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Subject: Using IDL to make a signal filter

Posted by [ICBM0926](#) on Mon, 14 Jul 2008 11:08:15 GMT

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I have an 1D vector data in IDL from an analytical laser formula which contains 2 laser frequencies. I wrote a program trying to filter my 1D vector and get the waveform of one of the frequencies. I used 1D FFT and a mask

function(step function). I applied the mask function to the frequency domain data. I've covered both positive and negative frequencies. I did inverse 1d FFT to retrieve the signal. I found that the amplitude of the signal is only half as it should be. Could anybody tell me what went wrong?

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