Subject: Re: FFT phase?
Posted by Craig Markwardt on Fri, 25 Jan 2013 02:11:30 GMT
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On Thursday, January 24, 2013 12:28:02 PM UTC-5, xqin...@gmail.com wrote:
> Hi,
>
>
>
> just use FFT(y). For example, y=A*cos(x+B), C=fft(y). I think atan(C,/phase) should equal to B, but the return reslut is not. How to obtain A and B from complex C?

It is correct. Example:

```
x = 2*!dpi*2*dindgen(16)/16  ;; Angle in radians
y = 0.7*cos(x + 1.6000)
c = fft(y,-1)
print, atan(c[2],/phase)
  ==> 1.6000
```

Craig