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Subject: Re: Input Files - Size Limit?

Posted by [sritcey](#) on Wed, 21 May 1997 07:00:00 GMT

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Mark Harvey:

: Can IDL handle extremely large files?

David Fanning:

> Large files are usually not a problem with IDL, as long  
> as you don't read all the data into memory at once. Use  
> the associated variable method to read just that portion  
> of the data you need at any one time

Christian Marquardt:

: But: assoc is called with an [...]

: 'array\_structure'. Thus, to assoc() my 120MB array stored

: in 'foo.dat', I'd use something like

: openr, unit, 'foo.dat', /get\_lun

: a = assoc(unit, fltarr(very\_large\_number\_of\_elements))

: ...

: free\_lun, unit

: Now, the IDL interpreter will first create the fltarr(...),

: and then pass the very large array over to the assoc function.

: The problem: if the fltarr(...) is larger than the (virtual)

: memory of my machine, IDL will not assoc anything but stop

: with a warning saying that there is not enough memory (I know -

: I tried...).

David has already replied, agreeing that it's a problem, but not mentioning the following workaround:

When I first read David's message I assumed that he meant using something like

```
a = assoc (unit, fltarr (a_not_impossibly_large_number), $  
            offset = get_me_where_I_want_to_be)
```

And now 'walk' through the file, repeatedly re-assoc-ing with larger and larger offsets. Now I agree that doing this 'manually' is a pain, but it is workable if the format of the data file is such that it make sense to take 'chunks' like this.

[PVWave, not IDL: does it matter?]

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