Subject: Re: question relating to FFT
Posted by Hu on Mon, 02 Mar 2009 22:03:47 GMT
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On Mar 2, 2:37 pm, Paolo <pgri...@gmail.com> wrote:
> Hu wrote:
>> Hi, there
>> I try to use FFT function to smooth a curve (an array), and the code
>> is like this:
>
>> FUNCTION FOURIER,ARRAY ;*****FAST FOURIER
FLITER
>> FILTER=1.0/(1.0+DIST(152)/4.0)^2
>> newARRAY=FFT(FFT(ARRAY,-1)*FILTER,1)
>> RETURN,newARRAY
>> END
>
>> when I got an array X (has 152 elements) and use this function like :
>
>> Y = FOURIER(X)
>
>> I got an result Y with 152 elements, but all the elements are complex
>> number, but How can I got an array filled with regular number, not
>> complex number?
>
> To get real number,
> you can take the REAL_PART or the ABS of your array.
> But you are using a very strange filter indeed...
>
> Ciao,
> Paolo
>
>
>
>> I mean, I want to use the result to calculate regression relationship
>> with other array.
>
>
Thank you ,and Why do you say it's strange? I want to denoise the
whole curve(store as array) to make it more reasonable.