
Subject: Re: Image output display from IDL
Posted by [Chris\[5\]](#) on Fri, 20 Jun 2008 03:38:12 GMT
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Are they truecolor images?

If so, it may be an issue with how the image is passed back and forth in IDL. An n pixel by n pixel color image read into idl (usually) gets stored as a n x n x 3 data cube (plane 0 is R, plane 1 is G, and plane 2 is B). You have to tell IDL which dimension of the array stores these color slices when working with them. In the above example, the third dimension stores the color slices so, if I wanted to display the image in IDL, I would use `tvsc1,im,true=3`. Similarly, if you write out a color image, you usually have to specify which dimension runs through the different colors. Perhaps during the reading and writing stages, you switched this index, meaning that the final image would have all of these weird color/stripe patterns.

Try scanning the IDL help for the "TRUE" keyword

Chris

On Jun 19, 1:42 pm, Raghu <geor...@gmail.com> wrote:

> Hi all,
>
> I wrote a script in IDL which reads multiple images and outputs an
> image according to some conditions i specified.
> The code works, seemingly with no errors and outputs the required
> image. However, when i display the image in ENVI, the output image
> looks like a series of tiles/bands as if the values are grouped line-
> by-line. The statistics are right, but the display looks really weird.
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> I had read something about how IDL stores images but i can't quite
> find the keywords to search for it.
> Does this have to do with any machine settings or is it a setting
> within IDL itself ? Any ideas ?
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> I can attach a graphic if it helps.
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Subject: Re: Image output display from IDL
Posted by [Raghu](#) on Fri, 20 Jun 2008 04:36:06 GMT
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Hi Chris,

These are just gray scale images. I just narrowed down the actual problem. My images are in ERDAS Imagine (.img) floating point data type. When i convert these into floating point again using float(images) in ENVI , the resulting images are in ENVI format. When these ENVI float images are used in the script, the output looks fine. It seems like IDL treats ERDAS' floats differently or i don't quite know if there's something else thats wrong here. I have tried it a few times now and although the header file in ENVI reads the ERDAS files as float, the IDL script seems to do something else when i read the ERDAS files directly.

I'm wondering if i'd have to import all my images into an IDL float type before i start processing. I'd still think that float irrespective of the software would be the same, but i might be wrong.

Ram

On Jun 19, 8:38 pm, Chris <cnb4s...@gmail.com> wrote:

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Subject: Re: Image output display from IDL
Posted by [yp](#) on Fri, 20 Jun 2008 22:51:17 GMT
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On Jun 20, 5:36 am, Raghu <geor...@gmail.com> wrote:

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Unless you change the OS, IDL should treat the floating point grey-scale images (from ERDAS) correctly. Few points you could check - (i) number of pixels and scan-lines (and the size of the file), (ii) how the bands are stored, BIL/BSQ/BIP?

If you are reading Erdas .img files straight in IDL, remember that there will be few bytes recorded as file header. Perhaps you want to export the images/bands as binary flat file(s) before reading in IDL.

Subject: Re: Image output display from IDL
Posted by [Raghu](#) on Sat, 21 Jun 2008 23:31:12 GMT
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On Jun 20, 3:51 pm, Yaswant Pradhan <Yaswant.Prad...@gmail.com> wrote:

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Hi,

It looks like IDL doesn't support ERDAS IMG files. It supports TIFF and my program works with TIFF. As you said, i might have to import the files into a compatible format before i read them in.

Thanks,
Ram