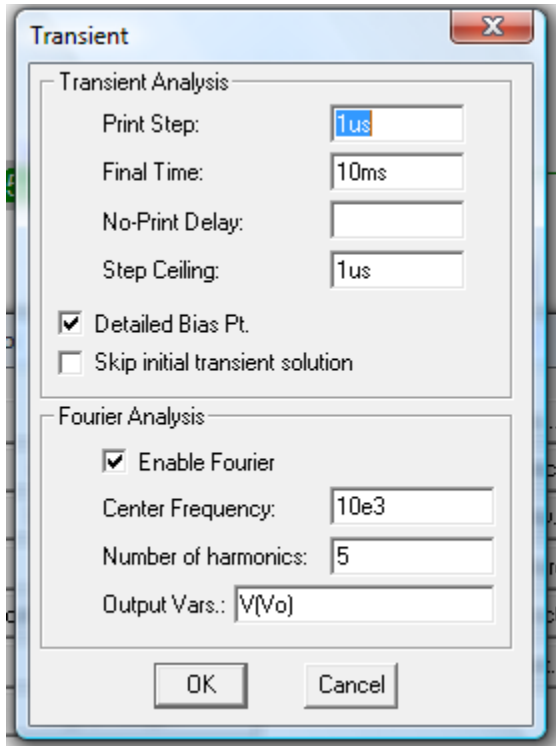


# PSpice Hints for Project

## *PSpice Transient and Fourier Analysis Settings*

In the schematic window:

Analysis -> Setup -> Transient



Print Step = 1us      This is the time between points in the output data file if you print the waveform out.

Final Time = 10ms      I use 100 cycles to let initial transients die out and get an accurate frequency spectrum

Step Ceiling = 1us      This forces the maximum simulation time step to this value. A good number to use is 100points per cycle. With a 10kHz input, this is a print step of 1us.

Center Frequency = 10e3      The fundamental frequency used in the Fourier Analysis. For a linear amplifier, set this to your input source (10kHz).

Number of harmonics = 5      The number of harmonics used in the Fourier Analysis. Use 5 or more.

Output Vars = Your output waveform

## ***Viewing PSpice Output File***

In "results" window  
View -> Output File

## ***Example of Power Dissipation Output***

TOTAL POWER DISSIPATION 3.95E-04 WATTS

## ***Example of Fourier Analysis Output***

FOURIER COMPONENTS OF TRANSIENT RESPONSE V(Vo)

DC COMPONENT = -1.817060E-05

HARMONIC NO	FREQUENCY (HZ)	FOURIER COMPONENT	NORMALIZED COMPONENT	PHASE (DEG)	NORMALIZED PHASE (DEG)
1	1.000E+04	2.273E-02	1.000E+00	1.795E+02	0.000E+00
2	2.000E+04	1.462E-05	6.433E-04	2.901E+01	-3.301E+02
3	3.000E+04	1.164E-05	5.121E-04	1.718E+02	-3.669E+02
4	4.000E+04	1.168E-05	5.139E-04	2.415E+01	-6.940E+02
5	5.000E+04	1.084E-05	4.771E-04	-1.235E+02	-1.021E+03

TOTAL HARMONIC DISTORTION = 1.080592E-01 PERCENT