

LabVIEW lab exercises

Exercise 1

Acquire the audio for a window of 1 s on a waveform graph and display the mean value and the maximum and minimum of the acquisition.

The user must have the possibility (from front panel) to be able to stop the program.

Exercise 2

In another cycle make the power spectrum of the signal obtained and display it on a waveform graph. The user must have the possibility to show the spectrum in linear or logarithmic scale. The two cycle (the one of the acquisition and the second of the spectrum) must close with only one stop button.

Exercise 3

Create a third cycle to save a window of 1 s of the signal in a text file. This third cycle must stop with the others two with the same stop button.

Exercise 4

Insert a fourth cycle that enlarges of 10% the waveform graph of the acquired audio signal.