PSPICE
(2.Transient Analysis)
for
Network Analysis & Lab

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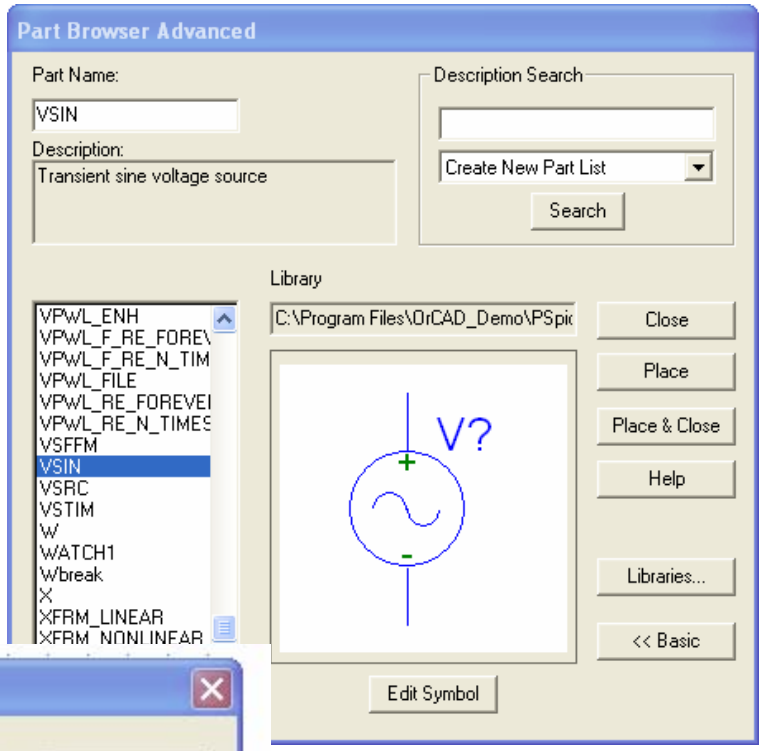
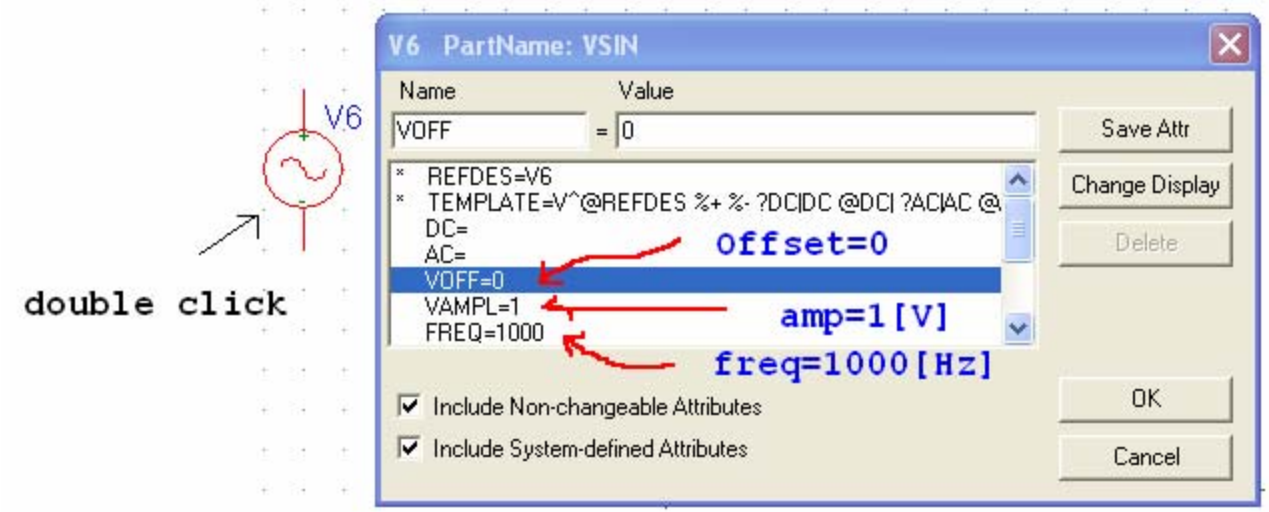
Howard University

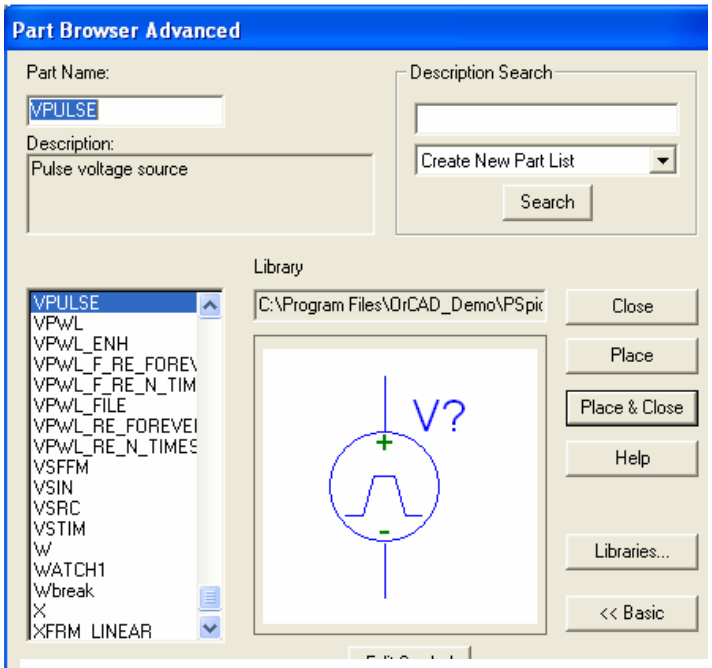
Sinusoidal Source: VSIN

- Sinusoidal source placement: VSIN
- Amplitude and Frequency Setting
- Don't forget to set VOFF=0

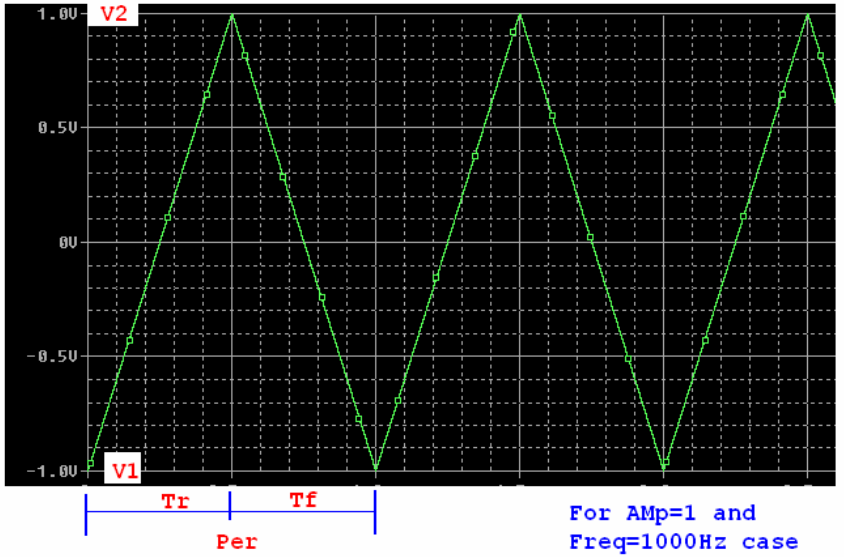




Triangular Source: VPULSE

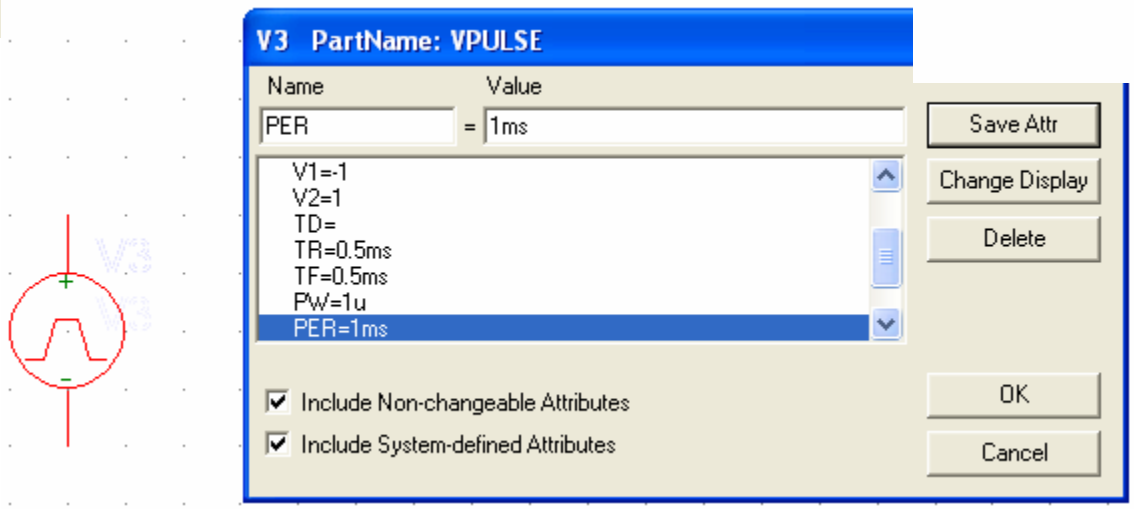


Vpulse

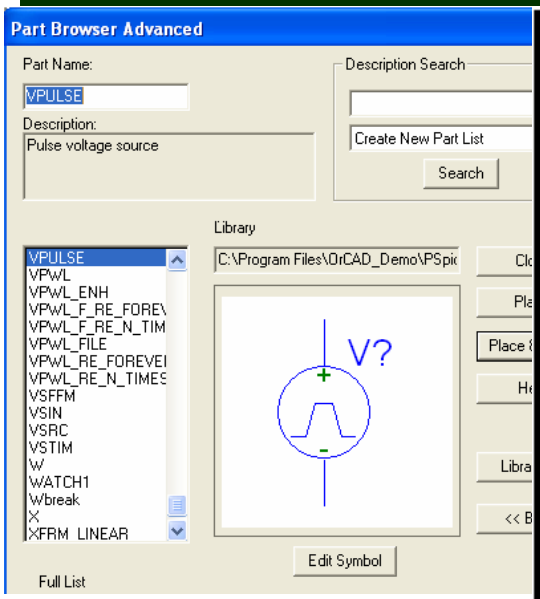


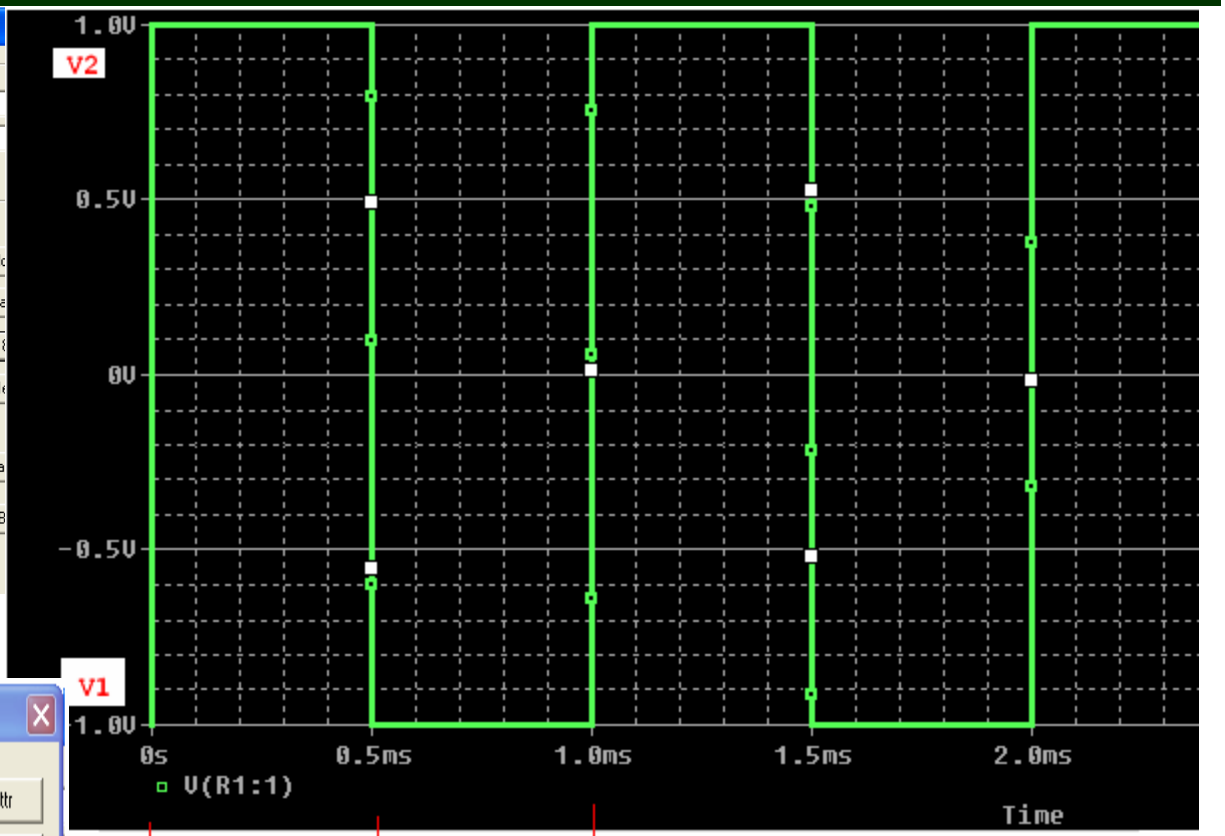
For AMp=1 and Freq=1000Hz case

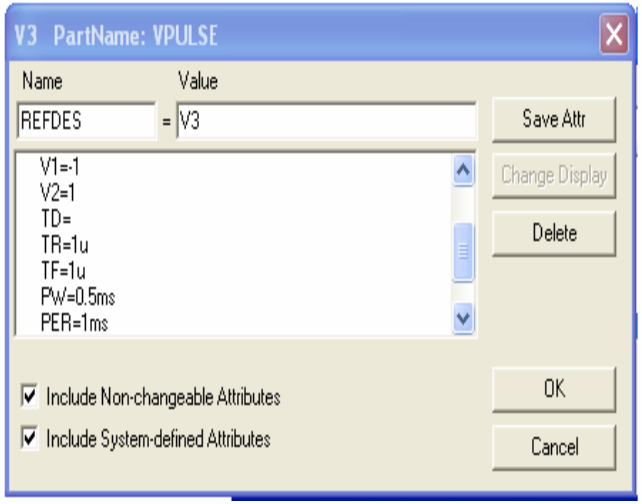
V1 : lowest value	V1 = -1
V2 : highest value	V2 = 1
Tr : rising time	Tr = 0.5ms
Tf : falling tim	Tf = 0.5ms
Pw : Pulse width	Pw = 1us (actually 0)
Per: Period	Per= 1ms



Square Source: VPULSE





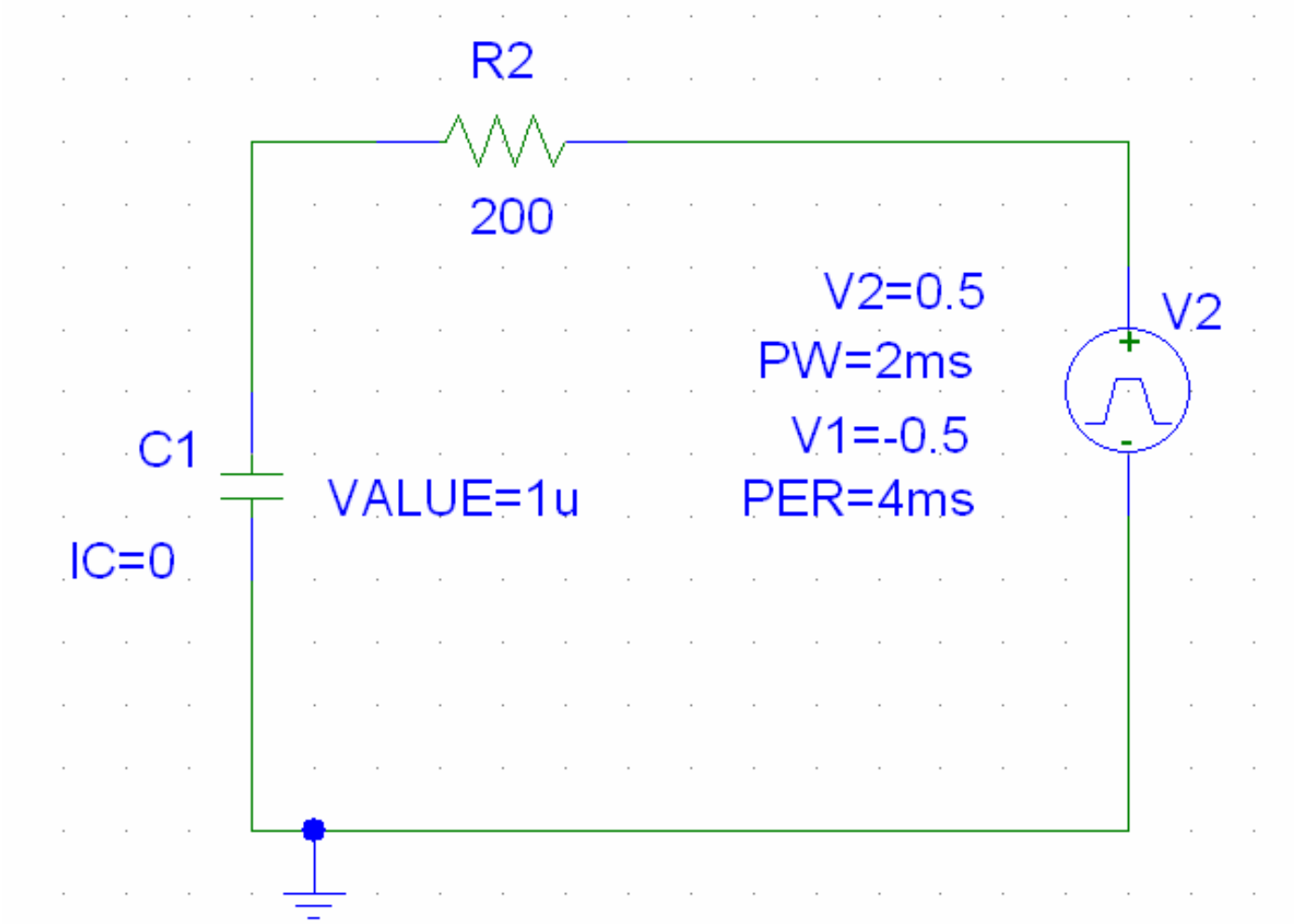


V1 : lowest value
V2 : highest value
Tr : rising time
Tf : falling tim
Pw : Pulse width
Per: Period

For AMp=1 and Freq=1000Hz case

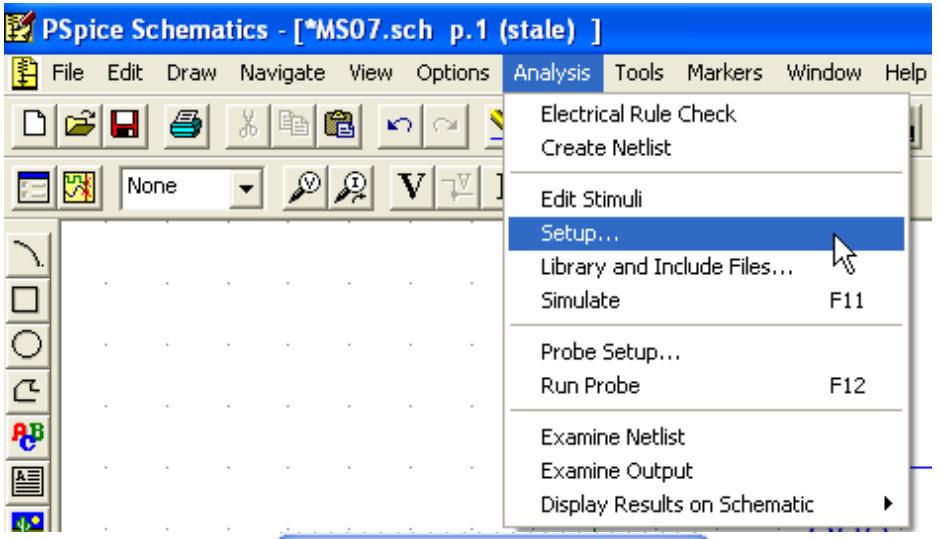
V1 = -1
V2 = 1
Tr = 1u (actually 0)
Tf = 1u (actually 0)
Pw = 0.5 ms
Per= 1 ms

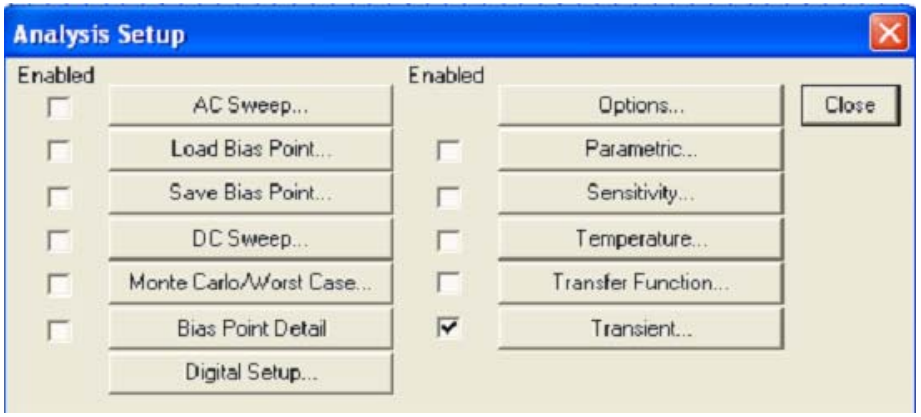
RC Circuit Example

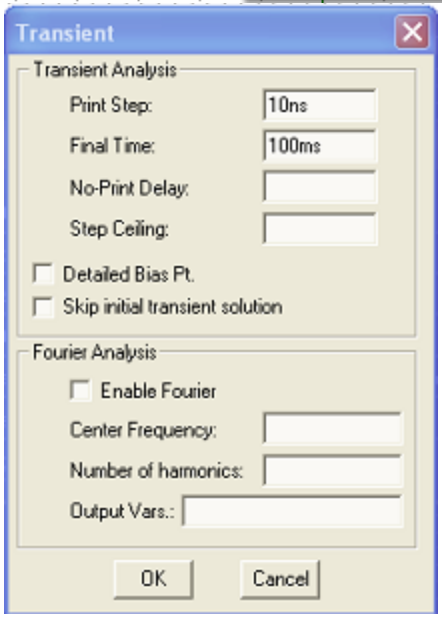


Transient Analysis: Set up

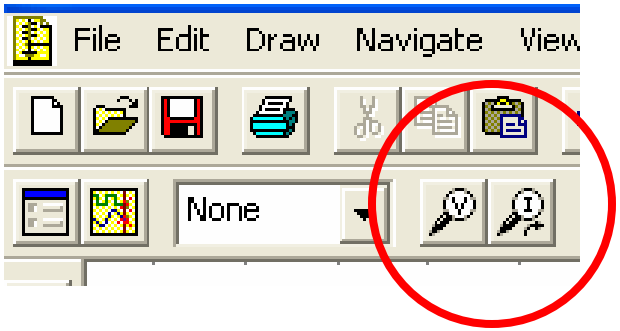
- Menu>Analysis>Setup
- Click on the Transient tab
- Print Step 10ns
- Final Time 10ms

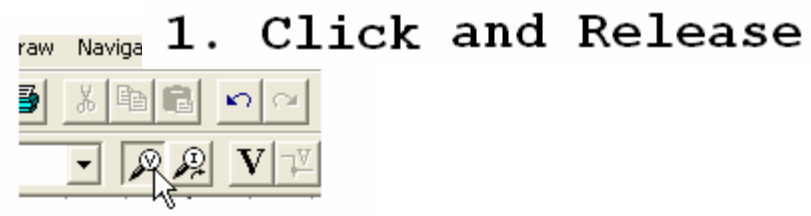


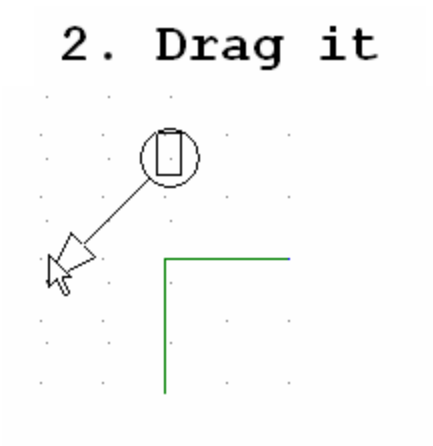


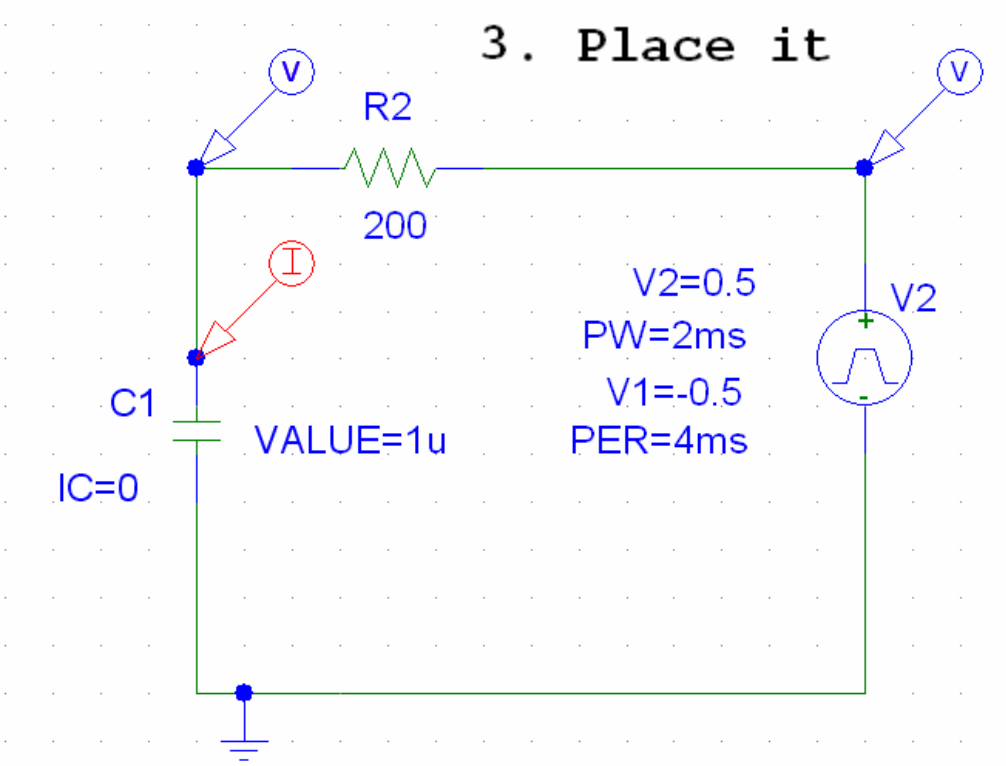


Transient Analysis: V & I Markers

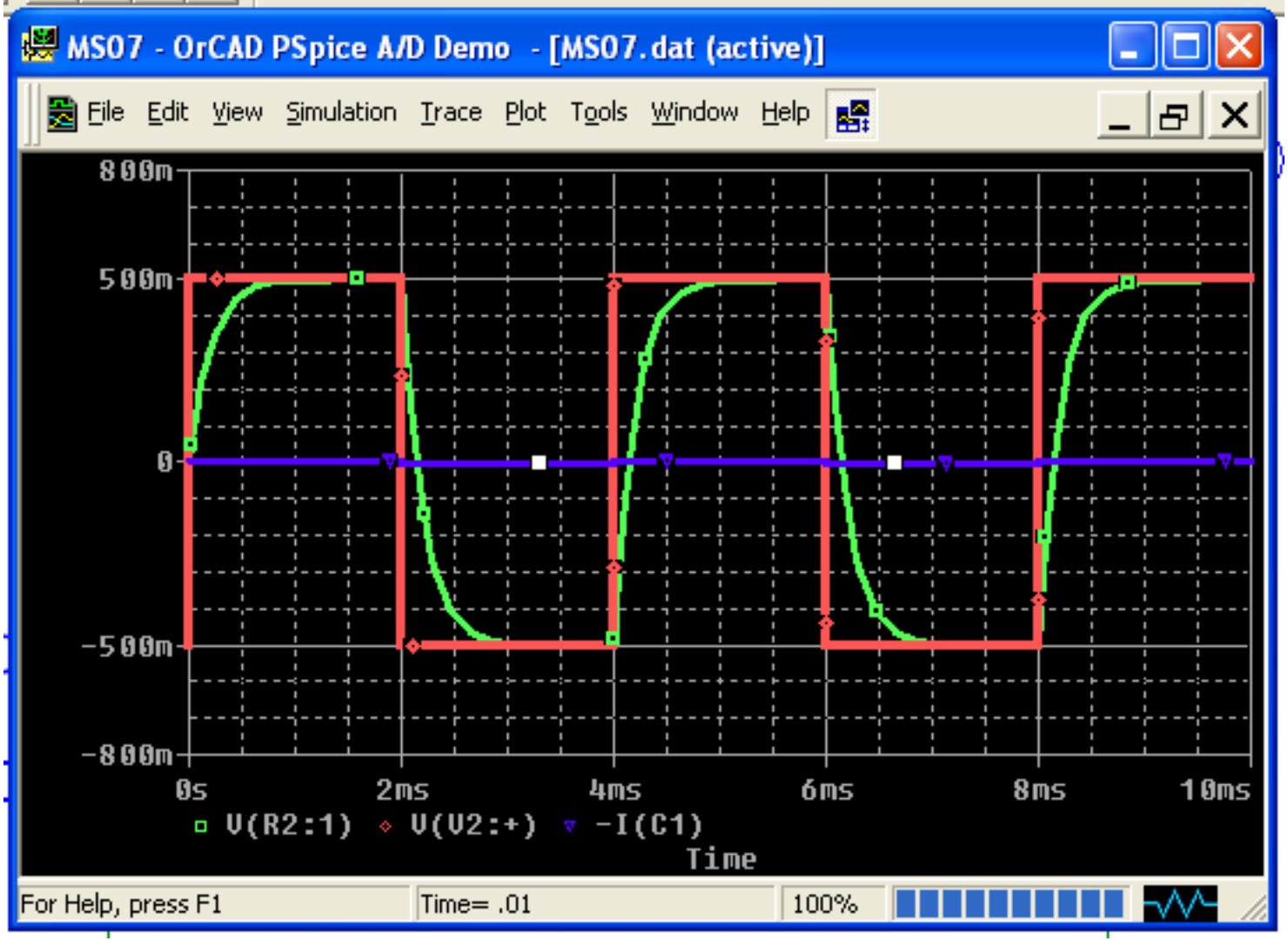








Simulate it


MS07 - OrCAD PSpice A/D Demo - [MS07.dat (active)]
File Edit View Simulation Trace Plot Tools Window Help
800m
500m
0
-500m
-800m
0s
2ms
4ms
6ms
8ms
10ms
V(R2:1) V(V2:+) -I(C1)
Time
For Help, press F1
Time= .01
100%