
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.
