Title: New Auto Connect commands with 16.3

Product: OrCAD Capture and Allegro DE CIS

Summary: Since version 16.3 the new function Auto Connect exists in Capture, which is described in this Application Note.

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1 Auto Connect Two Points

Chose the Connect Two Points command with the icon or from the Task Menu: Place->Auto Wire -> Two Points

When the Auto Connect command is active, the mouse pointer gets a special cross: 

Short descriptions how to use the auto connect two points:

Select the first Pin

Select the second Pin

And the connection is done automatically
2 Auto Connect Multiple Points

Select several Pins and click the right mouse button:

Chose the command Connect:

All the pins are connected together in one click!

The Connect Multiple Points Command is also available as an Icon:

Or from the Menu:
3 Auto Connect to Bus

Select the Pins which you want to connect with a bus, click on the Right mouse button and choose: connect to Bus

A special mouse pointer appears, select the desired bus:

Enter the BusName:
And all the Pins are connected with the Bus!

The Connect Multiple Points Command is also available as an Icon:

Or from the Menu:
4 Errors

4.1 Auto Connection Failed

It is possible that you get an error message when you use "auto connect two points" like following:

[AUTOWIRE01] Auto Connection Failed between (2.400000,2.800000) and (2.400000,3.000000)

On following example the auto connect failed between de Source (V1) and the Resistor (R1).

![Diagram showing the connection failure between V1 and R1](image)

The connection fails because of the source zero Pin Length from the DC - Source. So you have to change the Pin Length, for example to short:

![Diagram showing the modified connection](image)

With this setting the auto connect works fine.