Subject: Re: "Unable to allocate memory" when using H5_parse iteratively
Posted by David Fanning on Mon, 21 Apr 2014 22:09:24 GMT
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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
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Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")