
Subject: Re: Doing a DFT in IDL

Posted by [Helder Marchetto](#) on Tue, 03 Apr 2012 09:23:28 GMT

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On Monday, April 2, 2012 11:24:15 PM UTC+2, Kenneth P. Bowman wrote:

>> Dear all,
>> I've been looking for this around, but couldn't yet find anything.
>> I would like to made a (discrete) Fourier transform by directly typing in the
>> code. The target is not performance, but eventually modifying the source
>> (integrated) function from $[f(x)\exp(-j2\pi i x/N)]$ to something different.
>> Has anybody written such a code in IDL that can be modified? Or can anybody
>> give me a working link to such a code?
>>
>> Many thanks and sorry for wasting your time.
>> Cheers, Helder
>
> A DFT is just a set of dot products. (And an FFT is an efficient way to
> carry out the DFT calculations.)
>
> Compute the basis functions that you want at the tabulated points,
> then multiply by the function you are transforming and sum.
> You can write it as a matrix-vector multiplication.
>
> Ken Bowman

Dear Ken,
thanks for your reply. I think I will have to write it, but to avoid beginners errors, I wanted to modify an available code. That's all.
Cheers, Helder
