Subject: Re: Low pass filter - Problem with kernel
Posted by Vidhya on Wed, 04 Oct 2006 09:44:57 GMT
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Dear All,
Sorry for not giving a detailed description of the program. The following is the program, which tries to apply a low pass filter to an image of size, 766*374 with 62 bands.

```
PRO vnoise
filename='image.hdf'
hdfid=hdf_sd_start(filename, /READ)

varid=hdf_sd_select(hdfid, 0)
hdf_sd_getdata, varid, image


varid=hdf_sd_select(hdfid, 1)
hdf_sd_getdata, varid, mask

hdf_sd_end_access, varid


hdf_sd_end, hdfid


column_average=rebin(image, 1, 374, 62)


;applying the log to the average radiance of the image
column_log = alog10(column_average)

ksize = [3,3]


kernel = replicate((1.0/(ksize[0]*ksize[1])), ksize[0], ksize[1])


filtered_image = convol(float(column_log), kernel, /CENTER,
/EDGE_TRUNCATE)

;filtered_image = convol(float(column_log), kernel, /CENTER,
/EDGE_TRUNCATE)
;% CONVOL: Incompatible dimensions for Array and Kernel.
;% Execution halted at: $MAIN$
```

And this is where I get the error message about the dimensions.

What I am trying to do is to rebin the image column-wise, apply a log to the average, and then apply the kernel to the image.

Let me know where I go wrong!

Thank you
Vidhya
