

Lab 6 Assignment

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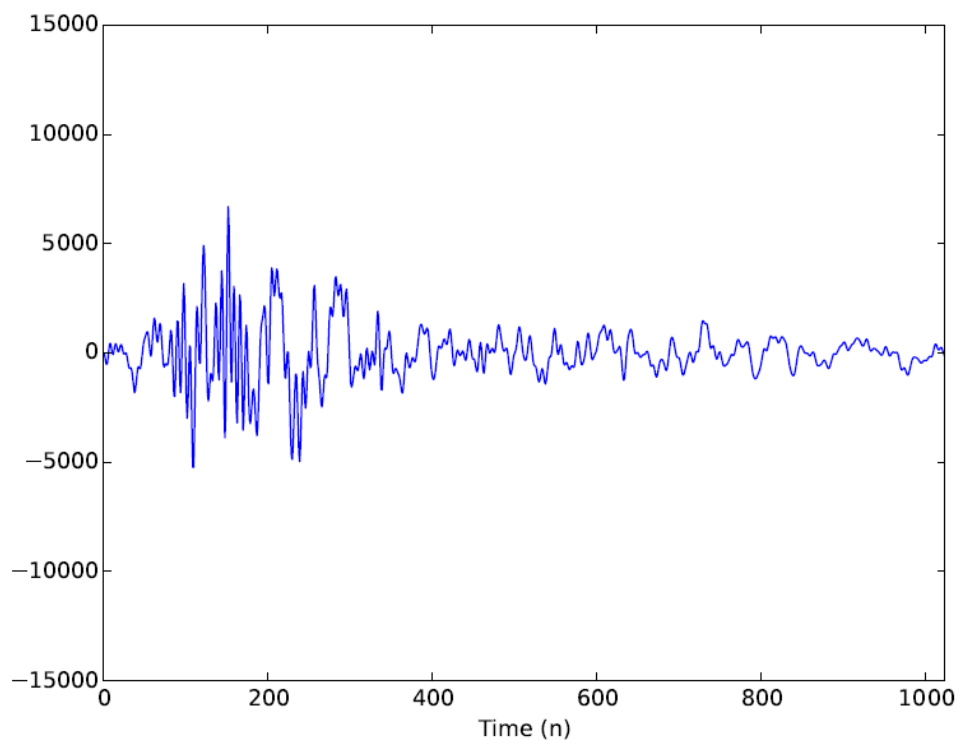
Section 3:

Exercises 1 question:

It may be useful to use a high sampling rate for this purpose. What is the highest sampling rate your system allows? Common sampling rates are: 44.1 KHz, 48 KHz, and 96 KHz.

Sample rate of 48 KHz is allowed to my laptop.

The figure below is the response recorded in my living room. I have curtain and clothes surrounded. The reflected path of the impulse is not very significant. There is an obvious impulse at the beginning and that's all.



Next figure was captured at the end of the hallway outside of my apartment. The hallway has narrow walls made by artificial marble, which create great echo. The figure shows that there is more response after the direct path sound wave. And around 350 micro second, a pretty nice echo of the original sound wave was capture, which I think was the reflection from the other end of the hallway.

