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1 ECE2101L Lab7 Part B2: Measuring INPUT impedance of a black box
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3
4 V1 1 0 AC 5 0
5 * AC voltage source with magnitude of 5V and phase of 0
6 * with node 1 as + terminal and node 0 (ground) at - terminal
7
8 R0 1 2 130
9 * Resistor 0 from node 1 to node 2 with 130 ohm
10
11 R1 2 3 51
12 * Resistor 1 from node 2 to node 3 with 51 ohm
13
14 R2 3 0 620
15 * Resistor 2 from node 3 to node 0 (ground) with 620 ohm
16
17 C0 3 0 33u
18 * Capacitor 0 from node 3 to node 0 (ground) with 33 microFarad
19 * u denotes micro
20
21 .AC LIN 1 60 60
22 * perform AC analysis with one frequency value (from 60 Hz to 60 Hz)
23
24 .PRINT AC v(2)
25 * Print the voltage at node 2, relative to ground
26
27 .PRINT AC i(R0)
28 * Print the current flowing through R0
29
30 .END
31
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