
Subject: Re: How to perform the 1-D signal filter?

Posted by [Kenneth P. Bowman](#) on Fri, 01 Feb 2008 14:58:38 GMT

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In article

<e9b5822c-2240-4937-ad85-a53f057d9ec0@p69g2000hsa.googlegroups.com>,
"duxiyu@gmail.com" <duxiyu@gmail.com> wrote:

```
> Dear all,  
>  
> Here I give a signal example and hope someone can show me how to  
> perform the frequency filter on it.  
>  
> ;creat a signal data with two peaks in frequency domain at 2 and 3 Hz.  
> t=findgen(1000)/10.  
> data=sin(2*!pi*2*t)+sin(2*!pi*3*t)  
>  
> freq=findgen(501)/100.  
> v=fft(data)  
> plot,freq,abs(v[0:500])^2,xtitle='frequency',ytitle='spectru m'  
>  
>  
> I want to filter the signal with the frequency higher than 2.5 Hz. How  
> do I do this?  
>  
> I have read the help files about Digital_Filter and Convolve, but I do  
> not know how to select the parameters for Signal_Filter.  
>  
> Du
```

You could look at the chapter on FFTs and digital filtering in my IDL
book (<http://idl.tamu.edu>). I wrote the chapter in part so that *I*
could refer to it whenever I need to do a digital filter. :-)

Ken Bowman
