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Subject: Re: Reading ENVI roi file  
Posted by [Peter Mason](#) on Wed, 13 Oct 1999 07:00:00 GMT  
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alexander.loew@stud.uni-muenchen.de (Alex Loew) wrote:  
> is there a routine to read ENVIs ROI files? I need a procedure which  
> gives me the index for each roi.

One way is to use ENVI's ROI support routines. (I assume you're working within ENVI?) First of all, each ROI is associated with a #samples and #lines, so one usually works off an image. Given a FID of an open image, do: `ENVI_FILE_QUERY,fid,NS=fns,NL=fnl` to get its full size. Then to get a list of open ROIs that can go with the image, do:  
`roi_names=1`  
`&roi_ptr=ENVI_GET_ROI_IDS(NS=fns,NL=fnl,ROI_NAMES=roi_names)`. If `(roi_ptr[0] eq -1)` then there are no loaded ROIs that match, otherwise there's at least one. To get the one-dimensional point indices (into a band of the partner image) of the first such ROI, for example, do:  
`roi_indices=ENVI_GET_ROI(roi_ptr[0])`. Note that ROIs have to be loaded (but not necessarily displayed) to be accessed like this. Also, no matter how you originally defined the ROI, it always exists as an array of one-dimensional indices, one index per pixel "set" in the ROI.

HTH

Peter Mason

(PS Apologies to regular IDL users - I hope you don't mind the occasional ENVI-related post.)

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