

QUANTUM TUTORIAL

DEPTING LOGIC CIRCUIT MODELS AND SIMULATIONS WITH SPICE

Multisim is a schematic capture and simulation program for creating, simulating and testing digital circuits, and is the application program of the National Instruments "Circuit Design Suite", which also includes printed circuit board design tools and an interface to the EDA manufacturing platform.

It is suggested that you begin by taking a few minutes to read the short Multisim tutorial, which is presented in Chapter 2 of "Getting Started with the Circuit Design Suite", which can be accessed via

[Resources > Getting Started > National Instruments > Circuit Design Suite 12.0 > User Manuals > Getting Started](#)

This page aims to describe and explain all a digital logic circuit can:

1. Open Multisim and create a "Design".
2. Place a schematic diagram of the circuit components and interconnections.
3. Define digital test patterns to be applied to the circuit inputs to stimulate the circuit and connect digital outputs to the inputs to produce these patterns.
4. Connect the circuit outputs to one or more indicators to display the responses of the circuit to the test patterns.
5. Run the simulation and examine the results, saving and printing Multisim windows and test reports and other documents as needed.
6. Save the design.

Step 1. Open Multisim and create a Design

Multisim is opened from the Start Menu:

[Start Menu > All Programs > National Instruments > Circuit Design Suite 12.0 > Multisim 12.0 > Multisim](#)

This creates a blank design called "Design1", as illustrated in Figure 1. Note that the word "Design" appears in the menu bar **File/Design** (as to use the standard Windows Save dialog, shown in Figure 2). Navigate to the directory in which you want to save your design, enter the desired file name, and click the **Save** button. The default file extension for Multisim 12.0 design files is ".ms10".

Note: Create a separate directory for your files either on your network drive (N:) or the local workstation for storing your Multisim design and report files. This will ensure that (1) your files will not conflict with any file conflicts and (2) your Multisim files will not be mixed up with your other files. It is also a good idea to periodically make backup copies of your files on removable storage such as USB.

A previously created design can be opened via **File/Open**. In the dialog window, navigate to the directory in which the design is stored, select the file, and click the **Open** button.

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