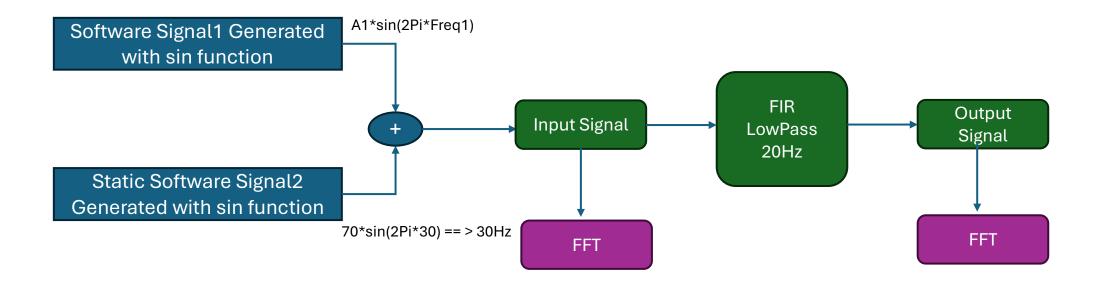
FIR-FFT Project

Mehdi HANZOUTI 2024

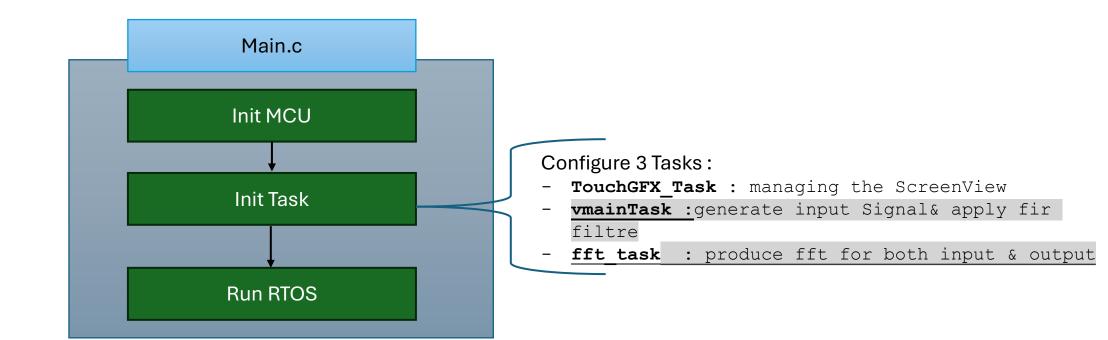
Project Description

Sampling Time =4ms



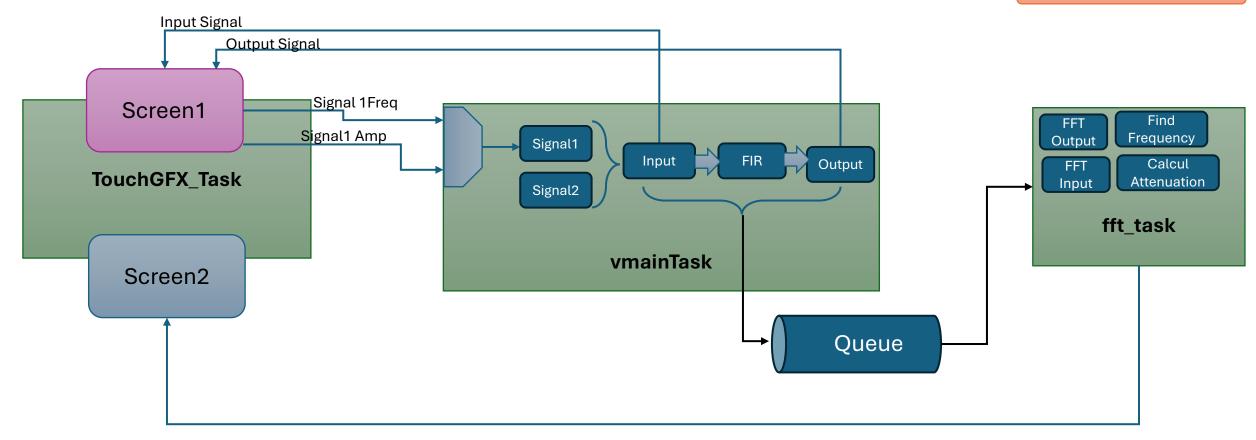
Software Description

Sampling Time =4ms



Software Description

Sampling Time = 250Hz



FIR Octave Script

```
close all;
clear all;
clc;
pkg load signal
%FIR1
fs=250;
fc=20; %20Hz
wc=fc/(fs/2); % normalized frequency
b=fir1(80,wc); % Low pass filter
figure;
stem(b);
freqz(b,1,2^12,fs); %frequency response of filter
[H,f]=freqz(b,1,2^12,fs);
figure;
plot(f,abs(H));
xlabel('Frequency Hz');
ylabel('Freq Response');
box off; grid on; axis tight;
```