
Subject: Re: Error when calling ENVI_WRITE_ENVI_FILE
Posted by [Phillip Bitzer](#) on Mon, 28 Oct 2013 16:34:13 GMT
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Hi Simon-

First, some terminology. You can have an "array of structures". You can also have a "structure with tags that are arrays".

Before we jump into it, the use of help is much more, well, helpful, than print. You'll see this in action below.

Consider this variable:

```
IDL> str = {data:FLTARR(3, 3)}
```

Notice "str" is a structure, and "data" is a tag (or field) of "str". Try this:

```
IDL> help, str
```

So, "str" is in fact a structure. In order to access the tag data, we use:

```
IDL> help, str.data
```

So, str.data (again, the tag "data" in the structure "str") is a 3x3 float array.

Print it if you'd like:

```
IDL> print, str.data
```

This is how you deal with a "structure that has tags that are arrays".

We can take this further. Consider:

```
arrOfStr = REPLICATE(str, 2)
```

Now, 'arrOfStr' is an "array of structures". See for yourself:

```
IDL> help, arrOfStr
```

You can print this too:

```
IDL> print, arrOfStr
```

What you *really* want is the data tag from each structure:

```
IDL> help, arrOfStr.data
```

```
IDL> print, arrOfStr.data
```
