
Subject: reading data with numbers and strings from data file

Posted by [abc](#) on Thu, 06 Nov 2014 10:40:52 GMT

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Dear All,

I am having little trouble in reading some ASCII files. The data I am having in my ASCII files is as follows:

saved results 20

```
128 37
1.5000D+02 1.0168D+10 0.0000D+00 1.0000D-03 0 4 4 0.0000D+00 1.0168D+10
0.000000000000000000D+00 1.000000000000000006D-09 1.76210484793750211D-09
3.10501349512486019D-09 5.47135933267088403D-09 9.64110880490750049D-09
1.69886445646204793D-08 2.99357729472049009D-08 5.27499706370261988D-08
9.29509789880649348D-08 1.63789370695406457D-07 2.88614044143008960D-07
5.08568206367245386D-07 8.96150501946604958D-07 2.23094262494154714D-06
4.30065583610536799D-06 6.73281626852004125D-06
A1 0 0
3.03178442790896588D+03 3.03178442790896588D+03 3.03814926483268664D+03
3.03955417139188103D+03 3.03822673621599688D+03 3.03985650457928796D+03
3.04657676876905316D+03 3.05405168962787593D+03 3.05040386156178738D+03
3.01543371816092713D+03 2.97921155702434407D+03 2.97680212751912359D+03
2.99000791149612724D+03 3.00042444894014034D+03
B1 0 0
3.03178442790896588D+03 3.03178442790896588D+03 3.03814926483268664D+03
3.03955417139188103D+03 3.03822673621599688D+03 3.03985650457928796D+03
3.04657676876905316D+03 3.05405168962787593D+03 3.05040386156178738D+03
3.01543371816092713D+03 2.97921155702434407D+03 2.97680212751912359D+03
2.99000791149612724D+03 3.00042444894014034D+03
C1 0 0
a b c d e f
a b c d e f
a b c d e f
a b c d e f
a b c d e f
a b c d e f
```

I want to skip first 3 rows and then want to read the data in way that it will store all data corresponding to A1 in array in A1. Similarly data corresponding to B1 in array in B1 and so on. I want to skip all the data after C1. If some one know how to do that in IDL then it will be really appreciable.

Thanks in advance

Subject: Re: reading data with numbers and strings from data file
Posted by [greg.addr](#) on Thu, 06 Nov 2014 13:19:55 GMT
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this should do it

```
openr,1,filename
```

```
s=""  
read,1,s  
read,1,s  
read,1,s
```

```
a1=dblarr(14) ;I'm guessing all your arrays have 14 elements, and that other stuff is from your 3rd  
line
```

```
read,1,a1  
read,1,s
```

```
b1=dblarr(14)  
read,1,b1  
read,1,s
```

```
c1=dblarr(14)  
read,1,c1  
read,1,s
```

```
close,1
```

```
cheers,  
Greg
```

Subject: Re: reading data with numbers and strings from data file
Posted by [abc](#) on Thu, 06 Nov 2014 14:04:28 GMT
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On Thursday, November 6, 2014 11:40:54 AM UTC+1, deear...@gmail.com wrote:

> Dear All,

> I am having little trouble in reading some ASCII files. The data I am having in my ASCII
files is as follows:

```
>  
> saved results    20  
> 128 37  
> 1.5000D+02 1.0168D+10 0.0000D+00 1.0000D-03 0 4 4 0.0000D+00 1.0168D+10  
> 0.00000000000000000000D+00 1.0000000000000000006D-09 1.76210484793750211D-09  
> 3.10501349512486019D-09 5.47135933267088403D-09 9.64110880490750049D-09  
> 1.69886445646204793D-08 2.99357729472049009D-08 5.27499706370261988D-08
```

```

> 9.29509789880649348D-08 1.63789370695406457D-07 2.88614044143008960D-07
> 5.08568206367245386D-07 8.96150501946604958D-07 2.23094262494154714D-06
> 4.30065583610536799D-06 6.73281626852004125D-06
> A1 0 0
> 3.03178442790896588D+03 3.03178442790896588D+03 3.03814926483268664D+03
> 3.03955417139188103D+03 3.03822673621599688D+03 3.03985650457928796D+03
> 3.04657676876905316D+03 3.05405168962787593D+03 3.05040386156178738D+03
> 3.01543371816092713D+03 2.97921155702434407D+03 2.97680212751912359D+03
> 2.99000791149612724D+03 3.00042444894014034D+03
> B1 0 0
> 3.03178442790896588D+03 3.03178442790896588D+03 3.03814926483268664D+03
> 3.03955417139188103D+03 3.03822673621599688D+03 3.03985650457928796D+03
> 3.04657676876905316D+03 3.05405168962787593D+03 3.05040386156178738D+03
> 3.01543371816092713D+03 2.97921155702434407D+03 2.97680212751912359D+03
> 2.99000791149612724D+03 3.00042444894014034D+03
> C1 0 0
> a b c d e f
> a b c d e f
> a b c d e f
> a b c d e f
> a b c d e f
> a b c d e f
>
>
>
> I want to skip first 3 rows and then want to read the data in way that it will store all data
corresponding to A1 in array in A1. Similarly data corresponding to B1 in array in B1 and so on. I
want to skip all the data after C1. If some one know how to do that in IDL then it will be really
appreciable.
>
> Thanks in advance

```

Thanks Greg, for your help. But the data which I posted is just a example. My file is very huge and I am having more then 14 elements. Though I tried the way you wrote but it didn't work :-(.

Subject: Re: reading data with numbers and strings from data file
 Posted by [greg.addr](#) on Thu, 06 Nov 2014 15:14:53 GMT
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You probably need to explain where it went wrong. It doesn't help that we can't see where the line wraps occur in your post.

Greg

Subject: Re: reading data with numbers and strings from data file

On Thursday, November 6, 2014 11:40:54 AM UTC+1, deear...@gmail.com wrote:

> Dear All,

> I am having little trouble in reading some ASCII files. The data I am having in my ASCII files is as follows:

>
> saved results 20
> 128 37
> 1.5000D+02 1.0168D+10 0.0000D+00 1.0000D-03 0 4 4 0.0000D+00 1.0168D+10
> 0.000000000000000000D+00 1.00000000000000006D-09 1.76210484793750211D-09
> 3.10501349512486019D-09 5.47135933267088403D-09 9.64110880490750049D-09
> 1.69886445646204793D-08 2.99357729472049009D-08 5.27499706370261988D-08
> 9.29509789880649348D-08 1.63789370695406457D-07 2.88614044143008960D-07
> 5.08568206367245386D-07 8.96150501946604958D-07 2.23094262494154714D-06
> 4.30065583610536799D-06 6.73281626852004125D-06

> A1 0 0
> 3.03178442790896588D+03 3.03178442790896588D+03 3.03814926483268664D+03
> 3.03955417139188103D+03 3.03822673621599688D+03 3.03985650457928796D+03
> 3.04657676876905316D+03 3.05405168962787593D+03 3.05040386156178738D+03
> 3.01543371816092713D+03 2.97921155702434407D+03 2.97680212751912359D+03
> 2.99000791149612724D+03 3.00042444894014034D+03

> B1 0 0
> 3.03178442790896588D+03 3.03178442790896588D+03 3.03814926483268664D+03
> 3.03955417139188103D+03 3.03822673621599688D+03 3.03985650457928796D+03
> 3.04657676876905316D+03 3.05405168962787593D+03 3.05040386156178738D+03
> 3.01543371816092713D+03 2.97921155702434407D+03 2.97680212751912359D+03
> 2.99000791149612724D+03 3.00042444894014034D+03

> C1 0 0
> a b c d e f
> a b c d e f
> a b c d e f
> a b c d e f
> a b c d e f
> a b c d e f

>

>

>

> I want to skip first 3 rows and then want to read the data in way that it will store all data corresponding to A1 in array in A1. Similarly data corresponding to B1 in array in B1 and so on. I want to skip all the data after C1. If some one know how to do that in IDL then it will be really appreciable.

>

> Thanks in advance

If the "format" of your file is not simple, I would first read your entire file to a string array. Then transfer ascii encoded data to binary array as needed.

For instance:

```
n = file_lines(filename)
s = strarr(n)
openr, lun, /GET_LUN, filename
readf, lun, s
free_lun, lun
```

```
w1 = where(strpos(s, 'A1') ge 0) ;search number of lines containing 'A1' and 'B1'
w2 = where(strpos(s, 'B1') ge 0) ;you can adapt those tests as needed
```

```
;extracting relevant lines
ss = strsplit(s[w1+1:w2-1], ' ', COUNT=nn, /EXTRACT)
;creating binary data
a1 = dblarr(nn)
reads, ss, a1
```

etc...

alx.
