

Program Design:GPIO Setup:

```
LATA = 0x00;  
ANSELA = 0x00;  
TRISA = 0x00;  
DACICON = 0xA0;
```

User App Run:

```
static counter = 0;  
static sineTable[] = { }
```

- Make counter roll over if reached max DAC value.
- Update DAC with the new sine value
- increment counter, by (2 or 4).

The screenshot displays the Scopy v1.2.0 software interface. On the left is a sidebar with various instrument icons: Home, Oscilloscope, Spectrum Analyzer, Network Analyzer, Signal Generator, Logic Analyzer, Pattern Generator, Digital IO, Voltmeter, and Power Supply. The main workspace is divided into three sections. The top section shows a small waveform preview with a blue cursor. The middle section displays the main oscilloscope screen, which shows a square wave signal. The screen includes a grid and a blue cursor. The bottom section shows the signal generator settings, including a sine wave icon, a frequency of 288.226 Hz, and a peak-to-peak voltage of 4.944 V. The right sidebar contains the 'Channel 1' settings, including 'Time Base' (1 ms), 'Position' (1 ms), 'Volts/Div' (2 Volts), and 'Position' (-2.51 Volts). The bottom status bar shows 'CH 1' and 'CH 2' settings, along with 'Cursors', 'Measure', and 'Trigger' buttons.

Scopy - v1.2.0 - e02cebe

Print

Run

Single

Channel 1

HORIZONTAL

Time Base

20 μ s

Position

215 μ s

VERTICAL

Volts/Div

50 mVolts

Position

-522 mVolts

SETTINGS

CH Thickness

1

Curve Style

Lines

Zoom: 20.000 μ s/div 3749 Samples at 10 Msps

Stop

50.000 mV/div (± 2.5) 455.197 mV/div (± 2.5)

CH 1

CH 2

Cursors

Measure

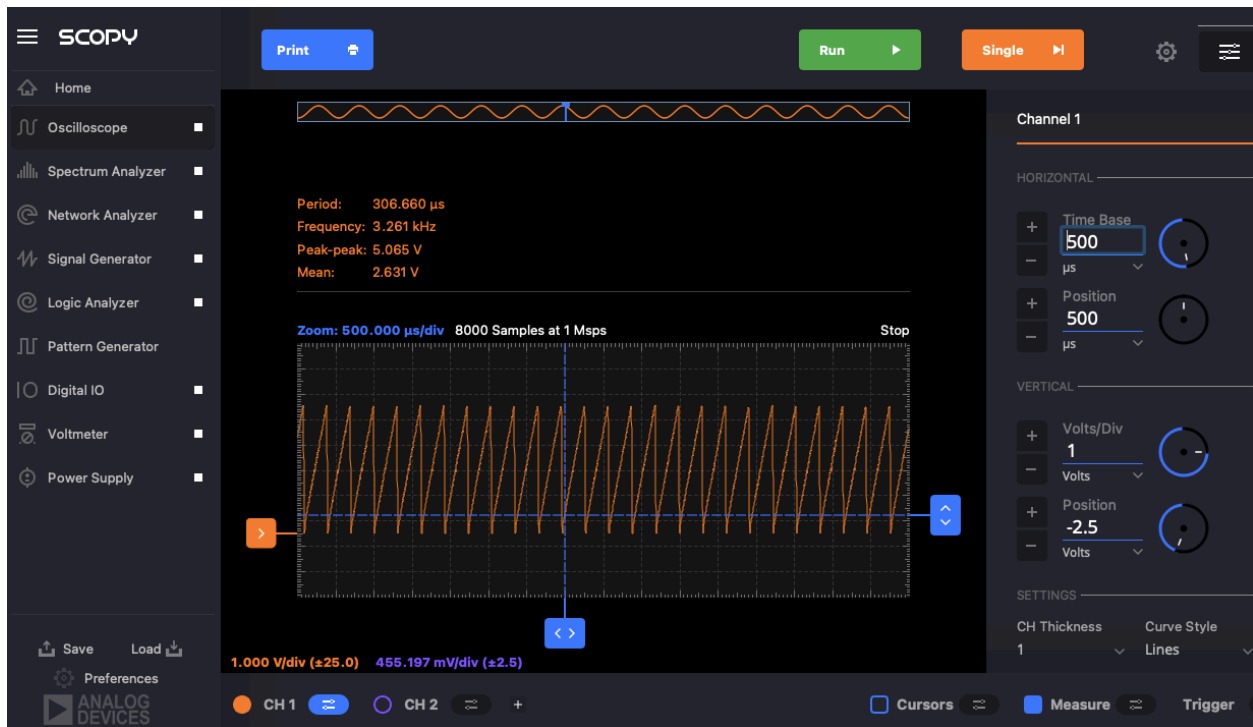
Trigger

Save

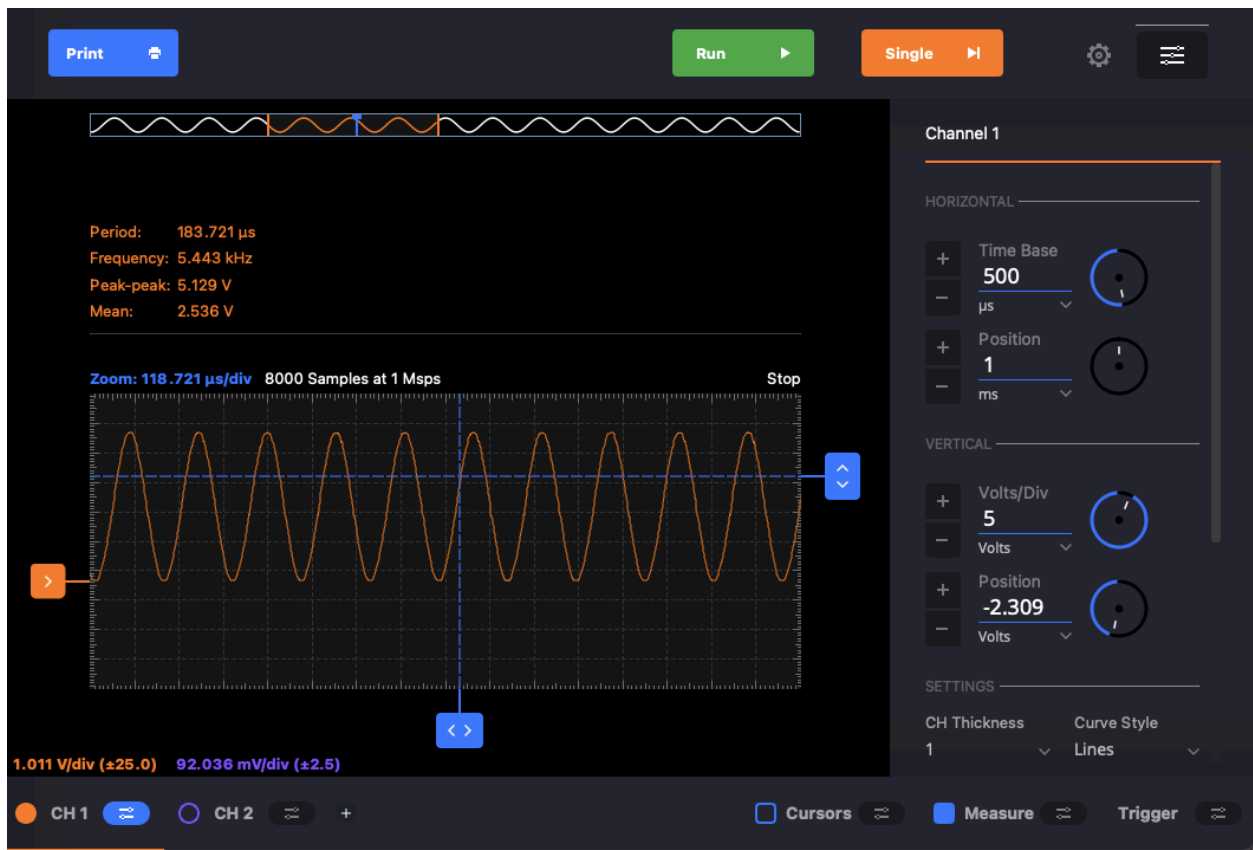
Load

Preferences

ANALOG DEVICES



SINUSOIDAL WAVE:



SINUSOIDAL WAVE with 1kHz:

