Magic Tutorial #5: Multiple Windows

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(Updated by others, too.)

This tutorial corresponds to Magic version 6.

Tutorials to read first:

Magic Tutorial #1: Getting Started
Magic Tutorial #2: Basic Painting and Selection

Commands introduced in this tutorial:

:center :closewindow, :openwindow, :over, :specialopen, :under, :windowpositions

Macros introduced in this tutorial:

o, O, ‘‘,’’

1. Introduction

A window is a rectangular viewport. You can think of it as a magnifying glass that may be moved around on your chip. Magic initially displays a single window on the screen. This tutorial will show you how to create new windows and how to move old ones around. Multiple windows allow you to view several portions of a circuit at the same time, or even portions of different circuits.

Some operations are easier with multiple windows. For example, let’s say that you want to paint a very long line, say 3 units by 800 units. With a single window it is hard to align the box accurately since the magnification is not great enough. With multiple windows, one window can show the big picture while other windows show magnified views of the areas where the box needs to be aligned. The box can then be positioned accurately in these magnified windows.