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Using SpinCAD Designer 01 - Your First Patch

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Using SpinCAD Designer 01 - Your First Patch (#p1209)

by **Digital Larry** » Sat May 04, 2013 7:14 am

After installation you should have the SpinCAD icon on your desktop.

[Image](http://imageshack.us/photo/my-images/69/spincadicon.png/) (http://imageshack.us/photo/my-images/69/spincadicon.png/)

Double click on this icon to open SpinCAD Designer's design window. Go to the "Routing" menu and select "Output".

Image

You will now be dragging an "Output" block around the screen. Drag it to the lower section of the screen and left-click to drop it in place.

[Image](http://imageshack.us/photo/my-images/94/spincad03.png/) (http://imageshack.us/photo/my-images/94/spincad03.png/)

Similarly, get an "Input" block from "Routing - Input" menu and drop that near the top of the screen:

[Image](http://imageshack.us/photo/my-images/849/spincad04.png/) (http://imageshack.us/photo/my-images/849/spincad04.png/)

To make a connection

Now, left-click within one of the circles (I call this a "pin") on the top of the "Output" block. You will now see a blue connection line from this circle stretching to your mouse pointer. Drag it up to one of the lower pins on the "Input" block and click to make the attachment.

Note: the following notes apply only to releases prior to build 390. With build 390, I added the ability to start a connection on any pin, and the pins no longer change color.

Before you start a connection, the input pins will be colored magenta. After you start a connection, the input pins will turn black and all the output pins will turn magenta to show where you can end a connection.

[Image](http://imageshack.us/photo/my-images/855/spincad04a.png/) (http://imageshack.us/photo/my-images/855/spincad04a.png/)

The line turns black at this point. Do the same with the other connections.

[Image](http://imageshack.us/photo/my-images/849/spincad05.png/) (http://imageshack.us/photo/my-images/849/spincad05.png/)

This completes your first patch - a bypass. If this doesn't work, you should debug your setup before proceeding.

This program is very short - it only uses 4 instructions:

```
RDAX 20,1.0
WRAX 22,0.0
RDAX 21,1.0
WRAX 23,0.0
```

Save your patch

Go ahead and save this patch using the "File - Save" menu. That will save the SpinCAD Designer file.

To save the Spin ASM code corresponding to this SpinCAD Model, use the "File - Save as Spin ASM" menu item.

Important information

For audio signals, inputs are on the top of the block, and outputs are on the bottom.

For control signals, inputs are on the left of the block, and outputs are on the right. We'll talk about control signals in an upcoming tutorial.

To delete a connection

Right-click on an **input pin** to delete a connection to that pin. This will only work when you are not currently trying to make a connection (dragging a wire). You have to right click on the input pin, as there can only be one connection to an input pin. Output pins can have multiple connections.

The resource toolbar

Notice the horizontal bars on the bottom. The left bar shows how many of the 128 available instruction slots are currently being used by this patch. The center bar shows how many of the 32 available registers are currently being used, and the rightmost bar shows the amount of delay memory currently being used (out of 32768 bytes total).

Normally the bars are light blue if no resources (instructions, registers, or delay RAM) have been used by your patch. As resources are used up by added blocks, the bar will change to green, then orange as you start getting closer to running out of the resource, then red as you get really close to running out.

Image (<http://imageshack.us/photo/my-images/43/resourcestoolbar.jpg/>)

Images uploaded with [ImageShack.us](http://imageshack.us) (<http://imageshack.us>)

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