
Subject: Re: envi_get_data

Posted by [wita](#) on Wed, 30 Sep 2009 09:39:09 GMT

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woods1 wrote:

> Hi,

> i have a problem.

> i try this: `img = envi_get_data(fid=De_fid, dims=dims,pos=pos)`, but i

Hi,

Using `ENVI_Get_Data()` on such large images is really a bad idea. Trying to read the whole image will take more then 2Gb of memory (in case of 8bit data) and you will have trouble to fit it in memory on any 32 bit operating system.

What you should do instead is use ENVI's tiling mechanism to read your image in chunks and loop over the number of tiles. Then resample each tile to be able to display it (or do whatever processing you want) and stitch the results together. So in pseudo code it should look like this:

```
tile_ID = ENVI_Init_Tile(File_ID, NUM_TILES=num_tiles,  
INTERLEAVE=1, ....)
```

```
FOR i=0L, num_tiles-1 DO BEGIN
```

```
    data = ENVI_Get_Tile(tile_ID)
```

```
    <processing data goes here>
```

```
ENDFOR
```

```
ENVI_Tile_Done, tile_ID
```

Setting `INTERLEAVE=1` ensures that you read your file line by line. It may be more efficient to use `INTERLEAVE=0` but then you need to write some logic that handles the size of the tile that `ENVI_Get_Tile` returns, which depends on you memory settings.

Hope this helps.

Allard
