Subject: Array assignment problems
Posted by seanr on Sat, 21 Nov 1998 08:00:00 GMT
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I have a small problem here.

Currently, a program I'm working on has various types of image data that read in to an array, image. Currently, image can be in the format of [m, n, o] or [o,m,n], for example, [512,512,3] or [3,512,512]. I am performing a histo stretch on individual bands in the data, like the following:

```
IDL> print, !version
{ x86 Win32 Windows 5.1.1 Jul 20 1998}
IDL> image = bindgen(3,512,512)
IDL> displayimage = image
IDL> i = 2
IDL> minthresh = 4
IDL> maxthresh = 234
IDL>  displayImage[i,0,0] = BytScl(reform(image[i,*,*]), Max=maxThresh,
Min=minThresh)
% Out of range subscript encountered: DISPLAYIMAGE.
% Execution halted at:  $MAIN$
IDL> image = bindgen(512,512,3)
IDL> displayimage = image
IDL>  displayImage[0,0,i] = BytScl(reform(image[*,*,i]), Max=maxThresh,
Min=minThresh)
```

why does the first (displayimage[i,0,0]) not work, but the second does?

If I enter it as displayimage[i,*,*] =... then it works, but this is a much slower assignment.

I had received the [0,0,i] = ... tip from an RSI engineer. Apparently, it is about 10x faster than doing [*,*,i] = ... I just want it to work for the other case as well!

Any ideas, or is there a better, faster way?

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