`vco_test.sqproj`

vmin=1.0
vmax=4.0
fmin=0.8M
fmax=2M
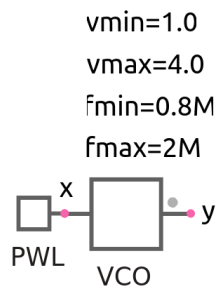

The purpose of the simulation set-up shown in the figure is to demonstrate the operation of a voltage-controlled oscillator (VCO) element. The VCO function is implemented as a general element (`vco.gce`), and its input and output are general variables (rather than voltages). The input to the VCO is generated using a piecewise-linear source.

Exercise Set

1. Run the simulation. Plot x and y versus time, and observe how the frequency of $y(t)$ is controlled by the input signal $x(t)$.