
Subject: Re: save image from ENVI to TIFF file
Posted by [Jeff N.](#) on Mon, 15 Jan 2007 23:07:54 GMT
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You don't need the loop if you're extracting consecutive bands, and you don't really even need the call to `MAKE_ARRAY()`. This can often be done in one step:

```
WRITE_TIFF, 'output_filename.tif', ENVI_GET_DATA(...)
```

The trick is to give `ENVI_GET_DATA()` and `WRITE_TIFF()` the right keywords, and the value of those keywords depends on the size of the input image and the size of the subset of that image you're trying to extract. I typically use `ENVI_FILE_QUERY` to get the number of samples, lines, and bands of my input image and put them in variables like `ns`, `nl`, and `nb`, respectively. You can then build a `DIMS` array for spatial dimensions and a `POS` array for band positions. So, if you wanted to just write the first three bands of an image out to a tif file without spatial subsetting, try something like this:

```
dims = [-1,0, ns - 1, 0, nl - 1]  
pos = [0,1,2]  
WRITE_TIFF, 'output_filename.tif', ENVI_GET_DATA(FID=fid, DIMS=dims,  
POS=pos)
```

But, of course, you will probably need to set the `TRUE` keyword to `WRITE_TIFF()` based on the interleave of the input data (or depending on how you called `ENVI_GET_DATA()`). The basic idea is that you've got to be able to completely and correctly describe the subset of the input image cube that you want to write out. If you do this, you shouldn't have much trouble with either `WRITE_TIFF()` or with `ENVI_OUTPUT_TO_EXTERNAL_FORMAT`. I'd say 95% of the time I have trouble with this sort of task it's b/c a keyword I thought I had right is actually wrong, so just keep working on those keywords and you'll get it. One piece of advice: ALWAYS have both the ENVI and IDL help running while you write code :)

Hope that helps,
Jeff
