FlowChart For SawTooth Wave

P/C 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 ≈ 20mV.

FLOW CHART FOR TRIANGLE WAVE

P/C Activity 6

Step 1 • Configure and initialize ANSELA, TRISA, DAC1DATL.

Step 2 • Initialize a boolean variable in UserApp and Set it to be true.

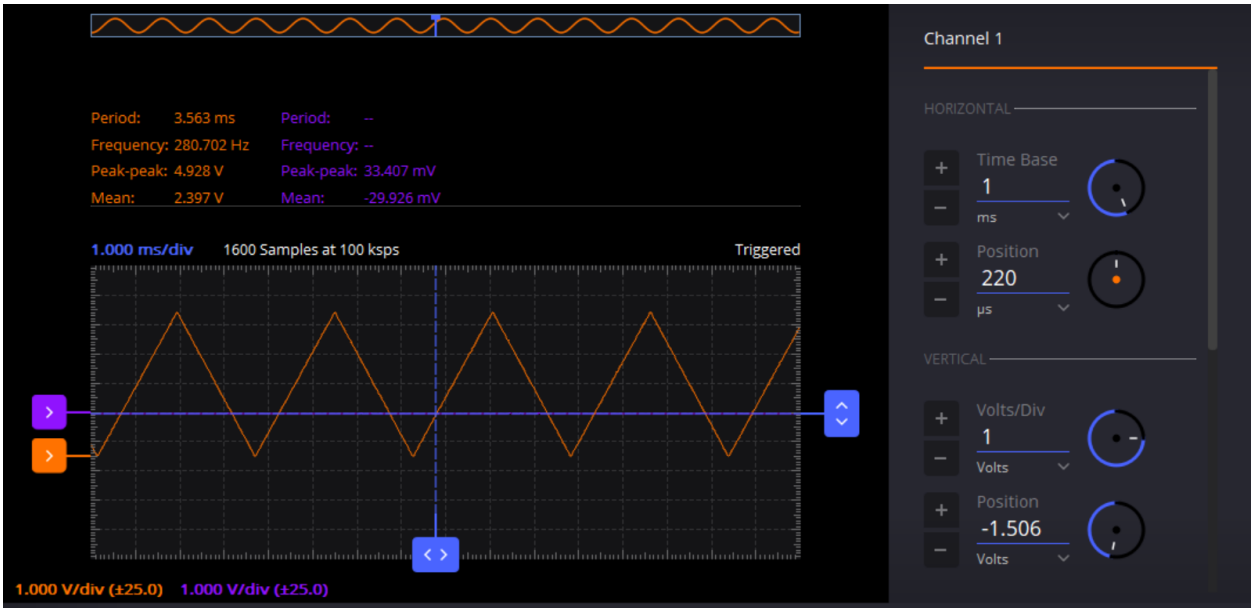
Step 3 • Set the boolean to true when DAC1DATL reaches zero and false when it reaches 255.

Step 4 • Increment DAC1DATL when our boolean variable True. Decrement when its false.

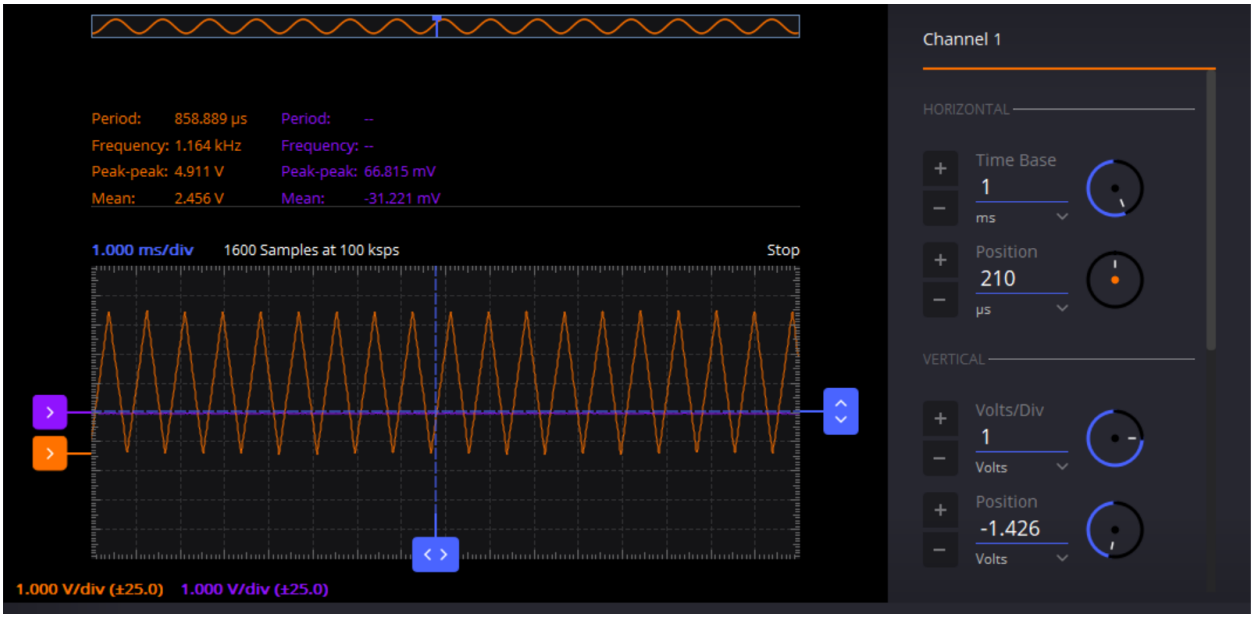
Screenshots of our progress

SAWTOOTH SIGNAL

SLOW Triangle Wave

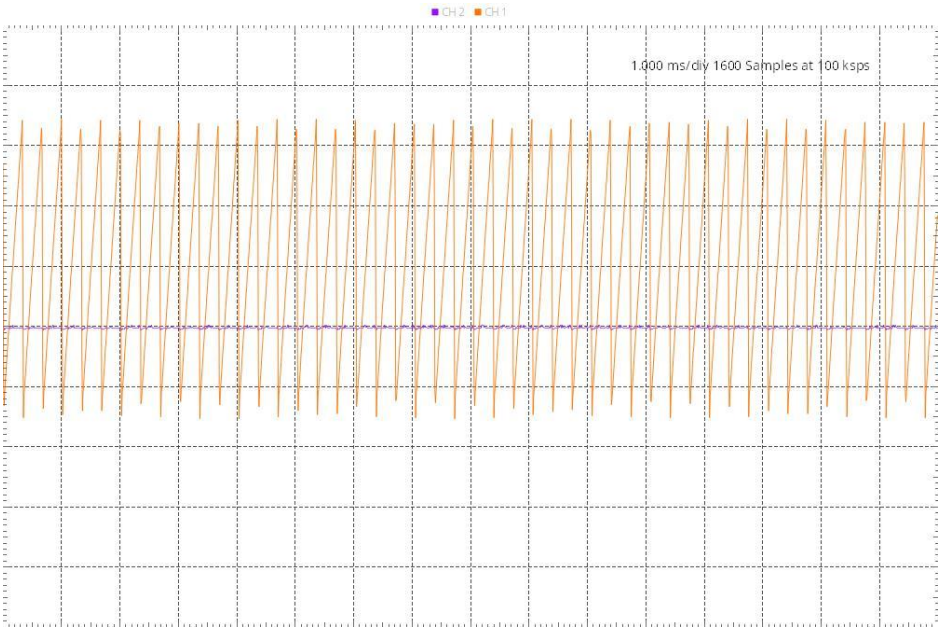


Fast Triangle Signal

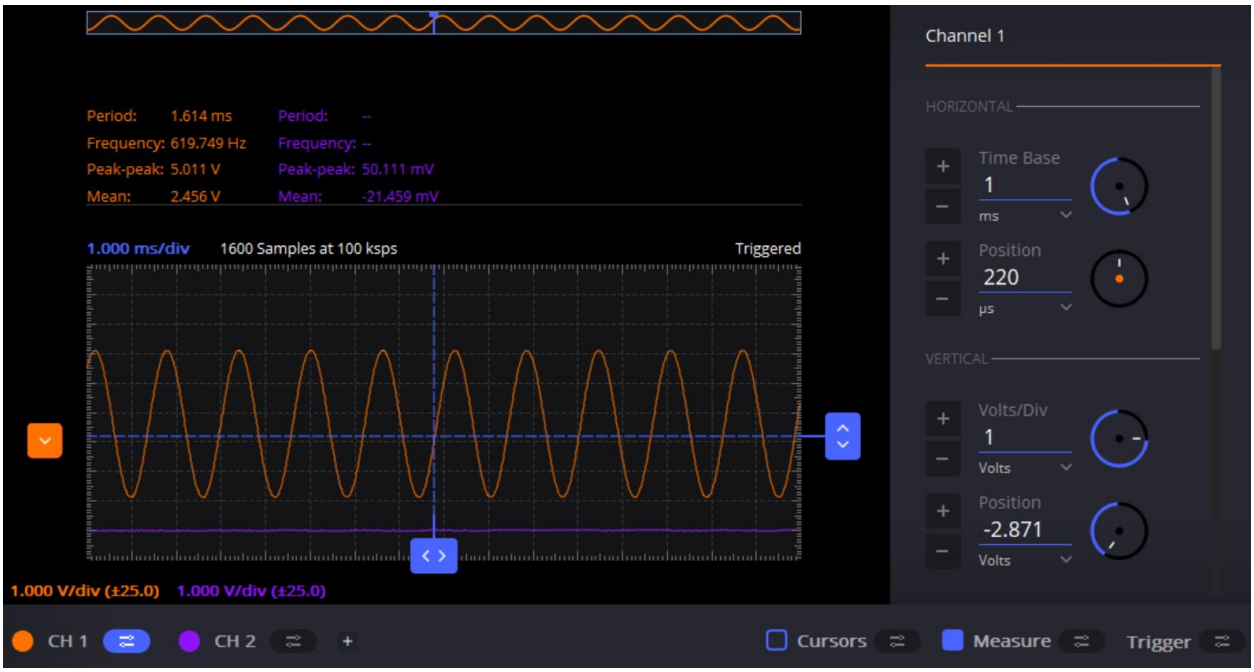


64 steps Triangle Signal

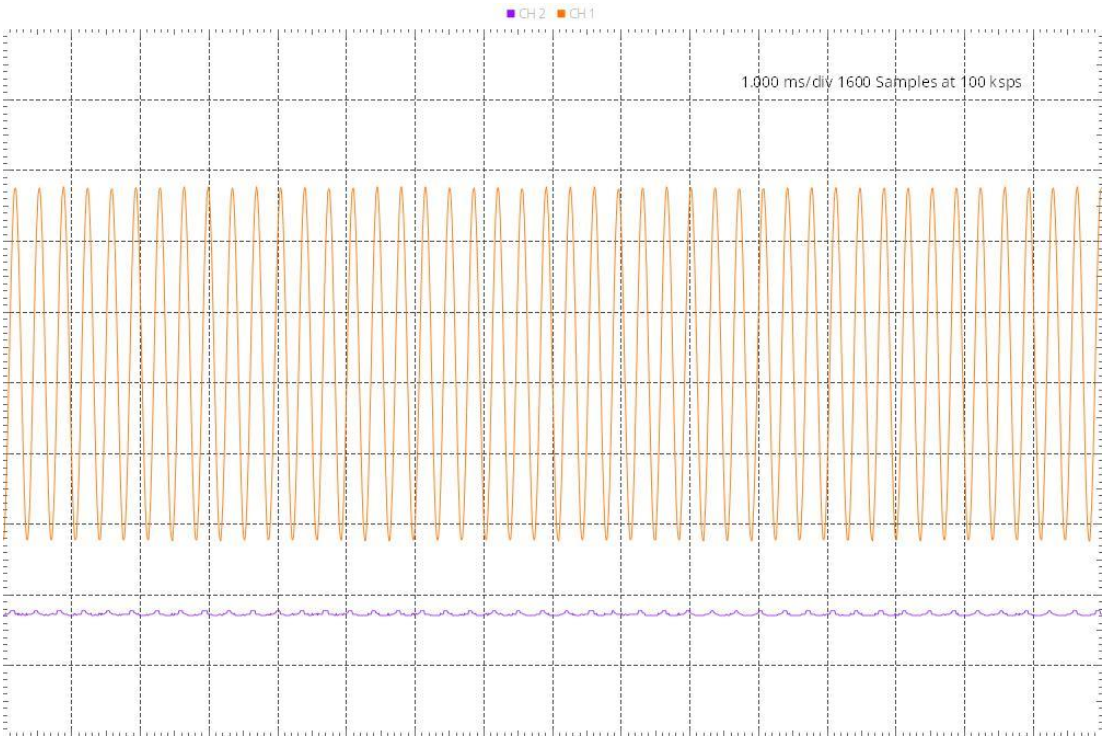
Printed version



Regular enough Frequency Sinusoid



Printed version



Approx 1Khz Frequency

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