

FlowChart For SawTooth Wave

PIC Activity 6

Flowchart for Sawtooth wave

- Step 1 • Configure and initialize ANSELA, TRISA, DAC1DATL.
- Step 4 • Increment DAC1DATL by 1. DAC1DATL will automatically Reset to zero after 255. Each DAC1DATL increment represents Step of $\approx 20\text{mV}$.

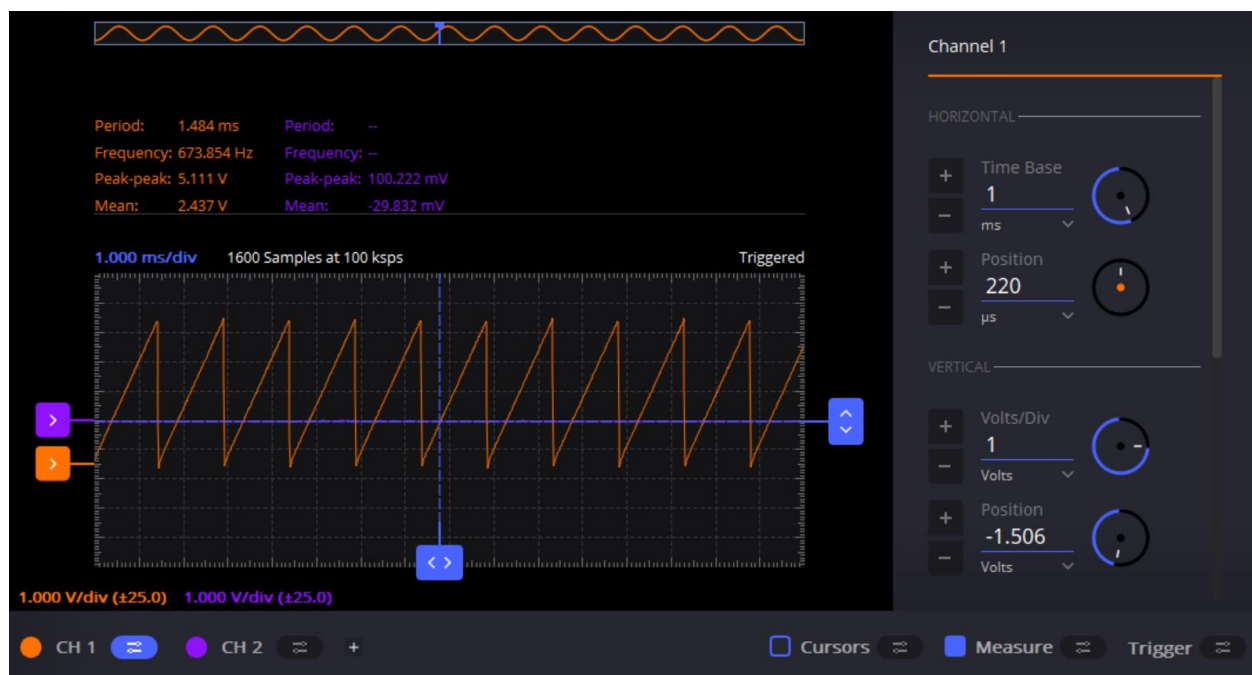
FLOW CHART FOR TRIANGLE WAVE

PIC Activity 6

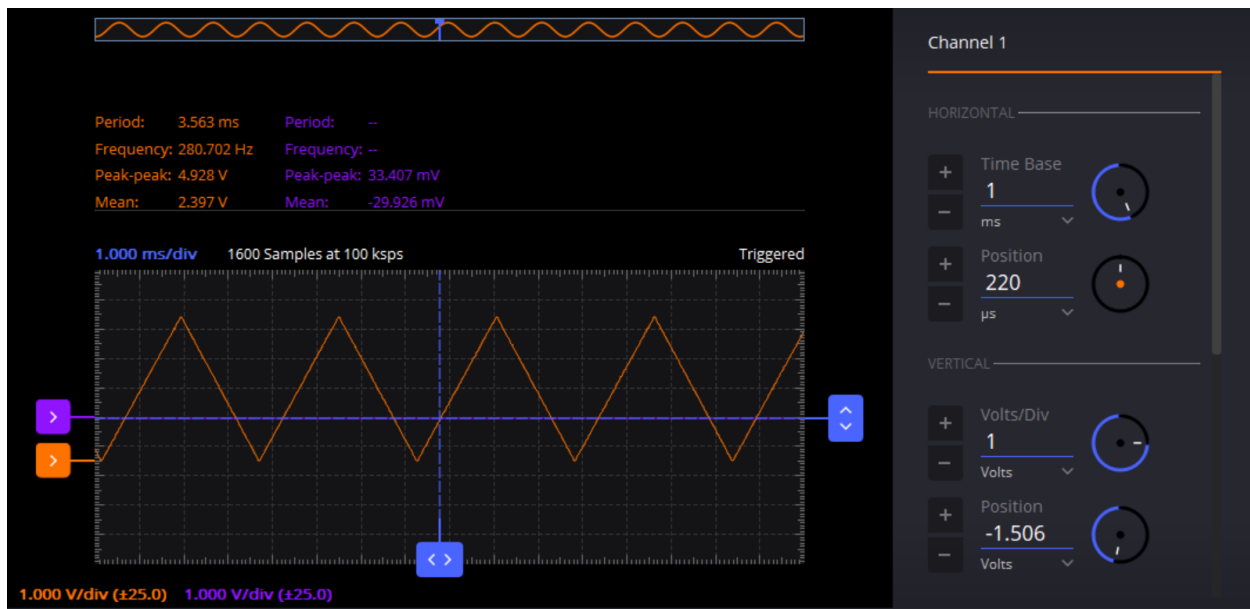
- Step 1 • Configure and initialize ANSELA, TRISA, DAC1DATL.
- Step 2 • Initialize a boolean variable in UserApp and Set it to be true.
- Step 3 • Set the boolean to true when DAC1DATL reaches zero and false when it reaches 255.
- Step 4 • Increment DAC1DATL when our boolean variable True. Decrement when its false.

Screenshots of our progress

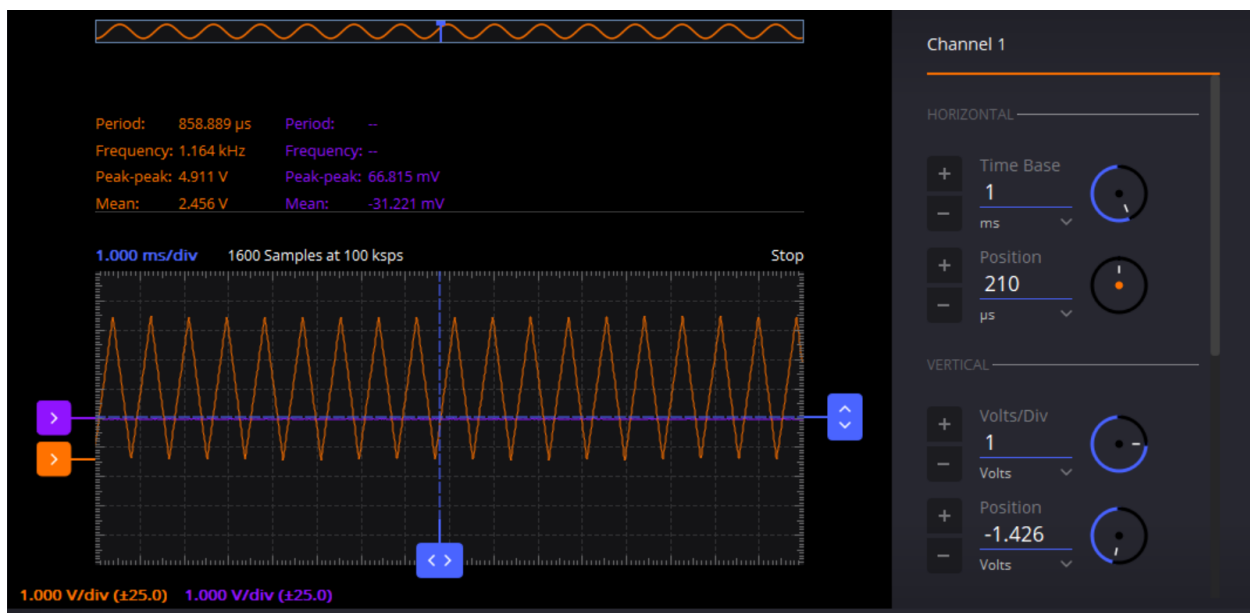
SAWTOOTH SIGNAL



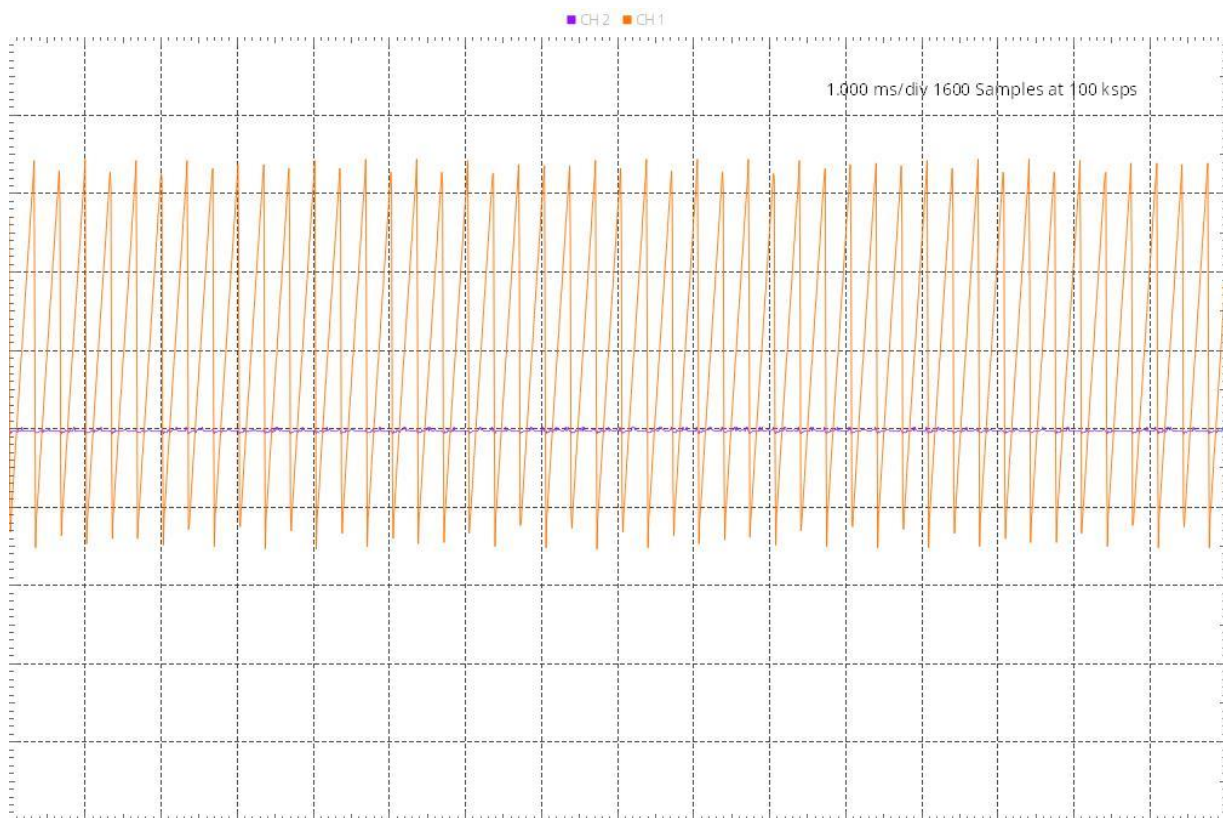
SLOW Triangle Wave



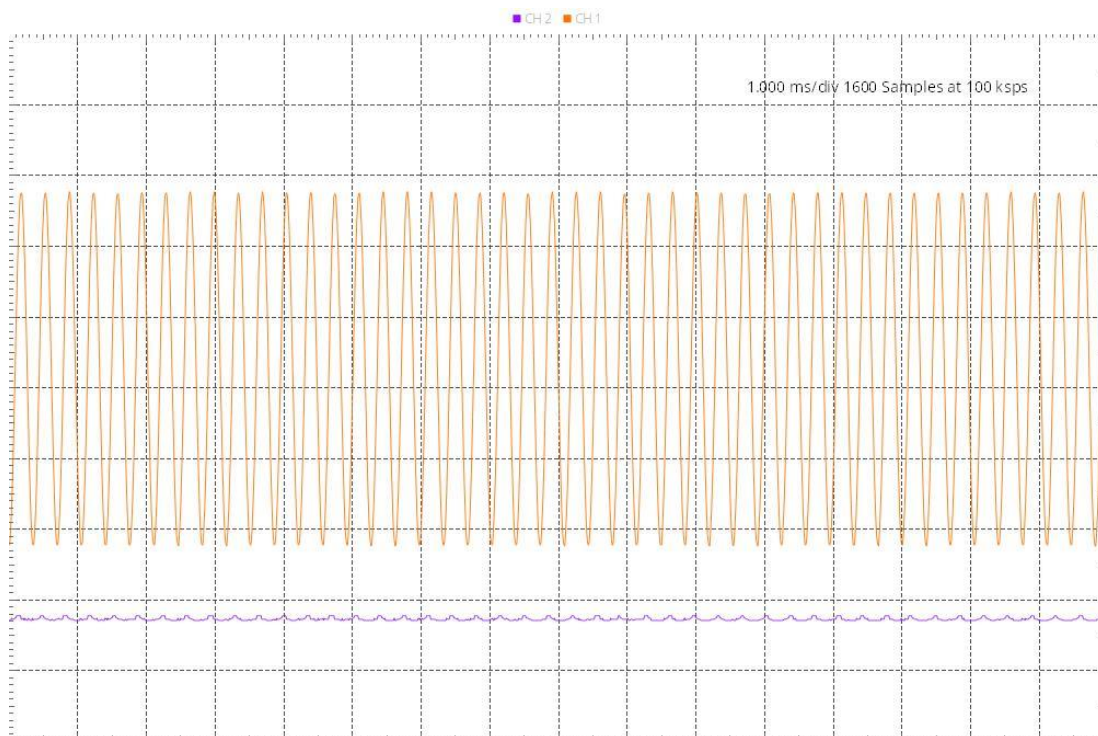
Fast Triangle Signal



Steps by 64 Triangle Signal



LARGE Frequency Sinusoid



Approx 1Khz Frequency

