Subject: Deconvolving a set of points
Posted by panblosky on Tue, 02 Mar 2010 09:43:35 GMT
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Hi all,

I hope you can help me with this. I have a couple of set points [x,f] and [x,h], and I wish to deconvolve them in order to get [x,g].

I know that by the convolution theorem, f*g = h ==> h = F^(-1) [F(f)F(g)] (F is the Fourier Transform). So, if I would like to find g, I should do

F(h) = F(g)F(f)
F(g) = F(h)/F(f)
g = F^(-1)[F(h)/F(f)]  (assuming f is non-zero)

I am trying to implement this in IDL with a simple function (the convolution of two square pulses, and then deconvolving in order to get the same function), but I get different things.

Does anybody know how to do this?

Thanks!