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Subject: Re: Using ASSOC function  
Posted by [davidf](#) on Thu, 02 Jul 1998 07:00:00 GMT  
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I wrote a little while ago:

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> Bernard Puc (puc@gsfc.nasa.gov) writes:
>
>> Using ASSOC, I can access an image array stored in a datafile. Is it
>> possible to instead select a subimage of that array? I'm looking to
>> optimize the file access speed by not having to read the entire file or
>> array into a variable. Thanks in advance.
>
> If you are asking if you can do this:
>
> file = FilePath(SubDir=['examples', 'data'], 'cereb.dat')
> OpenR, lun, file, /Get_Lun
> images = Assoc(lun, BytArr(512, 512))
> thisPartImage = (images(0))[0:255,256:512]
> Help, thisPartImage
> TV, thisPartImage
>
> Then the answer, amazingly enough, is yes.
```

Ali Bahrami from RSI confirms what I suspected might be the case with this: the entire image is first read and then that temporary variable is subset to give the partial image. To make things a lot faster, you would need to use Point\_Lun in conjunction with ReadU, you would need to keep track of a lot of information, and you would have to be aware of the way the information was actually stored in memory. All in all, it is probably easier to purchase a faster computer.

But even though it doesn't speed things up, I'm still impressed that works. Although knowing that the whole image is read certainly takes some of the mystery out of it. :-)

Cheers,

David

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