
Subject: Re: ENVI_INIT_TILE tiling problem
Posted by [a.l.j.ford](#) on Mon, 16 Mar 2009 08:26:15 GMT
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On Mar 14, 6:11 pm, "Jeff N." <jeffnettles4...@gmail.com> wrote:

> On Mar 14, 9:10 am, a.l.j.f...@gmail.com wrote:

>

>

>

>> I'm using interpolation to fill some holes in elevation data. Because
>> of memory limitations I'm trying Envi's tiling capability for the
>> first time! My code compiles OK, but when I run it (I have it embedded
>> in an Envi User Function) I get this error in my IDL window:

>

>> % Variable is undefined: F_NS.

>> % Execution halted at: ENVI_INIT_TILE

>

>> Here is the offending section of code. I have no idea where F_NS is
>> (I'd understand if it was simply NS, i.e. number of samples) and
>> despite searching I cannot deduce what is wrong or how to fix it. Does
>> anyone have any ideas?? BTW, the elevation data has a single band and
>> my_pos is set to [0].

>

>> tile_id=ENVI_INIT_TILE(output_DSM, my_pos)

>> FOR i=0, num_tiles-1 DO BEGIN

>> tile_data_interp=ENVI_GET_TILE(tile_id, i)

>

>> ;Processing within Tiling

>

>> tile_data_interp = REPLICATE(0.0, dims[2], dims[4])

>> tile_data_interp = TRI_SURF(output_DSM, /REGULAR, XGRID=[1, 1],

>> YGRID=[1, 1], NX=dims[2], NY=dims[4])

>

>> ; Close Tiling

>

>> ENDFOR

>> ENVI_TILE_DONE, tile_id

>

> I would check to make sure that the first argument to ENVI_INIT_TILE
> is supplied correctly. You should be giving it the FID of the input
> file, but the "output_DSM" doesn't sound like an input FID to me. In
> fact, since you use it as an argument to TRI_SURF it looks like
> output_DSM has to be an actual data array. So i think you're giving
> ENVI_INIT_TILE an incorrect argument.

Yes, you were right, output_DSM was an array rather than a FID. Many
thanks! I changed it to a valid FID and also modified "num tiles". I
now have:

```
tile_id=ENVI_INIT_TILE(fid_output_DSM, my_pos,  
num_tiles=number_of_tiles)  
FOR i=0, number_of_tiles-1 DO BEGIN  
tile_data_interp=ENVI_GET_TILE(tile_id, i)
```

;Processing within Tiling

```
tile_data_interp = REPLICATE(0.0, dims[2], dims[4])  
tile_data_interp = TRI_SURF(output_DSM, /REGULAR, XGRID=[1, 1], YGRID=  
[1, 1], NX=dims[2], NY=dims[4])
```

; Close Tiling

```
ENDFOR  
ENVI_TILE_DONE, tile_id
```

But this now results in the following error, which I don't understand and can't find a reference to (including in tri_surf.pro, unless I've missed something?). Any ideas?

```
% Array dimensions must be greater than 0.  
% Error occurred at: TRI_SURF      136 C:\Program Files\ITT  
\IDL64\lib\tri_surf.pro
```

output_DSM is certainly a 2D array, as I'm able to TVSCL it to view the contents.

output_DSM contains lots of holes (value of 0) which I'd like to interpolate over using TRI_SURF.
