
Subject: Re: "Unable to allocate memory" when using H5_parse iteratively

Posted by [robindesvolcans](#) on Mon, 21 Apr 2014 23:40:50 GMT

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Hi David and Thank You for your reply.

I added this line in my code but unfortunately the problem remains. Indeed the memory use increases with time, and the error occurs when it reaches about 350 Mb (on a total of 2000) I tried processing the data by smaller bunches, but it happens that after processing without problem a smaller bunch of 05 files, the program bugs when i run it for processing the next one, for the same error.

Le lundi 21 avril 2014 17:09:24 UTC-5, David Fanning a écrit :

> robindesvolcans@gmail.com writes:

>

>

>

>> I'm Robin, a new member on this group, using IDL to process satellite images for volcano monitoring.

>

>> I've written a code to process large number of data from the ozone monitoring instrument. These are HDF5 files weighing 28 Mb each.

>

>> The code interactively calls the H5_parse function to open the files

>

> and extract the necessary variables, which undergo some basic processing

>

> (gridding, mapping and calculating the total SO2 mass) The variables are

>

> overwritten at each loop iteration. However after 30-40 iterations the

>

> H5_parse function returns me the unable to allocate memory error

>

> message. It looks as if the H5_parse function was not emptying its

>

> temporary memory use, but when i look at the task manager's display of

>

> the memory use, it stays constant and low (20%).

>

>> Does someone have an idea of how to solve the problem?

>

>

>

> You may be overwriting the variables, but it is extremely unlikely you

>

> are cleaning up all the pointers and other heap variables returned by

>

> the H5_Parse function. I would try doing this at the end of each file

>

```
> processed:
>
>
>
>   for j=0,whatever do begin
>     h5data = HD_Parse(file[j])
>
>     ...
>
>     Heap_Free, h5data
>
>   endfor
>
>
>
> Cheers,
>
>
>
> David
>
> --
>
> David Fanning, Ph.D.
>
> Fanning Software Consulting, Inc.
>
> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")
```
