Subject: Re: Help needed with reading ASCII data Posted by John Keck on Fri, 03 Dec 1999 08:00:00 GMT

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- > I'm completely new to IDL, and I have a set of data in ASCII format. It
- > is extracted from MRI data. It is a file which contains 3 columns of
- > data. The first column is the x, the second is the y coordinate and the
- > third is just a scaled magnitude value between 0 and 1. There are 38808
- > rows of data, and the matrix size is (49, 36) and there are 22 time
- > phases. I want to know if anyone has had experience in reading in data
- > of this type, and how to put it into an array that can be read by IDL.

Dear Scott,

The easier thing to do (programming-wise) is to use the READCOL procedure, which I believe is part of one of the standard libraries that you can download (you can search these libraries from http://www.astro.washington.edu/deutsch/idl/htmlhelp/index.h tml)

Your data file is a bit big though, so that may take quite a while. I've found a much faster way to read in big files is to set up a structure and a print-type format to read in the data. Something like this:

```
filename = "foo.dat"
fmt = "(i3,3F7.2)"; of course this has to match the format of your
columns
```

```
cog = {det $
,t: 0 $
,x: 0. $
,y: 0. $
,z: 0.)
```

all = REPLICATE(cog,nl); NL = # lines in file

OPENR,lun,/GET_LUN,filename READF,lun, FORMAT=fmt,all FREE_LUN,lun END

Anyway, that should read in your file at one blow. You can then re-arrange the data in your arrays as you like. (You may want to look up the IDL help files on structures; it might be helpful to know that you can address the fields of a structure with numbers and can to a large extent treat a structure as an array.)

I hope that's helpful.

Sincerely,

John Keck