
Subject: Re: IDL QUESTIONS(time convection)

Posted by [David Fanning](#) on Tue, 29 Nov 2011 17:44:32 GMT

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zolile mtumela writes:

- > The aims of these plots are find the spetal peaks. Now I can't read
- > the spectrum. It is important for me do sampling rate of 120 seconds.
- > Lack of understanding is killing me.
- > I need help and suggestions about solving this problem.

Well, I don't know. This code seems to do what you want to do, with the data you provided this morning.

```
!p.multi=[0,1,2]
Result = interpol(vel,time,U)
cgplot, (time-time[0])/3600., vel, $
    linestyle = 2, xtitle='Hours'
cgplot, (u-u[0])/3600., result, /overplot, $
    psym=2, color='red'
N = n_elements(result)
print, N
T = 120
Spec = fft(result)
freq_axis = findgen(N)/(N*T)
cgplot, freq_axis[0:N/2],abs(spec[0:N/2]), $
    xrange=[0.001,0.005], xstyle=1
!p.multi=0
end
```

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
