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Subject: Re: A (too?) simple question about importing data  
Posted by [Craig Markwardt](#) on Thu, 22 Jun 2000 07:00:00 GMT  
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q4668057@bonsai.fernuni-hagen.de (Michael Spranger) writes:

```
> Hi,  
> another beginner's question, this time about reading data:  
> I want to read data from ASCII files into a structure. The data look  
> as follows:  
>  
> YYYY MM DD HH II SSSSS PPPPPP LLLLLLL KKK RRR  
> 0330 00 00 00 00 00000 50.60 03.40 000 0.0 USGS_EU_Catalogue  
>  
> the structure, type, and length of variables are always the same, only  
> the the order might change and some data might be missing. The last  
> row (without header) contains comments only.
```

It's a beginner's \*and\* advanced user's question. My suggestion is to try TRANSREAD available from my web page. It attempts to make it easy to read lots of data from a file. [ To get the formatting right I suggest using the /DEBUG option. ]

I made a file called test.dat with the following lines:

```
YYYY MM DD HH II SSSSS PPPPPP LLLLLLL KKK RRR  
0330 00 00 00 00 00000 50.60 03.40 000 0.0 USGS_EU_Catalogue  
0340 00 00 00 00 00000 124.56 03.40 000 0.0 Test line 1  
0350 00 00 00 00 00000 789.01 03.40 000 0.0 Test line 2
```

And then executed the following commands:

```
IDL> yyyy = 0L & mm = 0L & dd = 0L & hh = 0L & ii = 0L & sssss = 0L  
IDL> pppppp = 0D & llllll = 0D & kkk = 0L & rrr = 0D & ccc = "  
IDL> transread, unit, yyyy, mm, dd, hh, ii, sssss, pppppp, llllll, kkk, $  
    rrr, ccc, format='(I5,I3,I3,I3,I3,I6,D7,D8,I4,D4,A0)', file='test.dat'  
IDL> print, yyyy  
    330    340    350
```

The first two lines establish the types of each variable -- I used the column headers you provided. The third line is the actual invocation of TRANSREAD. The format keyword is vital, and may take some experimentation. Note that lines that don't match the format are skipped automatically, you can define comment characters, and you can specify start/stop "cues" to enable/disable parsing.

Craig  
<http://cow.physics.wisc.edu/~craigm/idl/idl.html>

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Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response  
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