Subject: Writing a dat file and opening in ENVI
Posted by Sarah Douglas on Mon, 26 Jan 2015 14:05:25 GMT

Hi,

I am quite new to IDL so this might be just a basic problem which I am overlooking.

I am trying to write a .dat file of an image which can be read in ENVI. I am able to write the array to the file but then when I open it in ENVI, I get an image with vertical stripes in every other pixel. However, if i re-read the file into IDL, I do not see these stripes.

I believe this could be to do with how ENVI reads .dat files or how the data is written to the file. Here is some example code,

```
 nrows = 382L
 ncols  = 38L
 num_bd = 102
 test_arr  = uintarr(nrows, num_bd, ncols)
for i=0,num_bd-1 do  test_arr(*,i,*) = i+1

 FILENAME = '/home/sarah/Data/Upscaled_pre_SVD/'+ 'test.dat'

 openw, 1, filename
 writeu, 1, test_arr
 close, 1

 result = 0
 result  = uintarr(nrows, num_bd, ncols)
 openr, 1, filename
 readu, 1, result
 close, 1
```

Subject: Re: Writing a dat file and opening in ENVI
Posted by Michael Galloy on Mon, 26 Jan 2015 18:17:08 GMT

On 1/26/15 7:05 AM, Sarah Douglas wrote:
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It's been awhile since I have dealt with ENVI files, but I believe there
is a ASCII .hdr file associated with the .dat file. Did you write that
as well? I think you probably have the interleave mixed up -- either
from writing the .hdr file incorrectly or not having one and ENVI using
some defaults that don't match your data.

Mike
--
Michael Galloy
www.michaelgalloy.com
Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com)
Research Mathematician
Tech-X Corporation