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Subject: dcomplexarr and phase

Posted by [zolile mtumela](#) on Tue, 06 Mar 2012 10:41:24 GMT

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Hi all

I got a program that is running here, In this program I want to use dcomplexarr function on filterdata:

my data:

Ny=360

T=20

```
naqy_array = naqy_array =(naqy_array)*(hanning(360))
```

```
timefilter = Digital_Filter(f_low*2*T,f_high*2*T,50,floor((Ny)/2))
;freqfilter=fft(timefilter)
```

```
nfreq=ntime/2
```

```
freq=findgen(nfreq)/(ntime*T)
```

```
freqfilter=fft(timefilter,/double)*ntime
```

```
filterdata=fft(naqy_array,/double)*freqfilter
```

```
inv_spec =fft(spec,/double,/inverse)
```

```
plot,abs(inv_spec)
```

```
phi = atan(inv_spec)
```

```
plot,phi
```

I need some help on the ff difficulties

I want to use dcomplexarr on filterdata so that it returns as complex , But I dnt how?

calculate the phase angle, I dnt know if im done correctly and I would like to calculate the amplitude

```
sqrt(float(inv_spec)^2 + imaginary(inv_spec)^2)
```

Its allowed to use inverse.

thank you in advance for ur time

Zolile

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