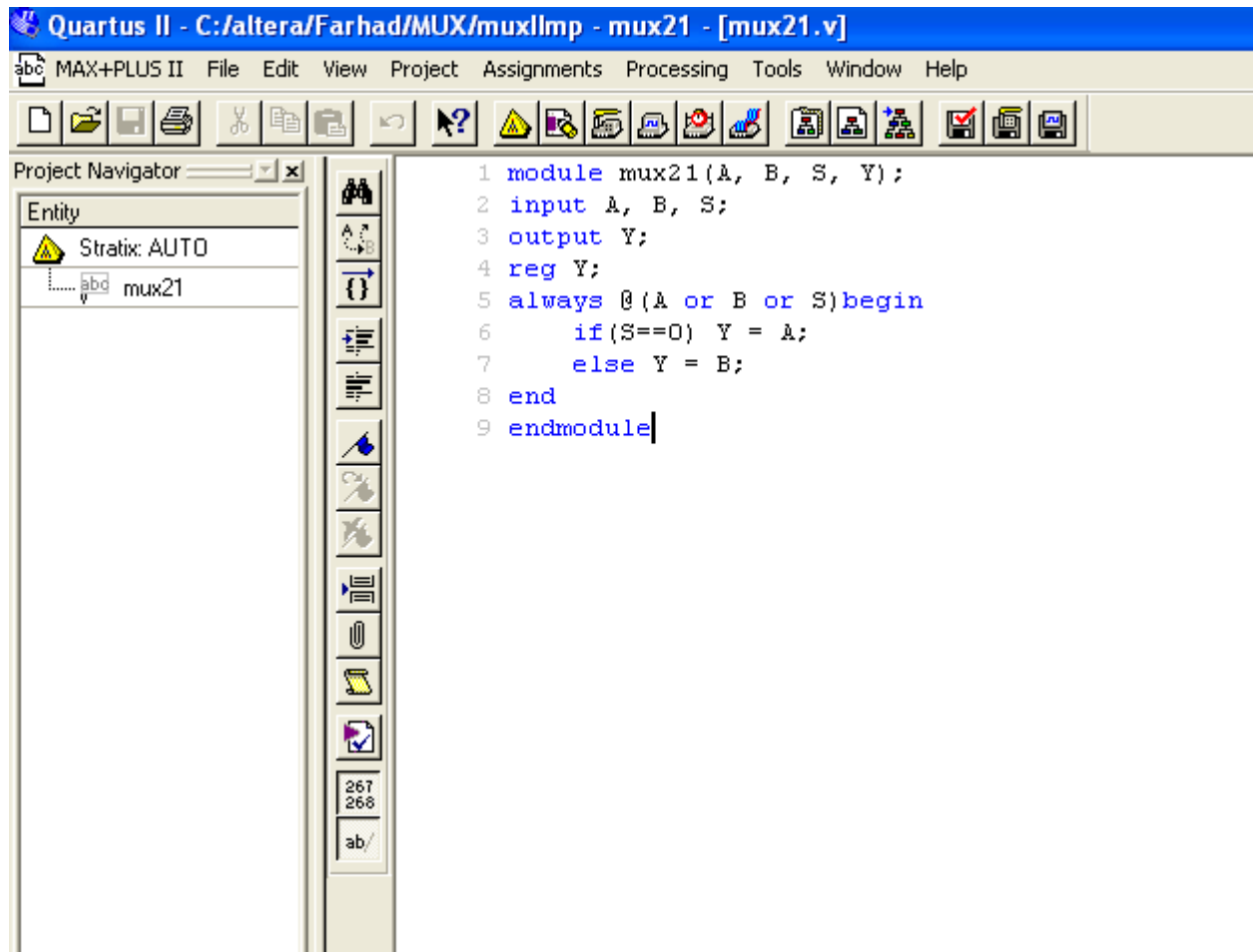
- Create a project

The screenshot shows a Windows-style dialog box titled "New Project Wizard: Directory, Name, Top-Level Entity [page 1 of 5]". The dialog has a blue title bar with a red close button. The main area is light beige and contains three text input fields, each with a "..." button to its right. The first field is labeled "What is the working directory for this project?" and contains the text "C:\altera\Farhad\MUX". The second field is labeled "What is the name of this project?". The third field is labeled "What is the name of the top-level design entity for this project? This name is case sensitive and must exactly match the entity name in the design file.". Below these fields is a button labeled "Use Existing Project Settings ...". At the bottom of the dialog are four buttons: "< Back", "Next >", "Finish", and "Cancel".

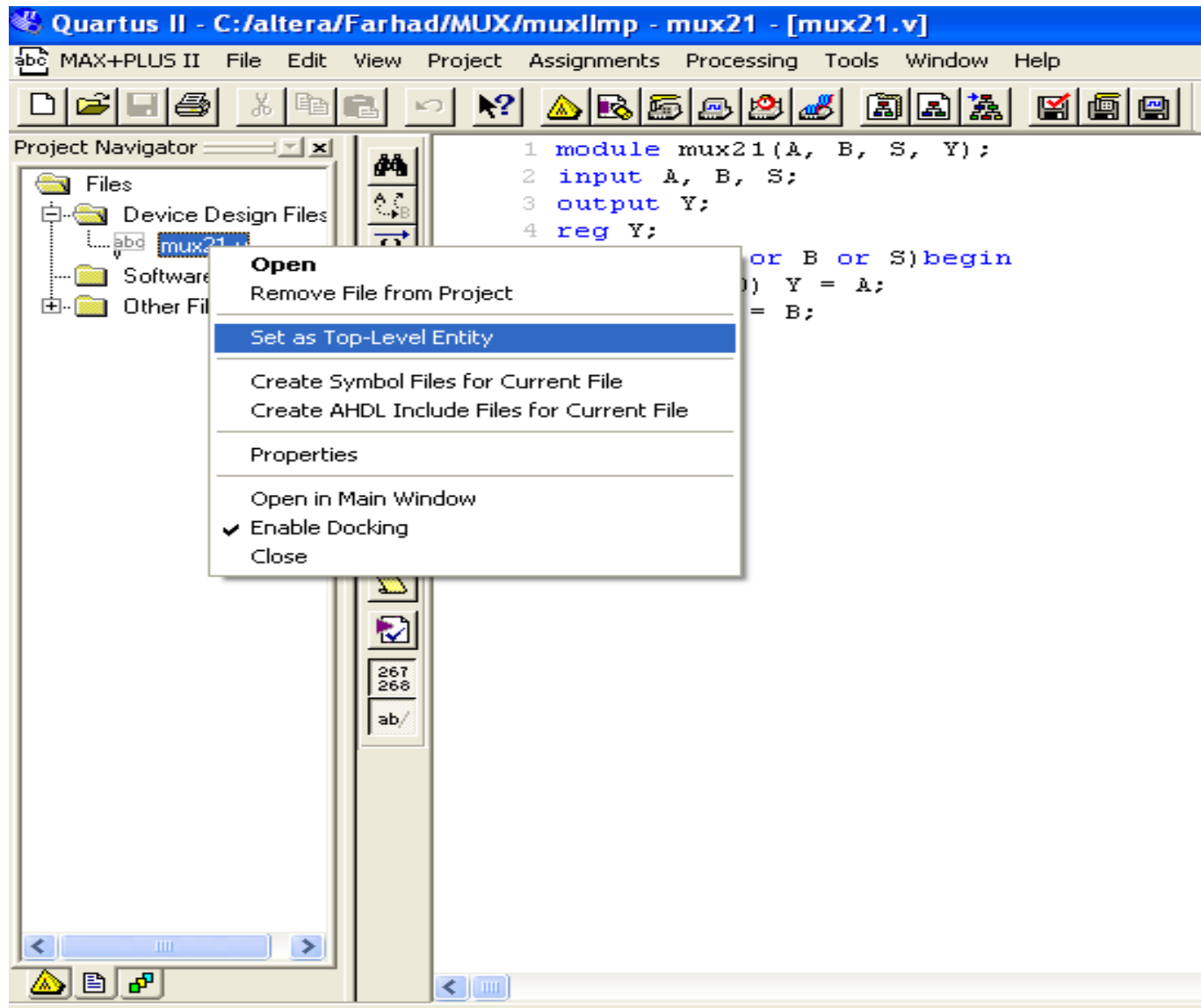
Create or add verilog file to the project



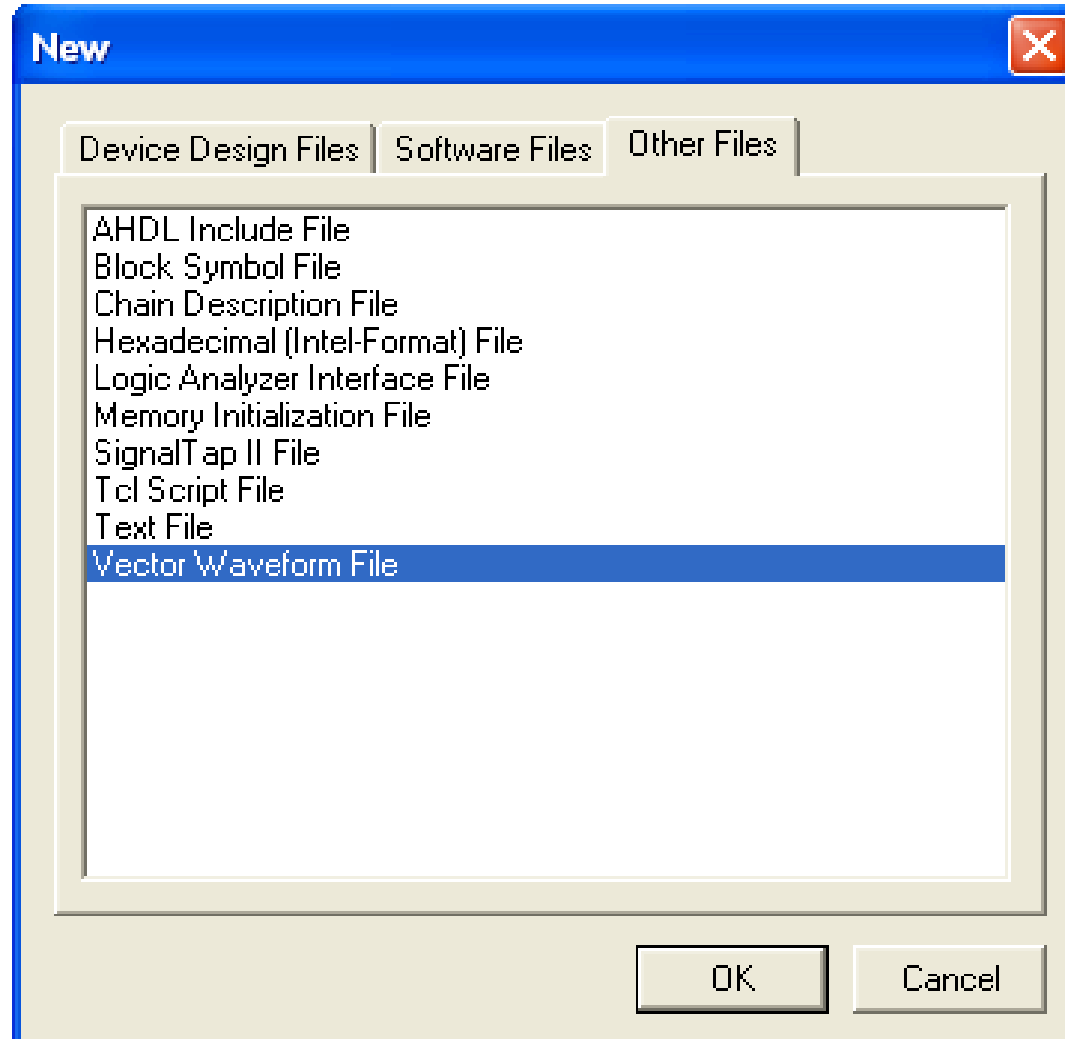
The file is written and saved and add to the project

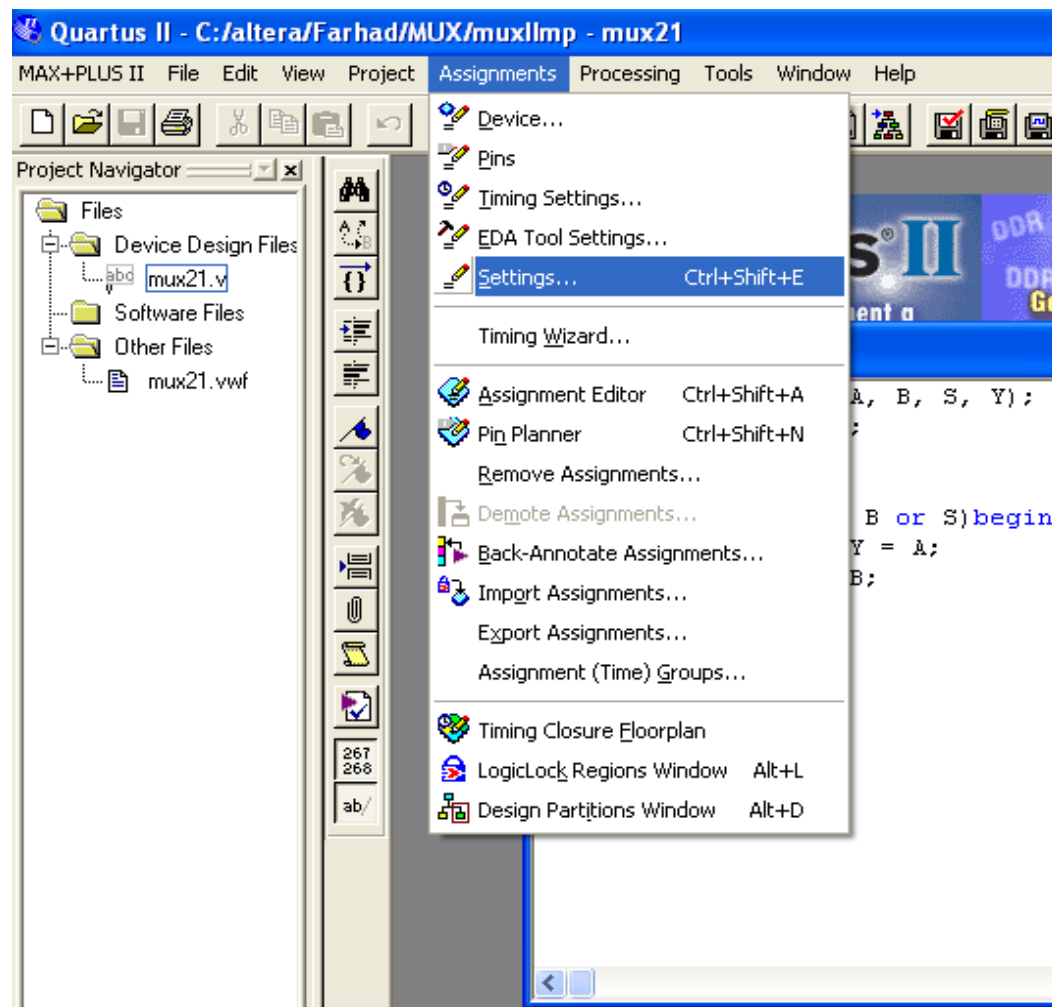


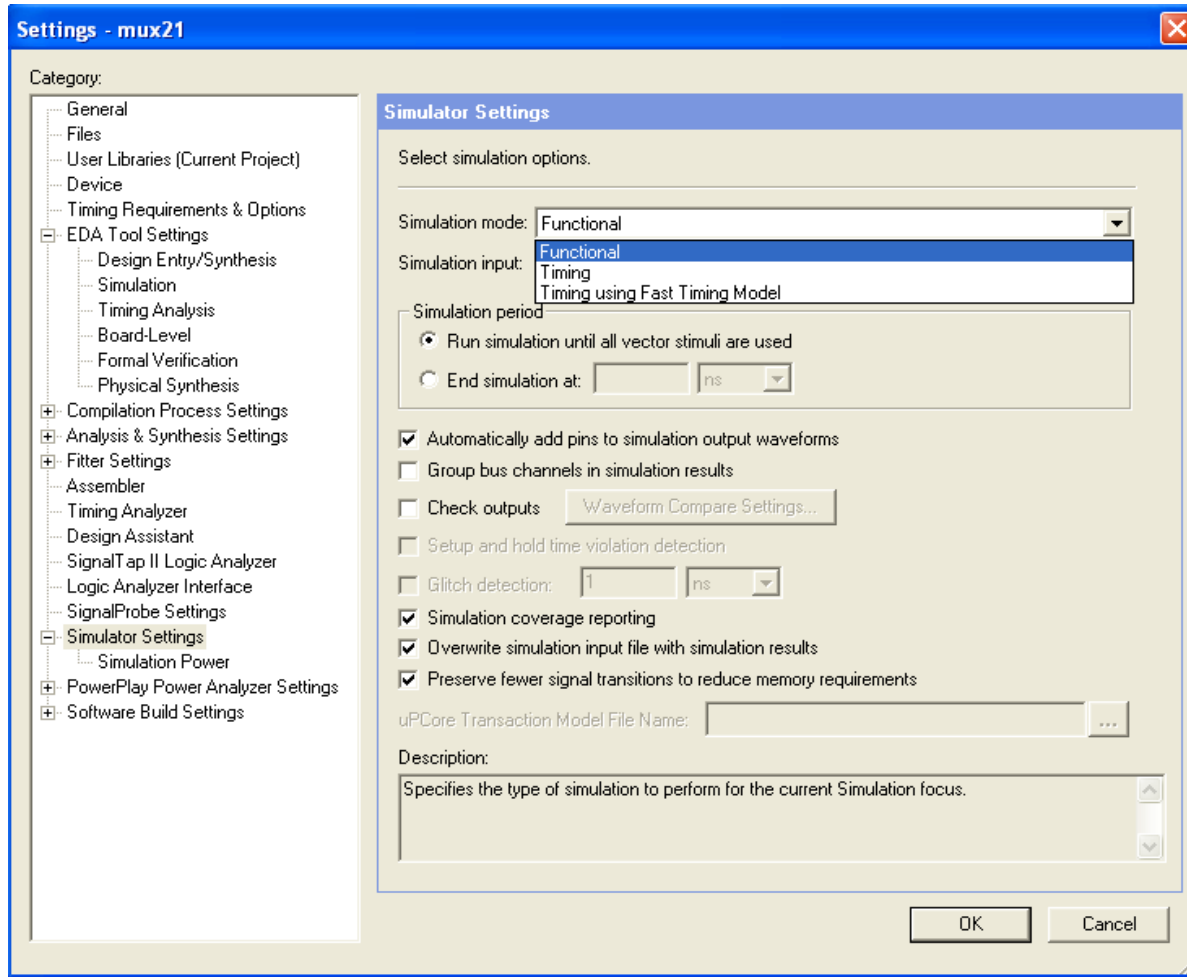
Set the file as top level entity

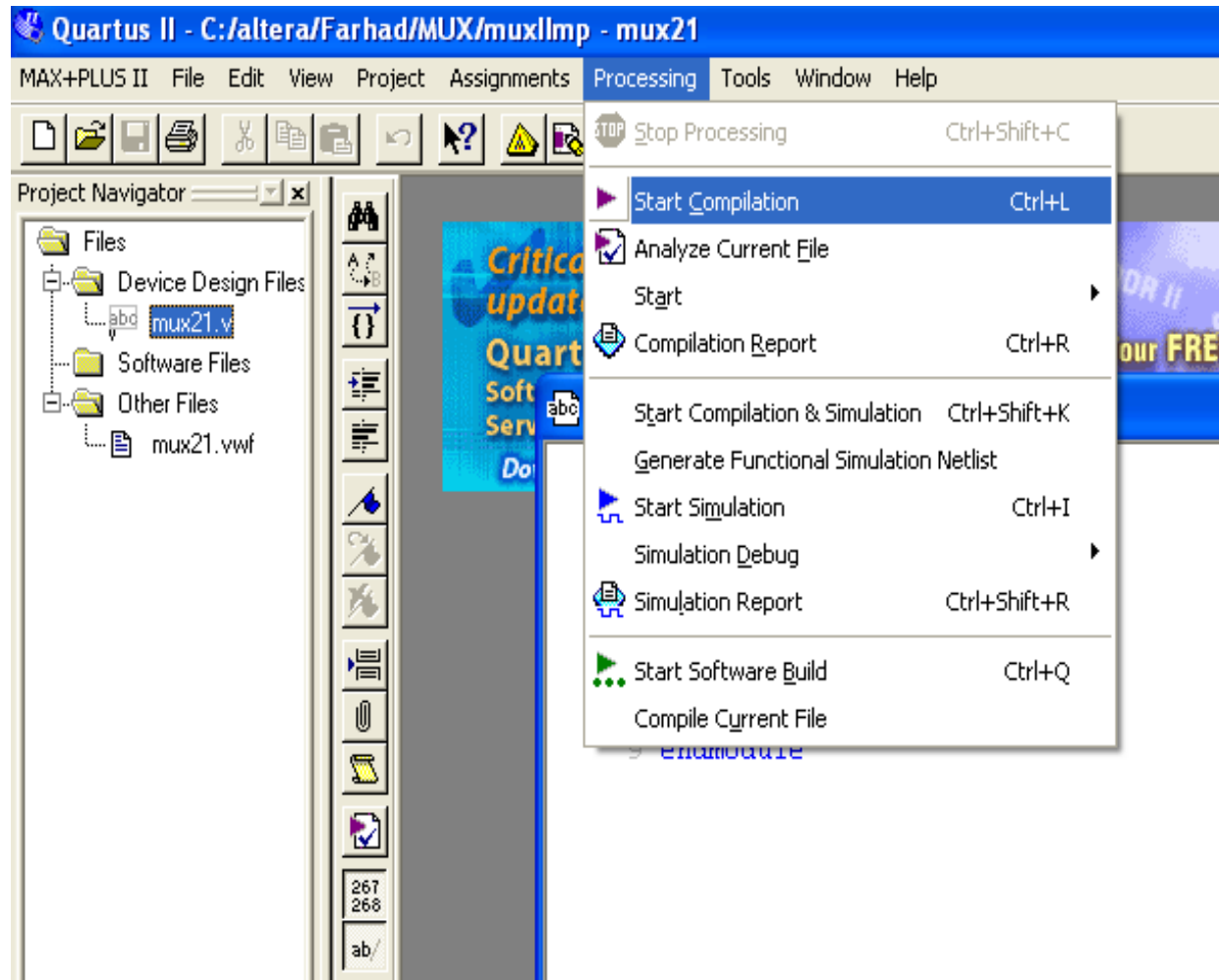


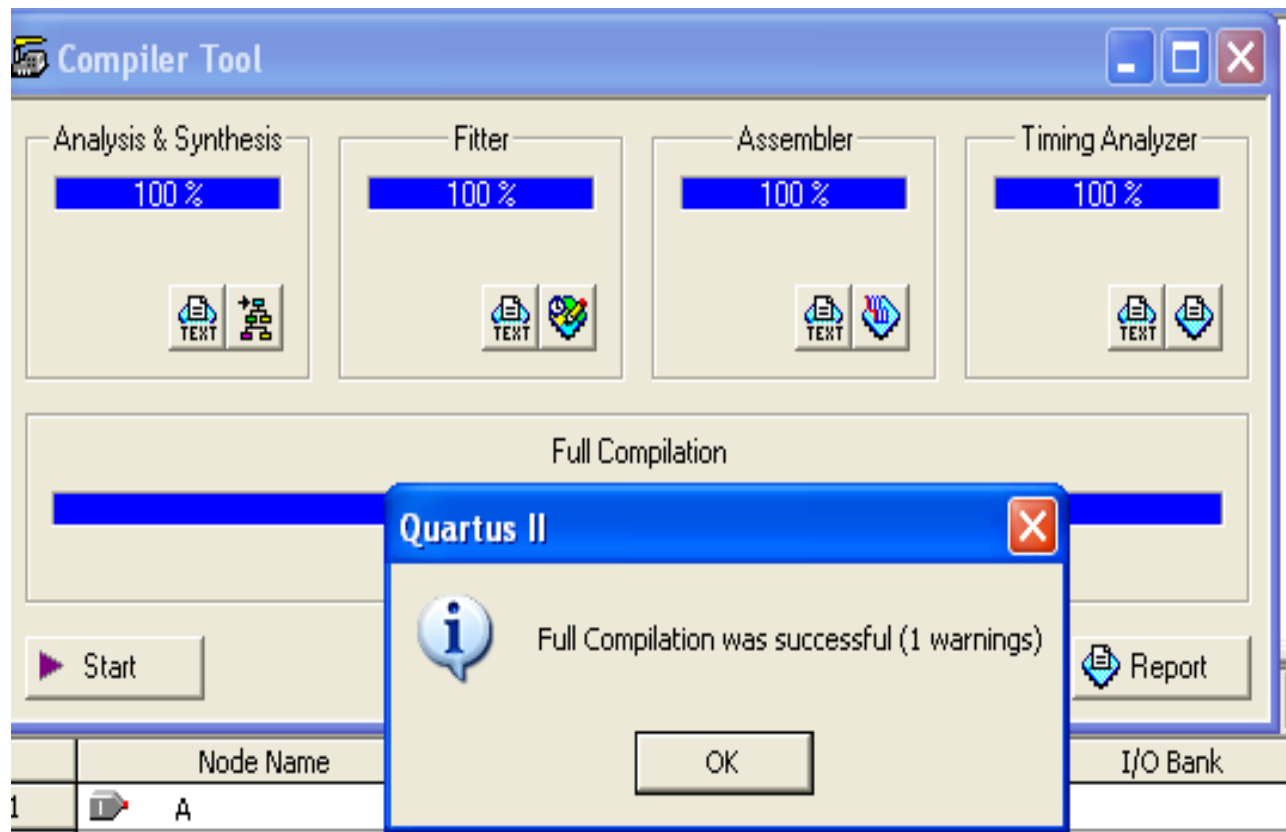
Create a vector waveform file to synthesize and add to the project

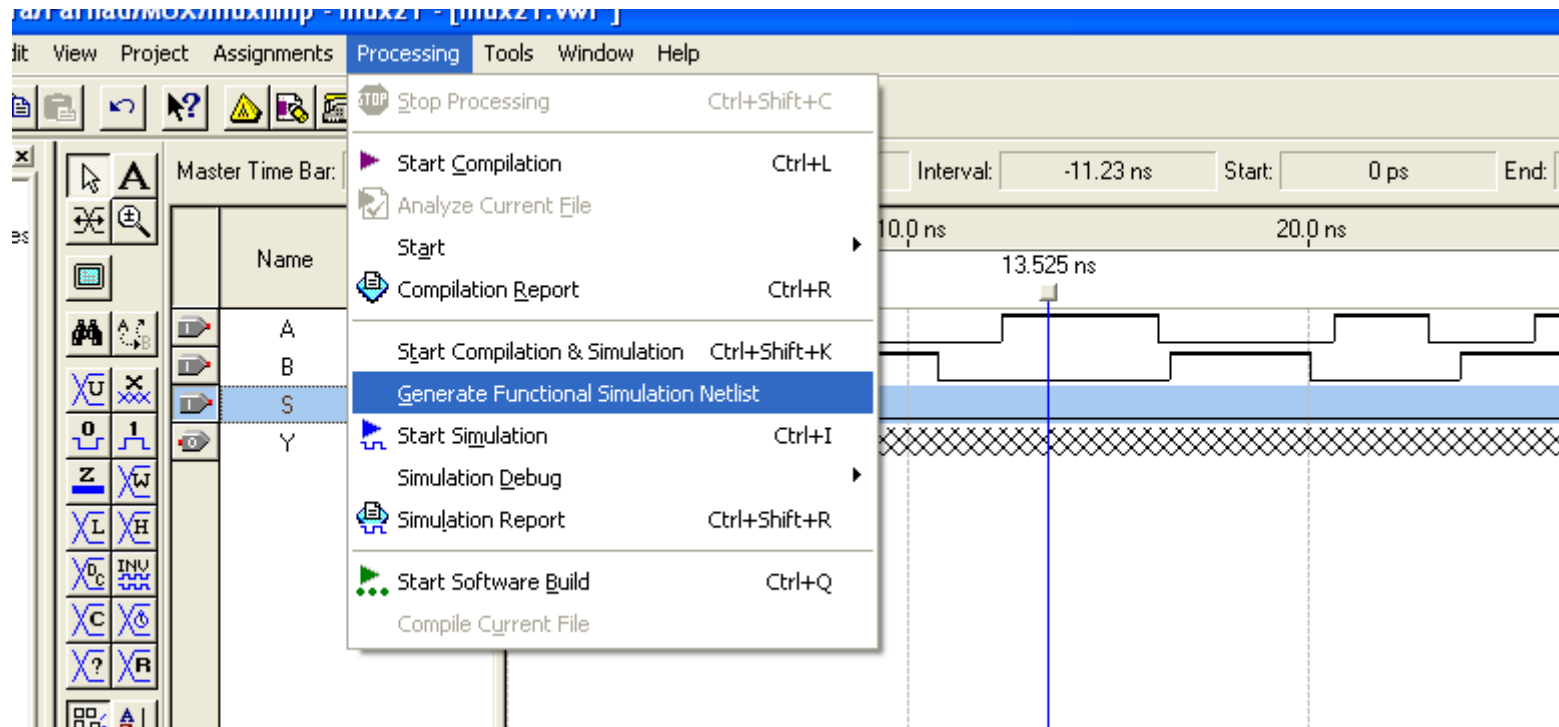


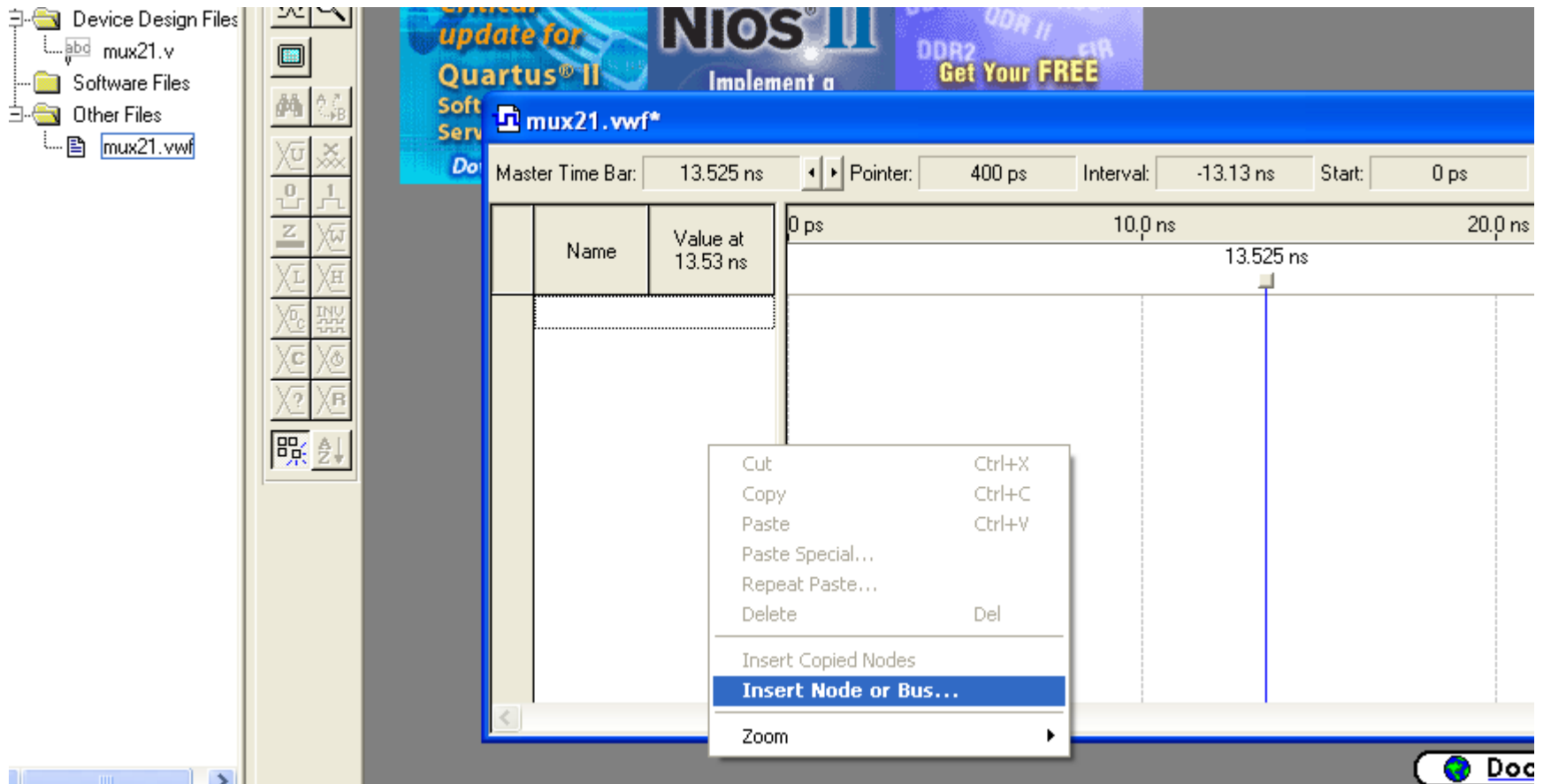













Insert Node or Bus 

Name:

Type:

Value type:

Radix:

Bus width:

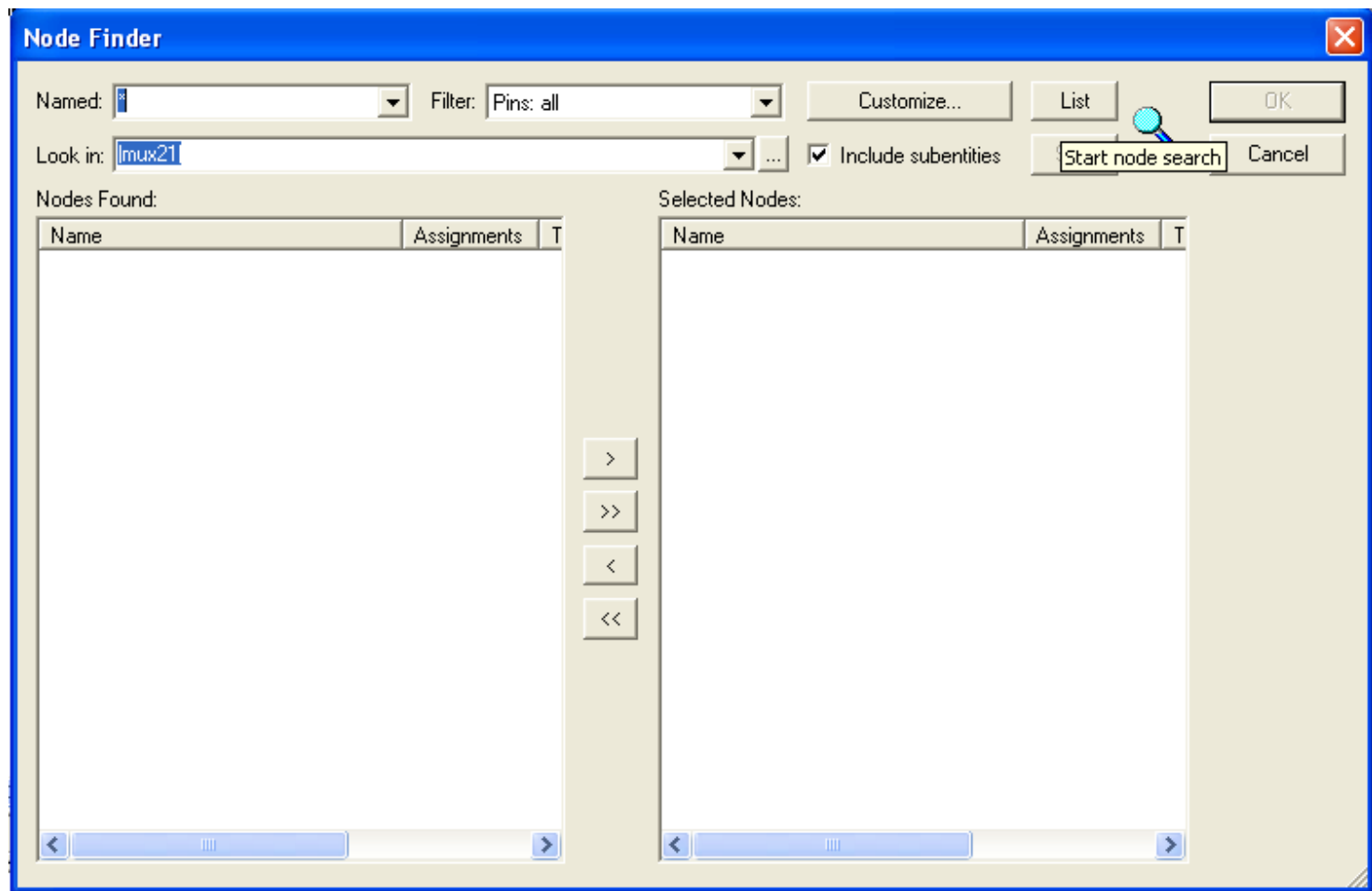
Start index:

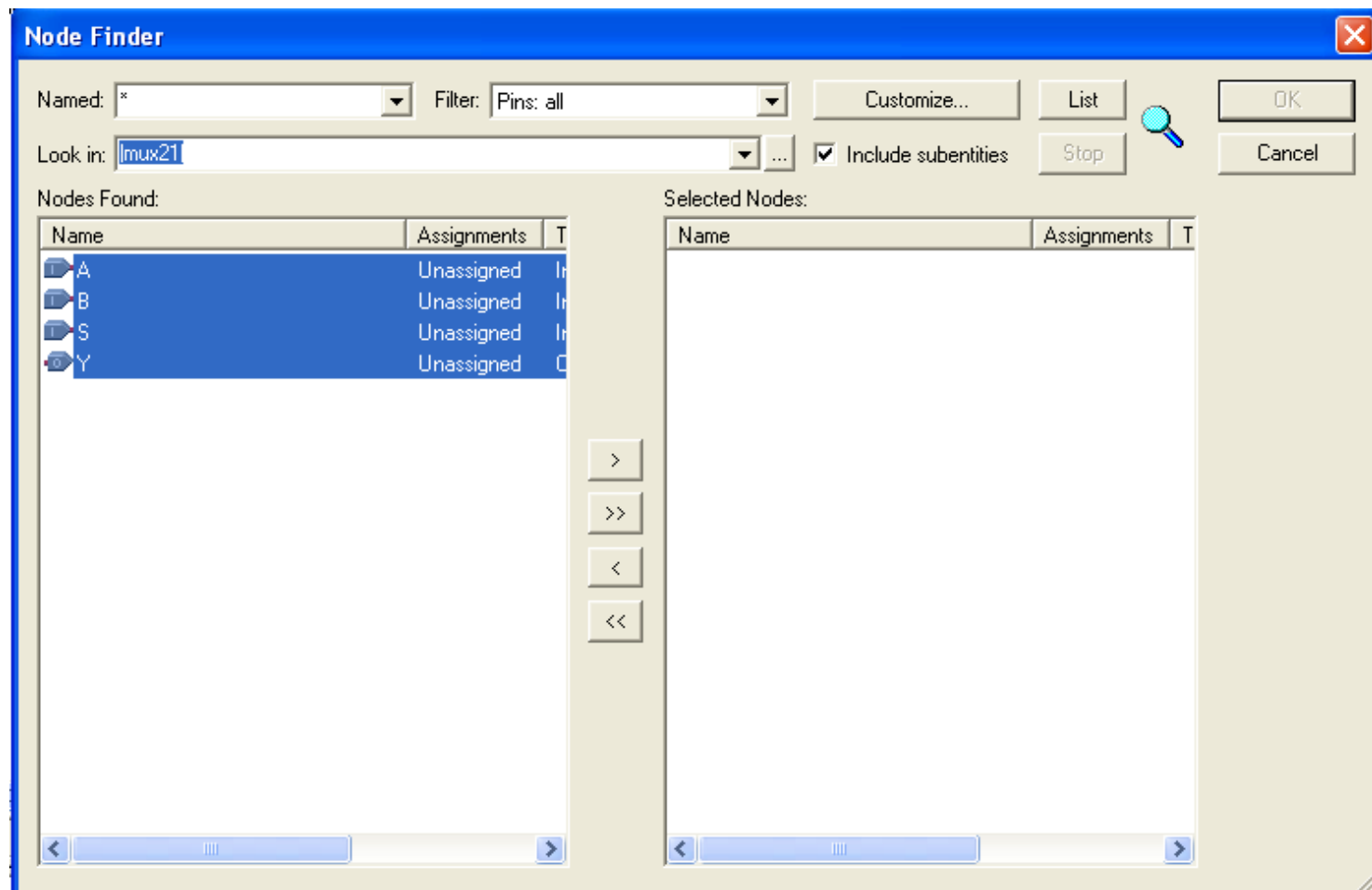
☐ Display gray code count as binary count

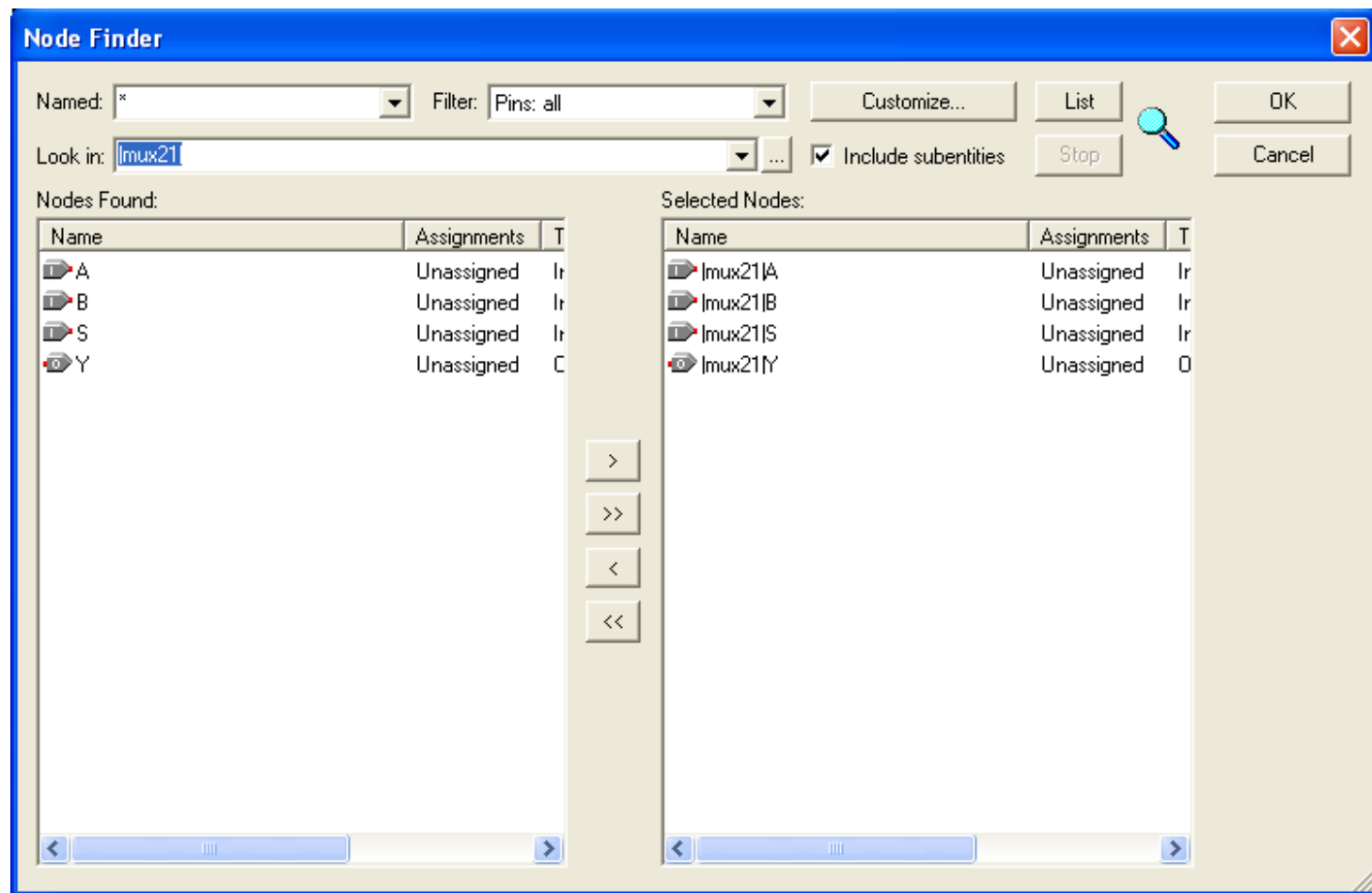
OK

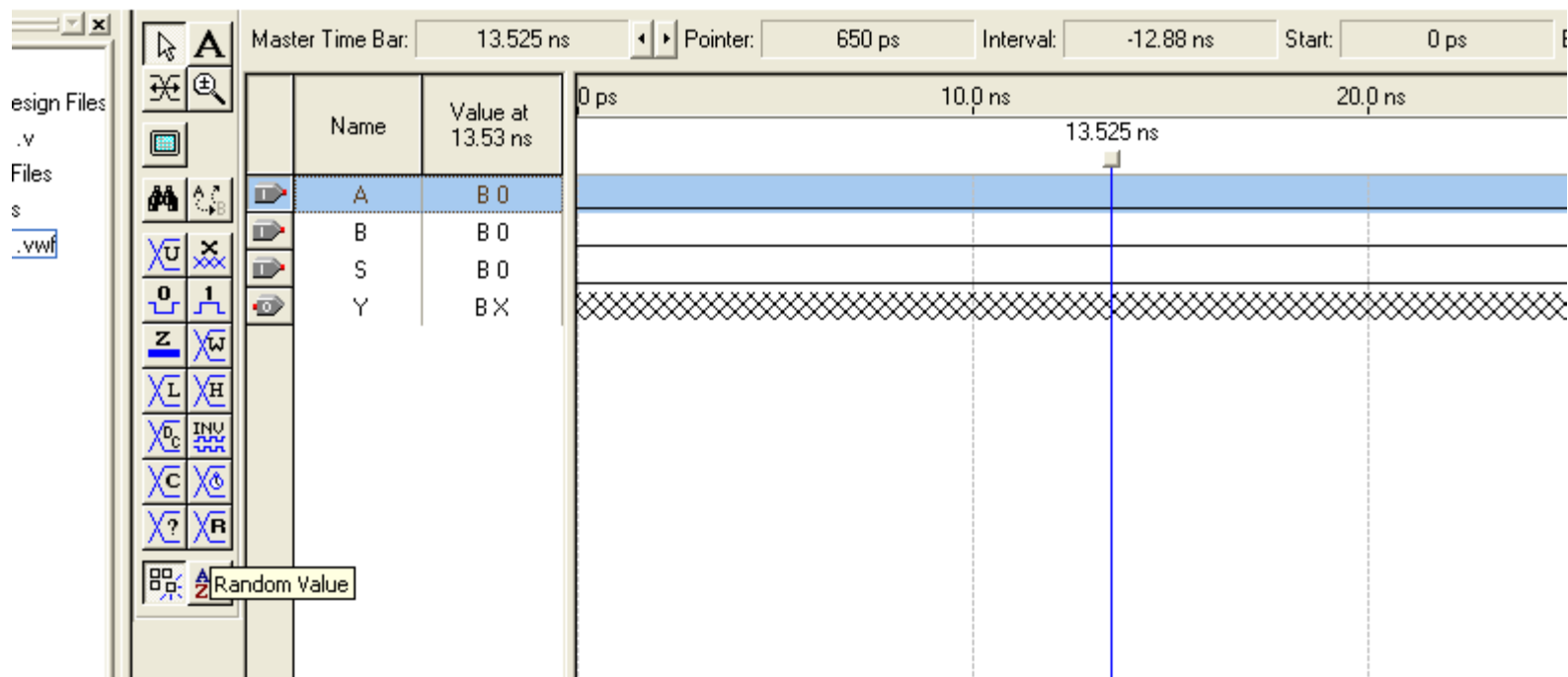
Cancel

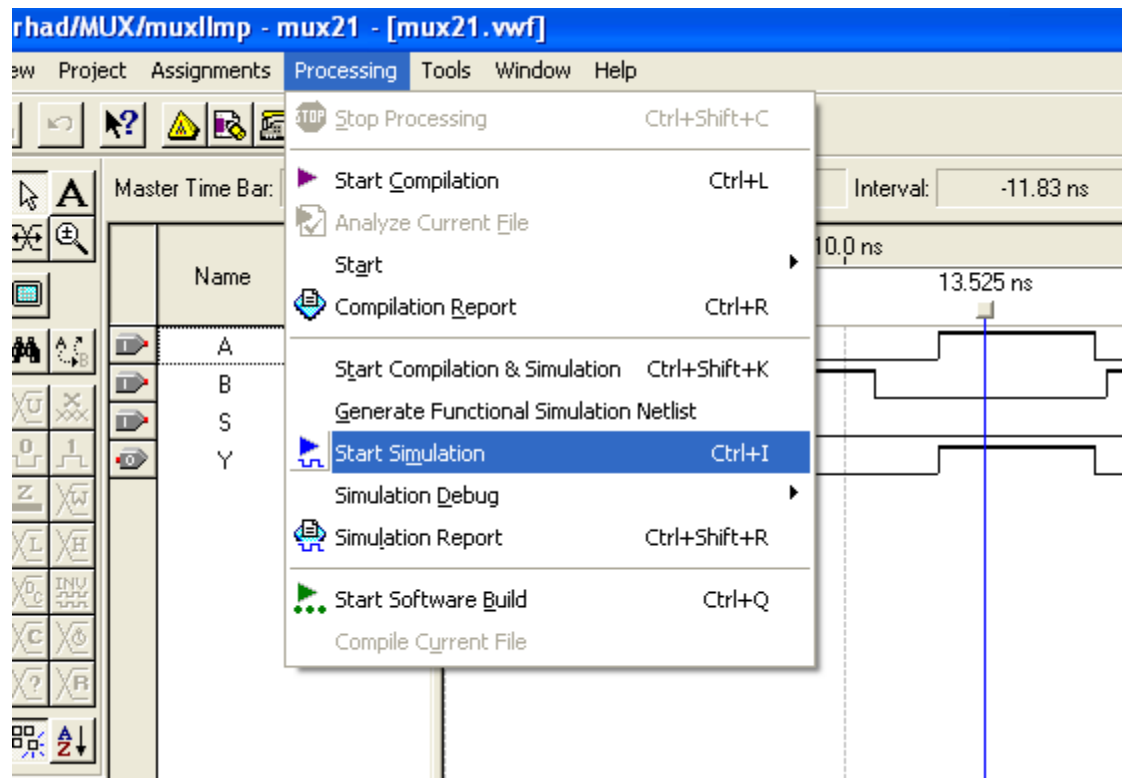
Node Finder...

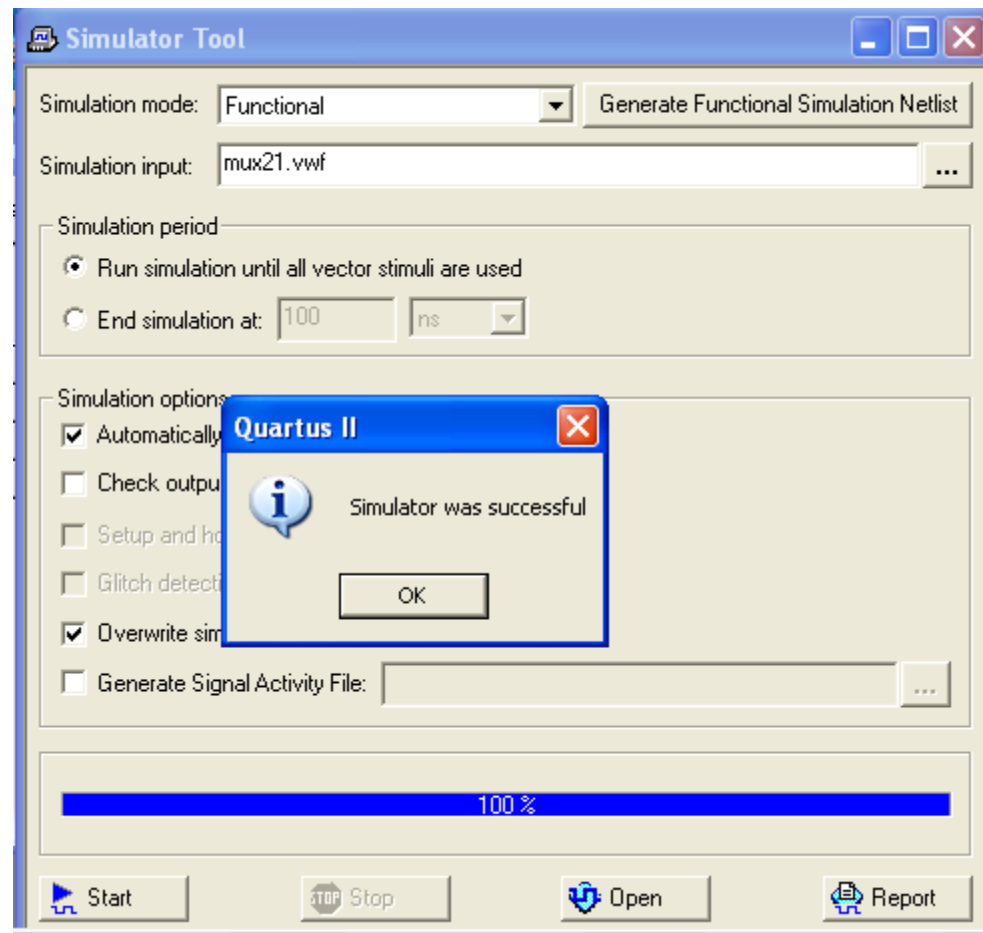


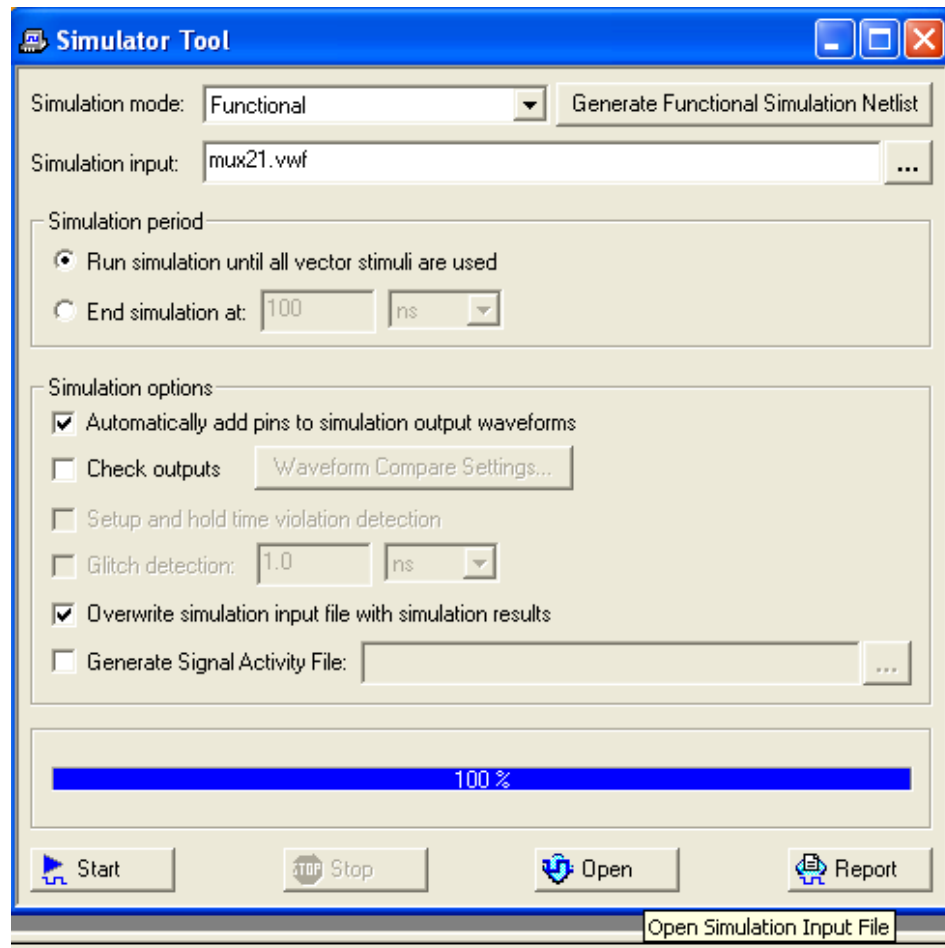


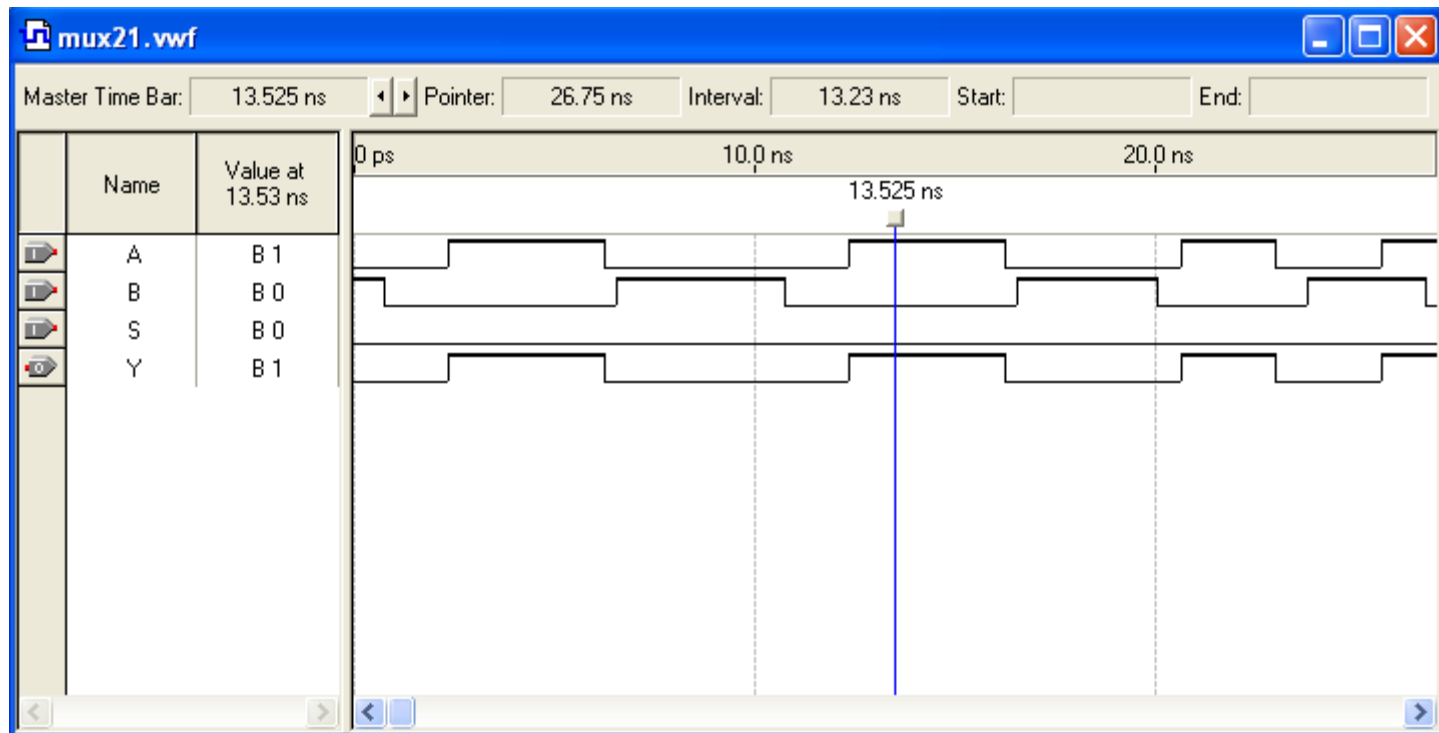












The End