Subject: Re: Envi band math help!
Posted by tianyf_cn on Tue, 15 Jul 2003 04:29:13 GMT
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Hi,

Do you want to get the spectral values of a specified points?

If your image is not too larege, you can read the image into memory
and then get the values. If you want values of only one point, it
seems not a very good choice. The procedure may be like those:

```
;
;Example:
;  x=getpoint('c:\test.raw',10,35)
;  print,x
;
;pro getpoint, fname, x, y
function getpoint, fname, x, y
 ;
 ;Check file name
 if n_elements(fname) eq 0 then begin
  envi_select,fid=fid,dims=dims,pos=pos
  if fid eq -1 then return,-1
   endif
   ;
   ;Check x,y values
   if n_elements(x) eq 0 then x=0 ;IDL array start from 0, NOT 1.
   if n_elements(y) eq 0 then y=0
   ;
   ;Query the data type for definition of array holding the data.
   envi_file_query,fid,data_type=dt
   ;
    data=make_array(dims(2)+1,dims(4)+1,n_elements(pos),type=dt)
   ;
   ;Read the data one band each time
   ;ENVI_GET_BAND can read only one band data.
   ; If you want use IDL functions, the readu can be a good choice.
   ; But additional information shoud be need.
   ;
   for bi=0,n_elements(pos)-1 do begin
    data(*,*,bi)=envi_get_data(fid=fid,pos=pos(bi),dims=dims)
    ;If you want to get values of one point, you can set dims to
    ;       dims=[-1,x,x,y,y]
    ;This is useful when your images is too large to read into memory.
   endfor
   ;
   help,data
   ;
```

```
  ;print,data(x,y,*)
  return,reform(data(x,y,*))
   ;
end
```

Is this what you want?

Tian.

gauravjn123@yahoo.co.in (Gaurav) wrote in message
news:<d193b5fb.0307141212.942053d@posting.google.com>...
> Hi!
> Well even i had felt the same...And therefore i also tried to use a
> procedure to output those pixel values...but unfortunately i was not
> able to use the envi widgets to input the five bands in an image...so
> i reverted back to band math functions for it.
> If it is not possible to output a single pixel value using
> functions, could you please tell me how to input the band values using
> a procedure (Could you please give me a sample procedure to input 5
> bands in an image)
> Thanking you in advance.
>
> Gaurav Jain
> ENST-Bretagne
>