

Testing a group of functions that can model different states of a circuit, like the DC-equivalent.

```
clc; clear;
path = 'Circuits/BJT1.txt';
circuit = Circuit(path);
circuit.get_netlist
```

```
ans =
    'Vcc 4 0 DC Vcc
    Vs 1 0 AC Vs
    Rc 4 5 Rc
    R1 4 3 R1
    R2 3 0 R2
    Rs 1 2 Rs
    Re 6 0 Re
    Cs 2 3 Cs
    Q1 3 5 6 100 R_bb_Q1 R_cc_Q1 R_ee_Q1
    '
```

```
circuit.num_nodes, circuit.num_elements
```

```
ans = 6
ans = 9
```

```
ELAB.DC_eq(circuit)
circuit.get_netlist
```

```
ans =
    'Vcc 4 0 DC Vcc
    Rc 4 5 Rc
    R1 4 3 R1
    R2 3 0 R2
    Re 6 0 Re
    Q1 3 5 6 100 R_bb_Q1 R_cc_Q1 R_ee_Q1
    '
```

```
circuit.num_nodes, circuit.num_elements
```

```
ans = 4
ans = 6
```