

Some explanation of the ERC errors after the c_sch.json conversion

ERC report (02/07/21 11:40:20, Encoding UTF8)

***** Sheet /

Do the simple thing first and add a “no_connect” to all unconnected pins, then rerun ERC.

```
[pin_not_connected]: Pin not connected Severity: error
  @ (449.58 mm, 243.84 mm): Symbol P8 [P8] Pin 10 [CD, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
  @ (449.58 mm, 248.92 mm): Symbol P8 [P8] Pin 12 [WP, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
  @ (429.26 mm, 137.16 mm): Symbol P10 [P10] Pin 11 [11, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
  @ (429.26 mm, 144.78 mm): Symbol P10 [P10] Pin 17 [17, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
  @ (429.26 mm, 147.32 mm): Symbol P10 [P10] Pin 19 [19, Passive, Line]
[lib_symbol_issues]: The current configuration does not include the library 'EasyEDA'. Severity:
warning
  @ (353.06 mm, 34.29 mm): Symbol R4 [R4]
[pin_not_connected]: Pin not connected Severity: error
  @ (111.76 mm, 20.32 mm): Symbol S1 [S1] Pin 1 [1, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
  @ (308.61 mm, 335.28 mm): Symbol U2.2 [U2.2] Pin 73 [NC, Passive, Line]
```

EasyEDA only as power as pin electric identification. Kicad requires power_in and power_out. The conversion makes all power pin into Kicad power_in. You have to manually set the appropriate pin to power_out.

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[power_pin_not_driven]: Input Power pin not driven by any Output Power pins Severity: error
  @ (88.90 mm, 290.83 mm): Symbol #PWR0156 [Powerflag_5Vplus] Pin 1 [Vusb, Power input, Line]
```

EasyEDA allows more than one local label on wire. Kicad can only handle one label, so it will select one of the labels and generate a warning. I have not investigated this in detail, so it is unclear if this will cause the “pin not connected” error when a label is deselected.

Current advise: find the ignored labels in the schematic and change them to text labels (blue) by selecting the label and right click for option “change to text”. This may require adding the correct label to some wires. Below we see the label SDIO_D0 being ignored. If this is not to your liking, you have to change the PC8 labels to text.

Note: Kicad seems OK with the label in the middle of the wire, leaving unconnected ends of the wire indicated with the small square.

```
[multiple_net_names]: Both PC8 and SDIO_D0 are attached to the same items; PC8 will be used in
the netlist Severity: warning
  @ (179.07 mm, 317.50 mm): Label 'PC8'
  @ (162.56 mm, 317.50 mm): Label 'SDIO_D0'
[pin_not_connected]: Pin not connected Severity: error
  @ (134.62 mm, 445.77 mm): Symbol P7 [P7] Pin 30 [30, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
  @ (115.57 mm, 417.83 mm): Symbol P7 [P7] Pin 7 [7, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
  @ (134.62 mm, 417.83 mm): Symbol P7 [P7] Pin 8 [8, Passive, Line]
[multiple_net_names]: Both KEY_1 and PC13 are attached to the same items; KEY_1 will be used in
the netlist Severity: warning
  @ (162.56 mm, 330.20 mm): Label 'KEY_1'
  @ (179.07 mm, 330.20 mm): Label 'PC13'
[multiple_net_names]: Both PC9 and SDIO_D1 are attached to the same items; PC9 will be used in
the netlist Severity: warning
  @ (179.07 mm, 320.04 mm): Label 'PC9'
  @ (162.56 mm, 320.04 mm): Label 'SDIO_D1'
[multiple_net_names]: Both PC12 and SDIO_CK are attached to the same items; PC12 will be used in
the netlist Severity: warning
  @ (179.07 mm, 327.66 mm): Label 'PC12'
  @ (162.56 mm, 327.66 mm): Label 'SDIO_CK'
[multiple_net_names]: Both PC11 and SDIO_D3 are attached to the same items; PC11 will be used in
the netlist Severity: warning
  @ (179.07 mm, 325.12 mm): Label 'PC11'
  @ (162.56 mm, 325.12 mm): Label 'SDIO_D3'
[multiple_net_names]: Both PC10 and SDIO_D2 are attached to the same items; PC10 will be used in
the netlist Severity: warning
  @ (179.07 mm, 322.58 mm): Label 'PC10'
  @ (162.56 mm, 322.58 mm): Label 'SDIO_D2'
[pin_not_connected]: Pin not connected Severity: error
  @ (217.17 mm, 144.78 mm): Symbol U3 [U3] Pin 7 [XI, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
  @ (217.17 mm, 147.32 mm): Symbol U3 [U3] Pin 8 [XO, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
  @ (242.57 mm, 147.32 mm): Symbol U3 [U3] Pin 9 [CTS#, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
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    @ (242.57 mm, 144.78 mm): Symbol U3 [U3] Pin 10 [DSR#, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
    @ (242.57 mm, 142.24 mm): Symbol U3 [U3] Pin 11 [RI#, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
    @ (242.57 mm, 139.70 mm): Symbol U3 [U3] Pin 12 [DCD#, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
    @ (242.57 mm, 132.08 mm): Symbol U3 [U3] Pin 15 [R232, Passive, Line]
[multiple_net_names]: Both PB12 and SPI2_CS are attached to the same items; PB12 will be used in
the netlist Severity: warning
    @ (179.07 mm, 279.40 mm): Label 'PB12'
    @ (160.02 mm, 279.40 mm): Label 'SPI2_CS'
[multiple_net_names]: Both PD2 and SDIO_CMD are attached to the same items; PD2 will be used in
the netlist Severity: warning
    @ (311.15 mm, 203.20 mm): Label 'PD2'
    @ (321.31 mm, 203.20 mm): Label 'SDIO_CMD'
[multiple_net_names]: Both DB6 and PE9 are attached to the same items; DB6 will be used in the
netlist Severity: warning
    @ (321.31 mm, 271.78 mm): Label 'DB6'
    @ (311.15 mm, 271.78 mm): Label 'PE9'
[multiple_net_names]: Both DB5 and PE8 are attached to the same items; DB5 will be used in the
netlist Severity: warning
    @ (321.31 mm, 269.24 mm): Label 'DB5'
    @ (311.15 mm, 269.24 mm): Label 'PE8'
[multiple_net_names]: Both DB4 and PE7 are attached to the same items; DB4 will be used in the
netlist Severity: warning
    @ (321.31 mm, 264.16 mm): Label 'DB4'
    @ (311.15 mm, 264.16 mm): Label 'PE7'
[multiple_net_names]: Both DB1 and PD15 are attached to the same items; DB1 will be used in the
netlist Severity: warning
    @ (321.31 mm, 238.76 mm): Label 'DB1'
    @ (311.15 mm, 238.76 mm): Label 'PD15'
[multiple_net_names]: Both DB0 and PD14 are attached to the same items; DB0 will be used in the
netlist Severity: warning
    @ (321.31 mm, 236.22 mm): Label 'DB0'
    @ (311.15 mm, 236.22 mm): Label 'PD14'
[multiple_net_names]: Both LED_2 and PD12 are attached to the same items; LED_2 will be used in
the netlist Severity: warning
    @ (321.31 mm, 231.14 mm): Label 'LED_2'
    @ (311.15 mm, 231.14 mm): Label 'PD12'
[multiple_net_names]: Both FSMC_A16 and PD11 are attached to the same items; FSMC_A16 will be
used in the netlist Severity: warning
    @ (321.31 mm, 228.60 mm): Label 'FSMC_A16'
    @ (311.15 mm, 228.60 mm): Label 'PD11'
[multiple_net_names]: Both FSMC_NE1 and PD7 are attached to the same items; FSMC_NE1 will be
used in the netlist Severity: warning
    @ (321.31 mm, 215.90 mm): Label 'FSMC_NE1'
    @ (311.15 mm, 215.90 mm): Label 'PD7'
[multiple_net_names]: Both FSMC_NWE and PD5 are attached to the same items; FSMC_NWE will be
used in the netlist Severity: warning
    @ (321.31 mm, 210.82 mm): Label 'FSMC_NWE'
    @ (311.15 mm, 210.82 mm): Label 'PD5'
[multiple_net_names]: Both FSMC_NOE and PD4 are attached to the same items; FSMC_NOE will be
used in the netlist Severity: warning
    @ (321.31 mm, 208.28 mm): Label 'FSMC_NOE'
    @ (311.15 mm, 208.28 mm): Label 'PD4'
[multiple_net_names]: Both KEY_2 and PD3 are attached to the same items; KEY_2 will be used in
the netlist Severity: warning
    @ (321.31 mm, 205.74 mm): Label 'KEY_2'
    @ (311.15 mm, 205.74 mm): Label 'PD3'
[multiple_net_names]: Both DB3 and PD1 are attached to the same items; DB3 will be used in the
netlist Severity: warning
    @ (321.31 mm, 200.66 mm): Label 'DB3'
    @ (311.15 mm, 200.66 mm): Label 'PD1'
[multiple_net_names]: Both DB2 and PD0 are attached to the same items; DB2 will be used in the
netlist Severity: warning
    @ (321.31 mm, 198.12 mm): Label 'DB2'
    @ (311.15 mm, 198.12 mm): Label 'PD0'
[multiple_net_names]: Both BOOT1 and PB2 are attached to the same items; BOOT1 will be used in
the netlist Severity: warning
    @ (160.02 mm, 251.46 mm): Label 'BOOT1'
    @ (179.07 mm, 251.46 mm): Label 'PB2'
[multiple_net_names]: Both JTCK-SWCLK and PA14 are attached to the same items; JTCK-SWCLK will
be used in the netlist Severity: warning
    @ (160.02 mm, 236.22 mm): Label 'JTCK-SWCLK'
    @ (179.07 mm, 236.22 mm): Label 'PA14'
[multiple_net_names]: Both JTMS-SWDIO and PA13 are attached to the same items; JTMS-SWDIO will
be used in the netlist Severity: warning

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    @(160.02 mm, 233.68 mm): Label 'JTMS-SWDIO'
    @(179.07 mm, 233.68 mm): Label 'PA13'
[power_pin_not_driven]: Input Power pin not driven by any Output Power pins Severity: error
    @(54.61 mm, 236.22 mm): Symbol U2.1 [U2.1] Pin 6 [VBAT, Power input, Line]
[power_pin_not_driven]: Input Power pin not driven by any Output Power pins Severity: error
    @(85.09 mm, 236.22 mm): Symbol U2.1 [U2.1] Pin 21 [VREF+, Power input, Line]
[power_pin_not_driven]: Input Power pin not driven by any Output Power pins Severity: error
    @(85.09 mm, 238.76 mm): Symbol U2.1 [U2.1] Pin 20 [VREF-, Power input, Line]
[multiple_net_names]: Both LED_1 and PB5 are attached to the same items; LED_1 will be used in
the netlist Severity: warning
    @(160.02 mm, 259.08 mm): Label 'LED_1'
    @(179.07 mm, 259.08 mm): Label 'PB5'
[multiple_net_names]: Both NJTRST and PB4 are attached to the same items; NJTRST will be used in
the netlist Severity: warning
    @(160.02 mm, 256.54 mm): Label 'NJTRST'
    @(179.07 mm, 256.54 mm): Label 'PB4'
[multiple_net_names]: Both JTDO and PB3 are attached to the same items; JTDO will be used in the
netlist Severity: warning
    @(160.02 mm, 254.00 mm): Label 'JTDO'
    @(179.07 mm, 254.00 mm): Label 'PB3'
[multiple_net_names]: Both JTDI and PA15 are attached to the same items; JTDI will be used in
the netlist Severity: warning
    @(160.02 mm, 238.76 mm): Label 'JTDI'
    @(179.07 mm, 238.76 mm): Label 'PA15'
[multiple_net_names]: Both PA9 and USART1_TXD are attached to the same items; PA9 will be used
in the netlist Severity: warning
    @(179.07 mm, 223.52 mm): Label 'PA9'
    @(160.02 mm, 223.52 mm): Label 'USART1_TXD'
[multiple_net_names]: Both PA12 and USB_D+ are attached to the same items; PA12 will be used in
the netlist Severity: warning
    @(179.07 mm, 231.14 mm): Label 'PA12'
    @(160.02 mm, 231.14 mm): Label 'USB_D+'
[multiple_net_names]: Both PA11 and USB_D- are attached to the same items; PA11 will be used in
the netlist Severity: warning
    @(179.07 mm, 228.60 mm): Label 'PA11'
    @(160.02 mm, 228.60 mm): Label 'USB_D-'
[multiple_net_names]: Both PA10 and USART1_RXD are attached to the same items; PA10 will be used
in the netlist Severity: warning
    @(179.07 mm, 226.06 mm): Label 'PA10'
    @(160.02 mm, 226.06 mm): Label 'USART1_RXD'
[multiple_net_names]: Both PA7 and SPI1_MOSI are attached to the same items; PA7 will be used in
the netlist Severity: warning
    @(179.07 mm, 215.90 mm): Label 'PA7'
    @(160.02 mm, 215.90 mm): Label 'SPI1_MOSI'
[multiple_net_names]: Both PA6 and SPI1_MISO are attached to the same items; PA6 will be used in
the netlist Severity: warning
    @(179.07 mm, 213.36 mm): Label 'PA6'
    @(160.02 mm, 213.36 mm): Label 'SPI1_MISO'
[multiple_net_names]: Both PA5 and SPI1_SCK are attached to the same items; PA5 will be used in
the netlist Severity: warning
    @(179.07 mm, 210.82 mm): Label 'PA5'
    @(160.02 mm, 210.82 mm): Label 'SPI1_SCK'
[multiple_net_names]: Both PA4 and SPI1_CS are attached to the same items; PA4 will be used in
the netlist Severity: warning
    @(179.07 mm, 208.28 mm): Label 'PA4'
    @(160.02 mm, 208.28 mm): Label 'SPI1_CS'
[multiple_net_names]: Both PA0 and WKUP are attached to the same items; PA0 will be used in the
netlist Severity: warning
    @(179.07 mm, 198.12 mm): Label 'PA0'
    @(160.02 mm, 198.12 mm): Label 'WKUP'
[pin_not_connected]: Pin not connected Severity: error
    @(111.76 mm, 30.48 mm): Symbol S1 [S1] Pin 6 [6, Passive, Line]
[pin_not_connected]: Pin not connected Severity: error
    @(34.29 mm, 71.12 mm): Symbol P2 [P2] Pin 4 [ID, Passive, Line]
[power_pin_not_driven]: Input Power pin not driven by any Output Power pins Severity: error
    @(44.45 mm, 73.66 mm): Symbol #PWR0161 [Powerflag_$GND] Pin 1 [GND, Power input, Line]
[pin_not_connected]: Pin not connected Severity: error
    @(34.29 mm, 30.48 mm): Symbol P1 [P1] Pin 4 [ID, Passive, Line]

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Some items do not have the correct annotation. Run annotation and rerun ERC.

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[unannotated]: Item not annotated: RESET?
Severity: error
    @(33.02 mm, 138.43 mm): Symbol RESET [RESET]

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** ERC messages: 64 Errors 26 Warnings 38