Write Netlist for Schematics

To run this script

Select **Scripts > Netlist >Netlist_AWR_Schematic** from the Menus.

Or, in versions that support the script, you can run the utility directly from this page using this button.

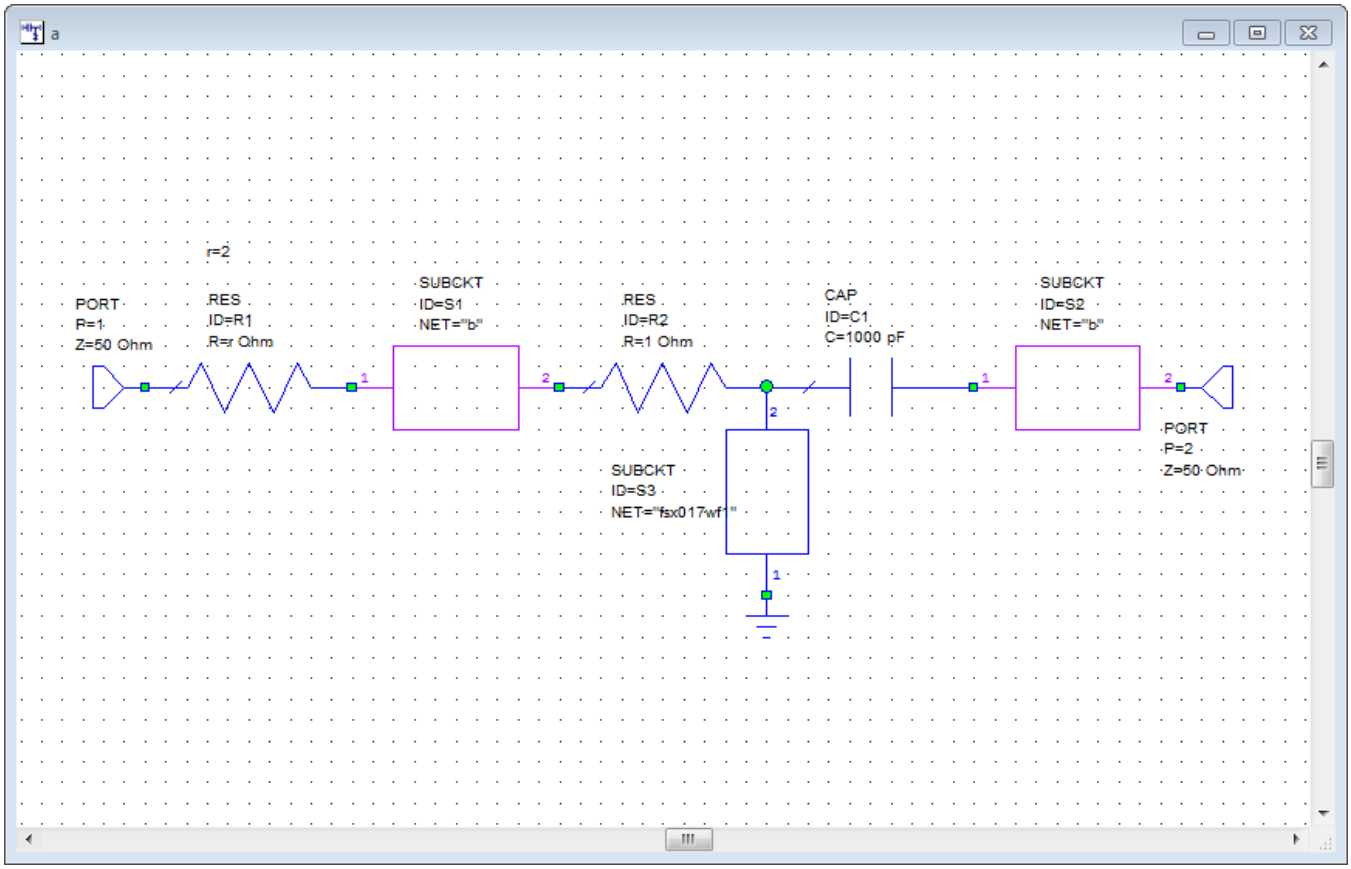
Run Utility

Description

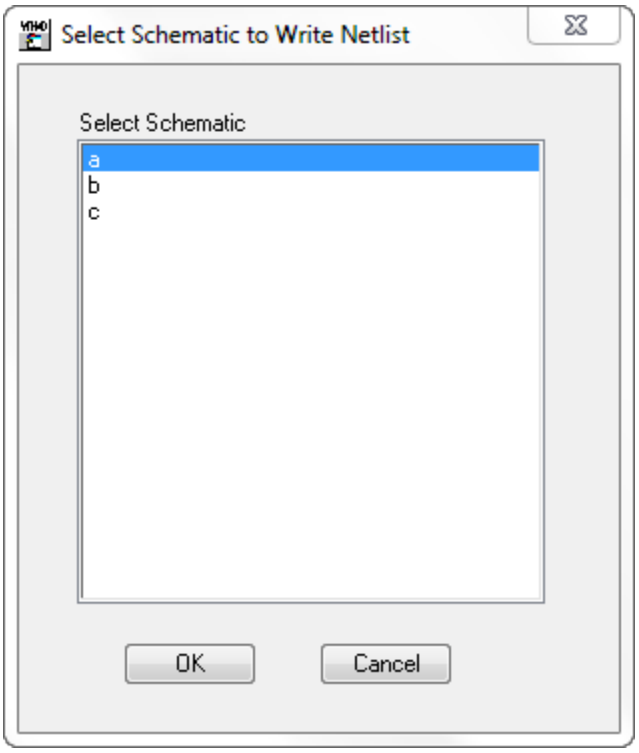
This script creates a netlist file and a log file from the schematic picked by user. AWR did not write this script for any specific application, it is just a general purpose script.

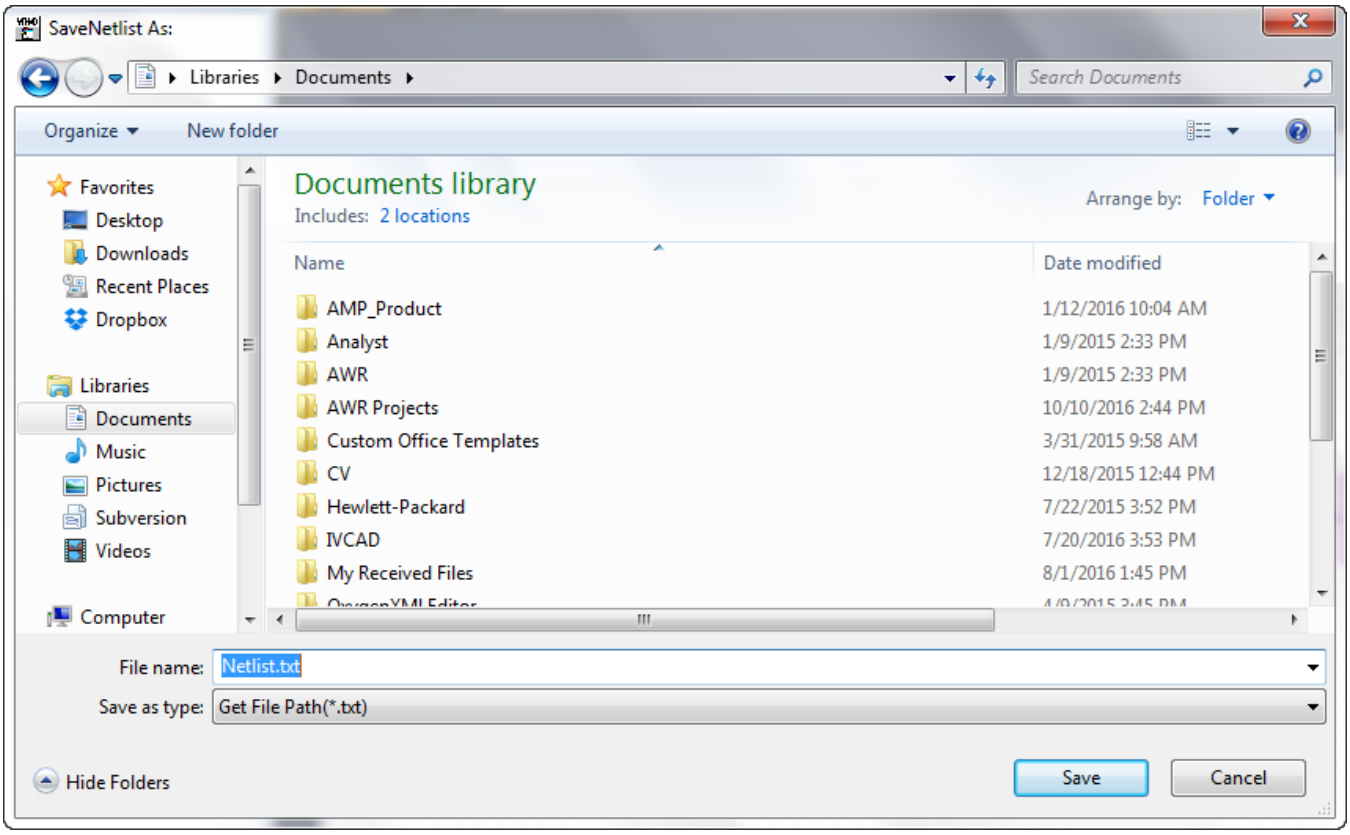
Note: Subcircuits that are EM structures or Data Files are written in the netlist but a subcircuit is not created for them. A warning is written into the netlist.

Here is example of a schematic with three subcircuits, one is data file and the other two are schematics:

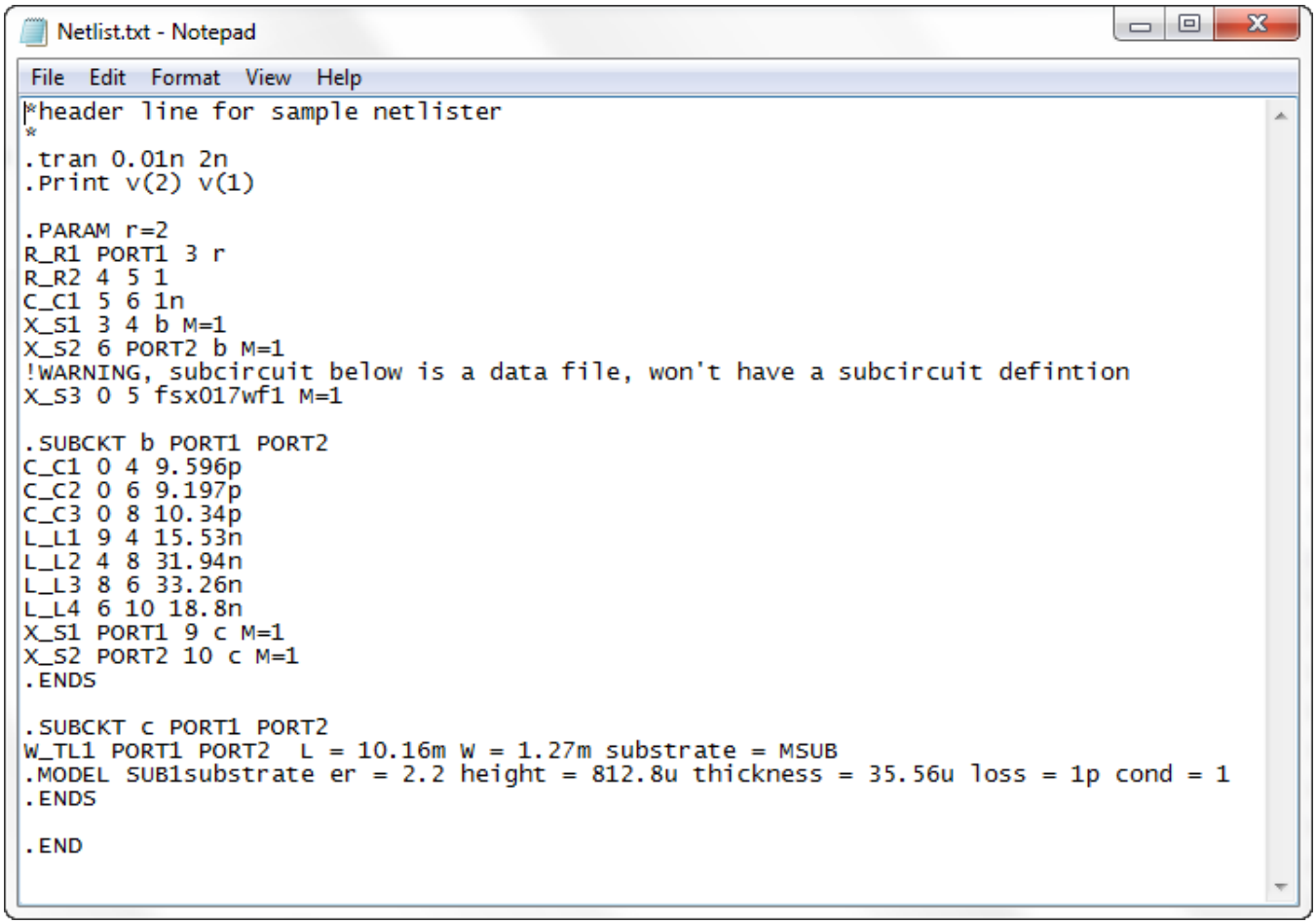


After running the script, the user will pick the schematic and location to save the resulting netlist file:





Here is what resulting netlist will look like. Notice the warning message because of datafile subcircuit.


Netlist.txt - Notepad
File Edit Format View Help
*header line for sample netlister
*
.tran 0.01n 2n
.Print v(2) v(1)
.PARAM r=2
R_R1 PORT1 3 r
R_R2 4 5 1
C_C1 5 6 1n
X_S1 3 4 b M=1
X_S2 6 PORT2 b M=1
!WARNING, subcircuit below is a data file, won't have a subcircuit defintion
X_S3 0 5 fsx017wf1 M=1
.SUBCKT b PORT1 PORT2
C_C1 0 4 9.596p
C_C2 0 6 9.197p
C_C3 0 8 10.34p
L_L1 9 4 15.53n
L_L2 4 8 31.94n
L_L3 8 6 33.26n
L_L4 6 10 18.8n
X_S1 PORT1 9 c M=1
X_S2 PORT2 10 c M=1
.ENDS
.SUBCKT c PORT1 PORT2
W_TL1 PORT1 PORT2 L = 10.16m W = 1.27m substrate = MSUB
.MODEL SUB1substrate er = 2.2 height = 812.8u thickness = 35.56u loss = 1p cond = 1
.ENDS
.END