

HW7 report

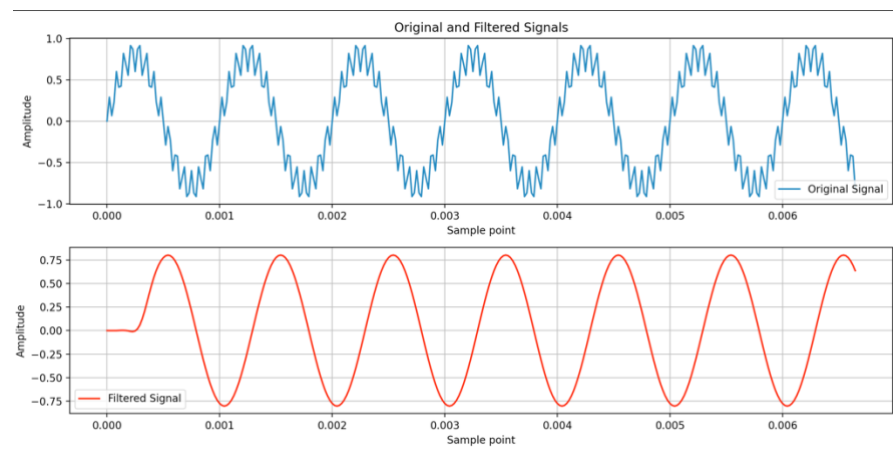
Github. : https://github.com/YuJu0819/Embedded_sys/tree/main/HW7

Q. What is the **Range of Representable Values** in the ARM fixed point q15 (Q1.15) format?

A. For signed data : $[-1, 1-2^{-15}]$. For unsigned data : $[0, 2-2^{-15}]$

Discussion :

We use FIR to implement our low pass filter. We verify the filter with a low frequency sin function compose with a high-frequency sin function.



For STM experiment, we detect acceleration.

