
Subject: Re: Help with code for hyperspectral image analysis

Posted by [Kel](#) on Wed, 20 Jun 2012 20:24:54 GMT

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Update: Still running out of memory. I've already changed the values in the idlde.ini file, as recommended in other posts, but now I'm stuck. Google is suggesting that I increase the virtual memory of my pc, so I will give that a try.

On Wednesday, June 20, 2012 3:59:36 PM UTC-4, Kel wrote:

> Thanks you both so much! I had just gotten an out-of-memory error on Klemen's code, which seemed to be going ok up until that point, so I will try this modification now and hope it helps.

>

> On Wednesday, June 20, 2012 3:55:08 PM UTC-4, Brian J. Daniel wrote:

>> See my adjustments to Klemen's code below. This way you don't have to load the entire image, masked or otherwise, into memory. Also, untested.

>>

>> pro envi_masking_image

>>

>> ;select your image file

>>

>> ;Get your file

>> image=dialog_pickfile()

>>

>> ; Pick an output filename

>> output = dialog_pickfile()

>>

>> ;check to see if valid for ENVI

>> envi_open_file, image, r_fid=fid

>> IF fid[0] EQ -1 THEN Message,'Invalid file name: '+image

>>

>> ;learn about the image

>> ENVI_FILE_QUERY, fid, ns=ns, nl=nl, nb=nb, data_type=data_type,Interleave=interleave

>> help, data_type

>>

>> ;build array based on data type

>> ;data_holder=Make_Array(ns, nb, nl, Type=data_type) ; memory intensive

>>

>> ;make a mask

>> f = ENVI_GET_DATA(fid=fid, dims=dims, pos=140)

>> indx = where(f LT 40, count)

>> f[indx] = 0 ; now f is your mask

>>

>> ;apply the mask to all bands and save

>> OpenW, lun, output, /Get_Lun

>> if count gt 0 then begin

>> for i=0,nl-1 do begin

>> data = ENVI_GET_DATA(fid=fid, dims=dims, pos=i)

>> writeu,lun,data*f

```
>>
>>   endfor
>> endif
>>
>> ; close binary file
>> close,lun
>> free_lun, lun
>>
>> ; write out an envi header file
>> envi_setup_head, Data_Type=data_type, /Open, R_FID=masked_fid, $
>>   /WRITE, FNAME=output, Interleave=2 ; BIP
>>
>> end
```
