
Subject: Re: Help needed with reading ASCII data
Posted by [Liam Gumley](#) on Fri, 03 Dec 1999 08:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

Scott Reid wrote:

```
> 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.
> I know how to open the data and display it, with the following
>
> openr, 1, filepath(..)
> :
> : HELP WITH THE READING OF THE ACII DATA PLEASE!!!!!!
> :
> :
> h=fltarr(49,36,22)
> close, 1
> loadct, 3
> h = rebin(h, 32, 32, 22)
> frames = fltarr(256, 256, 22)
> window, 1, TITLE='Bloodflow animation', xsize=256, ysize=256
> for i=0, 22 do begin surface, h[* , * , i], zrange=[0, 1] & frames[0,0,i]
> = tvrd() & end
>
> If anyone could help me with reading the ASCII data and putting it into
> an array which IDL can read, I would be most grateful
```

I'm assuming your data file looks something like this:

```
0, 0, 0.998
1, 0, 0.976
2, 0, 0.876
```

It sounds like you're not really interested in the x and y coordinates, since they are probably the same for all 22 time phases. In this case, you can read the array in one hit:

```
;- Read the data file
openr, lun, 'mri.dat', /get_lun
data = fltarr(3, 38808)
readf, lun, data
free_lun, lun
```

```
;- Extract the magnitude array
```

```
h = data[2, *]  
h = reform(h, 49, 36, 22)
```

```
;- Visualize the data as an image sequence
```

```
mag = 5
```

```
for index = 0, 21 do tvscl, rebin(h[*], *, index], mag*49, mag*36, 1,  
/sample)
```

Cheers,
Liam.

--

Liam E. Gumley
Space Science and Engineering Center, UW-Madison
<http://cimss.ssec.wisc.edu/~gumley>
