Subject: Re: Writing out TIFF files

Posted by kak on Thu, 25 Jan 1996 08:00:00 GMT

View Forum Message <> Reply to Message

Sangeet Singh <singh@thor.xraylith.wisc.edu> writes:

- > I would like to write out some image arrays in IDL as .tif files. So
- > far I have been able to do this \*only\* by doing a TVSCL of the image
- > followed by a TVRD into a BYTARR which is written using TIFF WRITE.

[stuff deleted...]

- > tvscl,img2,ex,why,ORDER=1
- > tifimg=tvrd(ex,why,col,row)
- > TIFF\_WRITE, filename5, tifimg, 1

Perhaps you did not realize that there is a function BYTSCL, which should do what you want: it scales an array to the range of byte values, so that you can store them as 8bit TIFF file. I guess it's also used internally by tvscl. Therefore:

tifimg=bytscl(img2) tiff\_write,'filename',tifimg

- >; The following results in a tiff file containing only random noise, not
- > ; the real image.
- > ;tifimg=img2
- > ;OR
- > ;tifimg=BYTE(img2)

The attempt with tifimg=byte(img2) must fail because you only see the lowest bitplane of your image which usually contains the camera noise (byte takes the rightmost 8 bits of your integer numbers). If you apply the bitshift operation on your dataset, you can easily travel through the bitplanes of your image: tifimg=byte(ishft(img2,-n)) gives you the n'th bitplane of your image.

Karl