Subject: Re: Read ASCII

Posted by davidf on Wed, 07 Jan 1998 08:00:00 GMT

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David Mottershead (DMottershead@mhl.nsw.gov.au) writes from down under:

- > I am trying to read in some ASCII data in a column form with a format
- > defined in my main procedure like this:

```
> fileData = {WBD_File, $
> yr:0, $
> mn:0, $
> day:0, $
> hour:0, $
> minute:0, $
> value:0.0}
```

[much code clipped]

I've read this post over quite a few times, and I am still not *totally* sure I understand what you are trying to do. It looks to me like you have column data in the form of 6 columns by 35136 rows. Going on that assumption, I would say you are trying to do too much all at once. Take it a little bit slower.

I might try it like this. I would make my info structure, which is where I store *all* of the information I need to make my program work, with a field for the data template and another field for the data itself. It might be defined like this:

And just from this one code example, I'm guessing this program could use a little modularity. I would probably define the Open File button like this, so I could work with a smaller event handler:

```
openfileID = Widget_Button(menubase, Value='Open File...', $
Event Pro='Open File Button Event')
```

```
So, then, my event handler might look something like this:
 PRO Open_File_Button_Event, event
   ; Get the data file name from the user.
 filename = Dialog_Pickfile(/Read, Filter='*.dat')
 IF filename EQ "THEN RETURN
   ; Go read the file. First, get the info structure.
 Widget Control, event.top, Get UValue=info, /No Copy
   ; Create an array of structures. Read the data.
 dataArray = Replicate(info.template, info.rows)
 OpenR, lun, filename, /Get Lun
 Readf, lun, info.header, dataArray
 Free Lun, lun
   ; Make the data vectors.
 yr = dataArray(*).(0)
 mn = dataArray(*).(1)
 day = dataArray(*).(2)
 hour = dataArray(*).(3)
 minute = dataArray(*).(4)
 value = dataArray(*).(5)
    ; Store data as structure in the pointer location.
 info.data = Ptr_New({yr:yr, mn:mn, day:day, hour:hour, $
   minute:minute, value:value}, /No_Copy)
 Widget_Control, event.top, Set_UValue=info, /No_Copy
 END
Now, any module that needs to do something with the data
can access it like this:
 Plot, (*info.data).day, (*info.data).value
Hope that gives you some ideas.
Cheers.
David
```

P.S. You might also look at the two new functions ASCII_TEMPLATE and READ_ASCII. They are made specifically to read this kind of column data.

David Fanning, Ph.D.

Fanning Software Consulting E-Mail: davidf@dfanning.com

Phone: 970-221-0438

Coyote's Guide to IDL Programming: http://www.dfanning.com/