## Subject: Re: Input Files - Size Limit? Posted by marq on Wed, 21 May 1997 07:00:00 GMT View Forum Message <> Reply to Message

Hi David.

in your response to Mark you wrote:

- > Mark Harvey <mark@vortex.shm.monash.edu.au> writes:
- >
- >> Hi. I'm pretty much an IDL rookie but have been handed quite
- >> a big project developing an IDL-based analysis and
- >> visualisation package for meteorological data.

>>

- >> My question is this: can IDL handle extremely large files (in
- >> various data formats) without crashing out? I'm thinking of
- >> sizes in the region of 100mb+.

>

> Sure, put it into the variable "a". :-)

>

- > 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, and practice good

Hmm. You say one should use assoc? But: assoc is called with an (as the documentation of IDL 5.6 beta 6 calls it) '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...).

Thus: it seems to me that assoc can be used only if the data stored in the file would fit into the memory. Or to make a question out of it: is there a way to use assoc()
\_without\_letting IDL trying to allocate all the memory at once?

Thanks a lot...

> On, and ask for a machine that has "LOTS" of RAM!	
Or is that the only solution left?	
Regards from Berlin,	
Chris.	
Christian Marquardt	
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