Subject: Re: convol.pro - doubt in giving kernel array
Posted by David Grier on Tue, 12 Oct 2010 18:26:23 GMT

On 10/12/10 10:13 AM, sid wrote:
> Hi,
>   I need to convolve a gaussian of sigma=0.00203 with the spectral
> data. So I need to use the convol.pro of idl. But seriously I couldn't
> understand what the kernel is, and what should I give in place of the
> kernel. If anybody knows please let me know.
> regards
> sid

You don't describe your spectral data, so I'll just guess:

Let's say your data are in an array called d. We want to convolve
d with a Gaussian kernel.

omega = findgen(n_elements(d))   ; bin size or scale factor?
kernel = exp(- omega^2 / (2. * sigma^2)) ; Gaussian (not normalized)
result = convol(d, kernel)   ; do the work

Depending on the details of what you want to do, you might
set a few of the flags to convol. But this is a start.

TTFN,

David