Subject: Re: FFT and CONVOL
Posted by wmc on Thu, 04 Jun 1998 07:00:00 GMT
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In article 68A97CA3@crml.uab.edu, Isabelle Banville <ib@crml.uab.edu> writes:
> WAVE> filter_param=DIGITAL_FILTER(0.0,1.0,50,10)
> WAVE> filtered_signal=CONVOL(data(*,0,0),filter_param)
> WAVE> PLOT,data(*,0,0)
> WAVE> PLOT,filtered_signal(*,0,0)

> So this works fine, but as you notice, flow is set at 0 and fhigh is set at
> 1.
> As soon as I change either one of these values (even a hair, 0.001) there is
> no more signal. I refuse to believe that my signal can not tolerate any
> filter!

> data is an INTARR. I have tried converting to floats with no change.

Your code looks plausible and works fine when I use it with different flow's.
Using data as INTs is definitely dangerous and bound to lead to tears. Don't do
this - IDL routines tend to take your datatypes on trust and not convert them
which leads to hideous problems is you hand int's to routines that want floats.
I suspect that this is your problem.

- William

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Climate Modeller, British Antarctic Survey | Disclaimer: I speak for myself