Computer Studies ngspice

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March 2020

1   ngspice
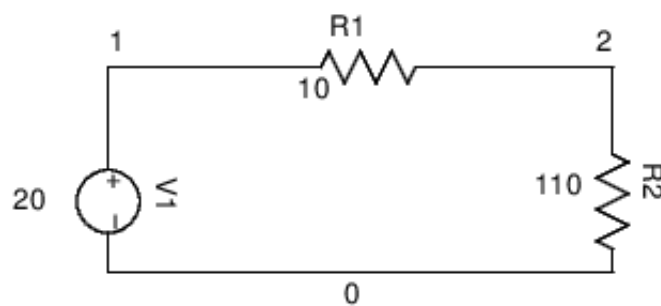


```
                          user@epk428-8: ~/RTR108                    ×

File  Edit  View  Search  Terminal  Help
******
ngspice 1 -> tran 5 1
Error: there aren't any circuits loaded.
ngspice 1 -> source 01.net

Circuit: * spice netlister for gnetlist

ngspice 1 -> tran 5 1
Doing analysis at TEMP = 27.000000 and TNOM = 27.000000


Initial Transient Solution
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Node                          Voltage
----                          -------
2                             18.3333
1                                  20
v1#branch                     -0.166667


No. of Data Rows : 59
ngspice 1 -> █
```
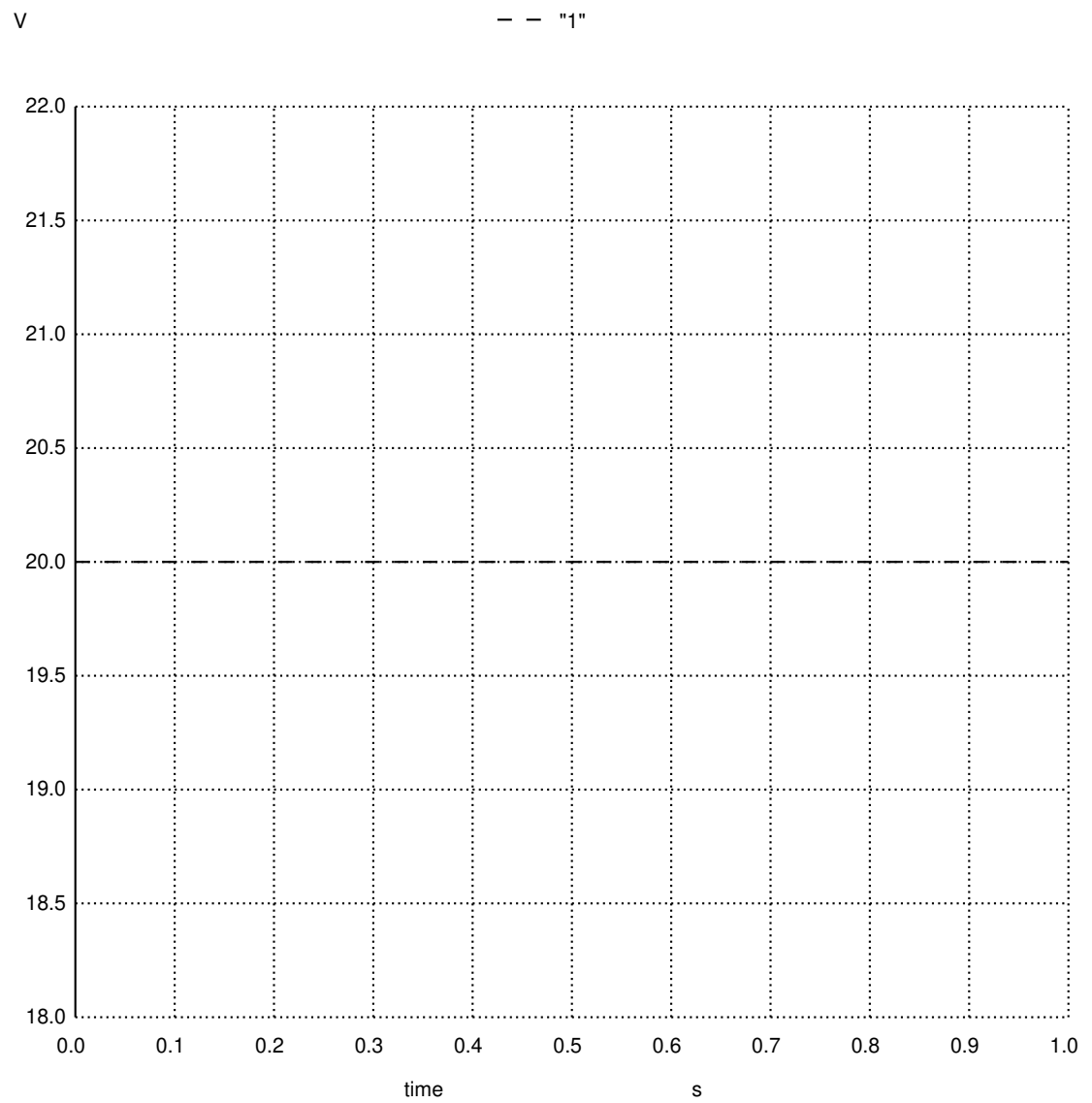

* Spice netlister for gnetlist

```
R2 2 0 110
R1 1 2 10
V1 1 0 20
.END
```

2 Plot "1"

V   − − "1"

```
22.0
21.5
21.0
20.5
20.0  ·−·−·−·−·−·−·−·−·−·−·−·−·−·−·−·−·−·−·−·−·−·
19.5
19.0
18.5
18.0
      0.0  0.1  0.2  0.3  0.4  0.5  0.6  0.7  0.8  0.9  1.0
                        time                    s
```

3   Plot "2"

V   − − "2"