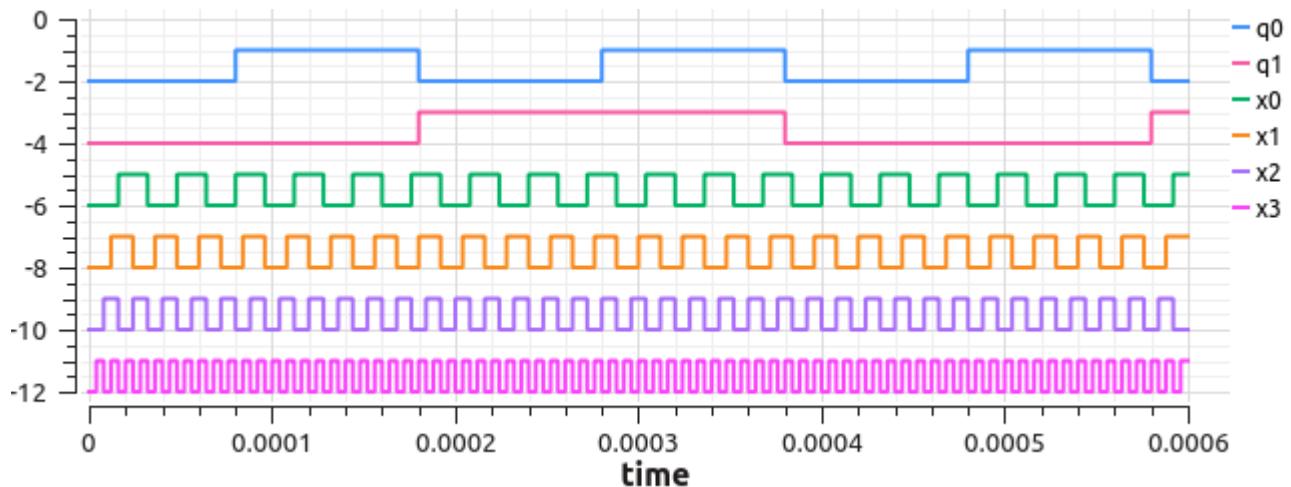
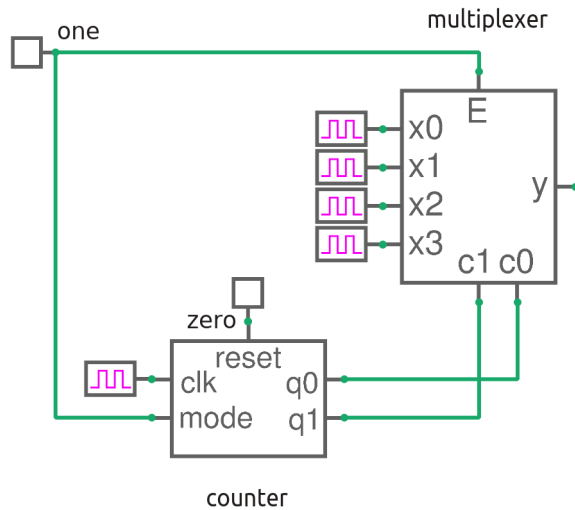


mux_test_1.sqproj



The purpose of this simulation exercise is to understand the operation of a 4-to-1 multiplexer. A counter is used to change the Select bits in the sequence 00, 01, 10, 11, 00, ... (see figure). The inputs to the demultiplexer are square waves of different frequencies, as shown in the figure.

(Note that the y -axis values vary between 0 and 1 in reality; for convenience, an offset has been used for the waveforms in the above plot.)

Exercise Set

1. Plot (on paper) the expected output y versus time.
2. Compare your plot with simulation results.