University of Evansville

Project 3

File Frequency Plot

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EE356 Small Computer Software

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Description:

Allows a user to select a .wav file, then when the plot button is clicked it plots the wav file in time, and after doing a fast Fourier transform, it plots in frequency below the other graph.

* Meets these Minimum Requirements:
  + The user should be able to choose a sound file from a menu.
  + Your program must handle mono files in .wav format.
  + Your program must provide a time and a frequency plot with appropriately labeled axis.
  + Provide a mechanism to clear the plots, replot, or read another file for plotting without restarting your program.
  + The FFT method must be executed on a separate thread.
* And these Extra Features:
  + Filename is displayed if user chooses a .wav file
  + Tooltips appear when mouse is hovered over buttons and the textbox to help user understand what they do.
  + Custom window icon

