Subject: Re: Help with code for hyperspectral image analysis
Posted by Brian Daniel on Wed, 20 Jun 2012 19:55:08 GMT
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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
```