Subject: Re: Convolution with non-constant Kernel? Posted by Juggernaut on Fri, 12 Nov 2010 12:48:16 GMT View Forum Message <> Reply to Message

On Nov 11, 7:56 pm, SonicKenking <ywa...@gmail.com> wrote: > Hi, I wonder if there is an easy way to perform convolution on an array with non-constant kernel. > > The IDL built-in CONVOL function requires the kernel to be a fixed > array, e.g. > [-1,2,-1]. I want to have a dynamic kernel that changes based on the > position of the array. Something like >  $array = [8,6,7,9,1,3,4,5], kernel=[sin(index_i-1), 2, sin(index_i+1)]$ > > > Is there any other built-in IDL function that can do this or is there > someone who has already coded this up? If the answer is no. I'll go > ahead and code my own program. Just checking it here beforehand to > avoid re-inventing wheels.

> Thanks!

Couldn't you just perform multiple convolutions and then combine the result in the end using a position mask?