Subject: Re: double Fourier Fit
Posted by K. Bowman on Mon, 27 Feb 2006 14:27:26 GMT
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In article <1140999960.128895.55810@i39g2000cwa.googlegroups.com>,
"Maria" <mayte.vasquez@gmail.com> wrote:

> Hi All,
> I would like to make a Double Fourier Fit to some high fluctuating
> magnetic field data. I didn't find any online IDL help in regards. If
> anyone knows, Please guide me to some IDL help posted online or to some
> DFF documentation.
> Thank you.
> Maria

I'm not sure what you mean by a double Fourier fit. Do you mean the FFT of a 2-D array?

If so, the built-in IDL FFT will automatically handle arrays of any dimension. I urge you to create an input array with known characteristics (e.g., sum a few Fourier components of with specified wavenumber, amplitude, and phase). Then study the resulting FFT. I find that to be the best way to sort out how IDL organizes the FFT components.

There is a chapter on the 1-D FFT in my book (http://idl.tamu.edu/).

Cheers, Ken Bowman