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Subject: Re: ENVI\_INIT\_TILE tiling problem

Posted by [jeffnettlles4870](#) on Sat, 14 Mar 2009 18:11:10 GMT

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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.

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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." <jeffnettlles4...@gmail.com> wrote:

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

```

>
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> 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.

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Subject: Re: ENVI\_INIT\_TILE tiling problem  
Posted by [nitinkgeo](#) on Fri, 10 Apr 2009 10:07:34 GMT  
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On Mar 14, 11:11 pm, "Jeff N." <jeffnettles4...@gmail.com> wrote:

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

>

>

>

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> output_DSM has to be an actual data array. So i think you're giving
> ENVI_INIT_TILE an incorrect argument.
```

Hi Jeff this is Nitin, I am a Research Scholar, and i am also facing same kind of problem during creation of DEM from geoeye pan data(I am using ENVI 4.6). When i run the process in lower level(5th level), process runs smoothly and result come out. but when i run the process in Maximum level(8th) at the end of the process a error appears as "Array dimension is must be greater than 0" will you suggest me, why this kind of error is occurring, is it due to heavy data size.

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