

LAB REPORT 2

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Delay2.m

Analysis of a delay filter with user definable variables within the delay time and gain and graphical representation.

Syntax

Outwave = Delay2 (WavFN, DTsec, Gain)

Description

Input signal is to be imported for analysis and can only be used within the function. In this case, the user is to input specific values as there will be no default values.

WavFN	=	Signal to be processes
DTsec	=	Delay time of the second signal in seconds
Gain	=	Amount of gain added to the second signal

Input variables:

- Delay time = 0 - 1
- Gain = 1 - 3

Output

Delay2 will output wave in three parameters. The input wave file, an audible playback and a graphical plot showing the original, combine and delayed wav file.

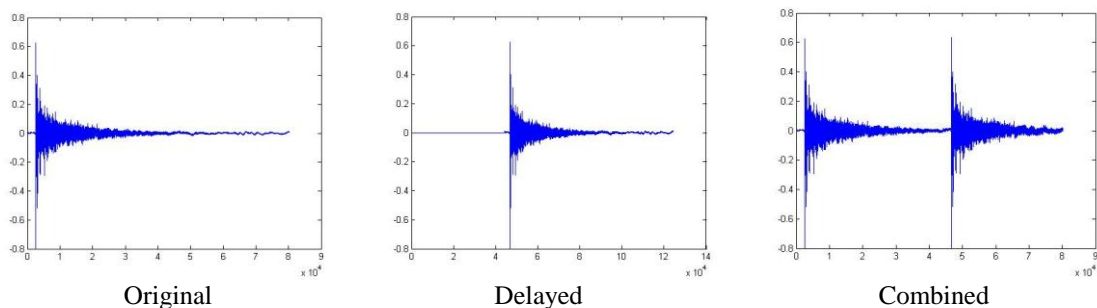


Figure 1 – Output plots

Example

To create a 1 second delay with no gain from original signal;

```
Outwave = Delay2 ('Impulse_Resp_A_Mono.wav',1,1)
```

Audible and graphical results will be initiated.

Diagnostic

Gain values lower than 1 will have no effect on delay filter.