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Subject: Re: reading multiple HDF files

Posted by [Juggernaut](#) on Tue, 15 Jul 2008 17:50:22 GMT

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On Jul 15, 11:05 am, David Fanning <n...@dfanning.com> wrote:

> julia.waltersp...@gmail.com writes:

>> In the meantime I did the file\_search and read in file by file with a  
>> for-loop. But I guess this solution does not append the "newly" read  
>> Variable to the other ones so that I can do a plot of a time series..?

>

> You will probably have to do that yourself. :-)

>

> But, I imagine this array can get pretty big. I think I would  
> write the files to disk, then read them back in using  
> the associated variable method (ASSOC) when you need them.

>

```
> OpenW, outlun, 'mybigfile.dat', /Get_Lun
> FOR thisFile = 0, count-1 DO BEGIN
>   thisImage = HDF_READ(files[thisFile], ....)
>   WriteU, outlun, thisImage
> ENDFOR
> Free_Lun, outlun
```

>

> Then, later:

>

```
> OpenR, lun, 'mybigfile.dat', /Get_Lun
> imageStack = Assoc(lun, IntArr(xsize, ysize))
```

>

> To display the 4th image:

>

```
> TV, imageStack[3]
```

>

> Or, whatever else you want to do with them.

>

> If you want them all, of course:

>

```
> stack = IntArr(xsize, ysize, count)
> OpenR, lun, 'mybigfile.dat', /Get_Lun
> ReadU, lun, stack
> Free_Lun, lun
```

>

> Of course, your images might not be integer arrays, and  
> I have no idea what size these are, etc., etc. Use this  
> code at your discretion. :-)

>

> Cheers,

>

> David

- > --
- > David Fanning, Ph.D.
- > Fanning Software Consulting, Inc.
- > Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
- > Sepore ma de ni thui. ("Perhaps thou speakest truth.")

If you want to compare these in a plot you'll probably need to normalize your time series as this could be different for them all although I don't know if MODIS has a 0 start of collect time or a zulu start of collect time, etc...

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