Subject: Re: VARRAY, memory & extracting subarrays
Posted by Richard French on Mon, 02 Jul 2001 12:27:08 GMT
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You've probably thought about this, but it appears that your images array is a stack of images (a 3-D array) - if you can get away with processing a single image at a time, or extracting a subsection of each image in succession, you can always use the ASSOC command to set up an associated variable. This is very handy when you are working with a huge number of individual images. For example, let's say you had 20 images of size 500 x 600:

```
images = fltarr(500,600,20)
```

and you wanted to make a sub=array of (100:300, 200:400, 11:14) of this hunk. You could do:

```
openr,lun,/GET_LUN,image_file
image=ASSOC(fltarr(500,600))

sub_array=fltarr(201,201,4)

for i=11,14 do begin
 sub_array[0,0,i]=(image[i])[100:300,200:400]
endfor
```

THis way, you never need to have the entire large image cube in memory at a given time.

I do this all the time for sequences of astronomical images which are stored in time order in an image cube. For your application, it may or may not be a time-saver.

Hope this helps,

Dick French