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Subject: Re: IDL - ENVI batch mode question  
Posted by [Jeff N.](#) on Tue, 19 Apr 2005 17:02:03 GMT  
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Michael,

If I'm understanding your problem correctly, this is a lot simpler than you think. It sounds like you want to do some basic array manipulation, like this:

Say you have two images, image1 and image2, that have the same column and row dimensions, which we'll call xsize and ysize. You can make the multiband image with simple code:

```
multi_band_image = bytarr(xsize, ysize, 2)
multi_band_image[:,*,0] = image1
multi_band_image[:,*,1] = image2
```

> From there you have lots of options. You can use IDL code to save the image to a file and then use ENVI\_SETUP\_HEAD to write a header, but like you suggest, using ENVI\_WRITE\_ENVI\_FILE seems like the easiest way. It'd look like this:

```
ENVI_WRITE_ENVI_FILE, multi_band_image, out_name='filename.img'
```

Is that what you needed help with? Or were you looking for how to setup ENVI in batch mode? BTW, you can certainly write out a multi-band image to a file without using ENVI at all...could that have been what you were looking for?

Jeff

MMMisha wrote:

```
> Dear all :)
>
> I would like to about the right way to write programmatically
> (throughout IDL - ENVI batch mode) ONE-band image file (byte-format)
as
> a band of the new MULTI-band image.
>
> During the work over some project I m getting a lot of gray-scale
image
> files that I want to write as bands in multi-band image file. Is it
> possible throughout regular way with ENVI_WRITE_ENVI_FILE with some
> specifivations?
>
```

> Thank you in advance  
>  
> Michael

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