
Subject: Reading 256x256x16bit images

Posted by [Chris Penland](#) on Sun, 16 Jun 1996 07:00:00 GMT

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Hi,

I have a series of MRI slices, each in its own file, that I would like to read into IDL. Each file is a binary file that holds the 256x256 array of 16-bit integers. I can read these files into other, image specific packages like NIH-Image and Osiris. In each case, it doesn't matter if I use 16-bit signed or unsigned. I get the same image. The file size matches $256 \times 256 \times 16 / 8 = 131072$ bytes.

I have been using the following commands on IDL for PowerMac:

```
openr, 1, 'silce214.dat'
a=assoc(1,intarr(256,256))
b=a(1)
```

then I get an "Encountered end of file" error.

If I reduce the size of the intarr by only one unit in either direction, I don't get the end of file error but when I do

tv, b

then I get something that looks nothing like my image. I have tried using a bytarr(256,256) and I don;t run out of file but the image looks like it has been checkerboarded and moved around. Also has a shadow to it due to the additional bytes being read.

Has anyone had this problem....

We want to use IDL to read in the image, process it, contour the tissue in the image based on thresholds, then produce a grid that can be read by our simulation codes. Right now we use 2 different pieces of software for this and would like to trim it down to one good piece of software.

Thanks in advance,
Chris

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