Subject: Re: Convolution, IDL & Numerical Recipes
Posted by R.G. Stockwell on Fri, 01 Nov 2002 14:01:56 GMT

Hector Aceves wrote:
> Hello..
>
> I am using IDL for some of my research and have a particular problem
> with convolution of two arrays. I have used IDL's CONVOL procedure
> and subroutine CONVLV given in NUMERICAL RECEIPES..both give
> different results. I hope some one can shed light on what the
> reason might be.
>
> Thank you. Hector
>

Perhaps you want to use the following keywords:
Check out the help file to see the effects the keywords
have on how the arrays line up to be convolved.
(Note: you must explicitly set center=0, or else it defaults
to 1)

z=convol(a,k,center=0,edge_wrap=1)

a 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 0
k 1 0 0 0 0 0 0 0 0

z 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 0

Cheers,
bob stockwell