Subject: Re: how to read a data file
Posted by Peter Clinch on Wed, 03 May 2006 08:05:26 GMT
View Forum Message <> Reply to Message

nalaka.kodituwakku@gmail.com wrote:
> I am new bee to IDL
>
> I have a data set look like

<snip>

> Can some one tell me how to write IDL code to read this data in a
> formatted way?

Have a look in the User Guide (online of paper). "Getting Started With
IDL" includes "Reading and Writing Data".

READF and READ_ASCII are functions to look at.

Pete.
--
Peter Clinch   Medical Physics IT Officer
Tel 44 1382 660111 ext. 33637   Univ. of Dundee, Ninewells Hospital
Fax 44 1382 640177   Dundee DD1 9SY Scotland UK
net p.j.clinch@dundee.ac.uk   http://www.dundee.ac.uk/~pjclinch/

Subject: Re: how to read a data file
Posted by nalaka.kodituwakku on Wed, 03 May 2006 20:34:50 GMT
View Forum Message <> Reply to Message

Yes, I did before puting this post but seems like there is some thing
that i do wrong.

This the code i wrote to read the first line. hopeing if this works i
could write a loop to read the rest. but didn't work.Can some one see
waht is wrong here? I tried with out the format too.this is the code

pro import_test

cts=INTARR(500)
Lable1=STRARR(500)
xvalues = fltarr(500)
yvalues = fltarr(500)
zvalues = fltarr(500)
Atom=STRARR(500)

```
openr, 105, 'sym1.mol2'

readf, 105, c, l, x, y, z, a, format='(d2, A3, f5.4, f5.4, f5.4, a2)'
print, c, l, x, y, z, a, format='(d2, a3, f5.4, f5.4, f5.4, a2)'
close, 105
free_lun,105
END
```

Subject: Re: how to read a data file
Posted by Paul Van Delst[1] on Wed, 03 May 2006 20:40:33 GMT

nalaka.kodituwakku@gmail.com wrote:
> Yes, I did before puting this post but seems like there is some thing
> that i do wrong.
>
> This the code i wrote to read the first line. hopeing if this works i
> could write a loop to read the rest. but didn't work.Can some one see
> waht is wrong here? I tried with out the format too.this is the code
>
> pro import_test
>
> cts=INTARR(500)
> Lable1=STRARR(500)
> xvalues = fltarr(500)
> yvalues = fltarr(500)
> zvalues = fltarr(500)
> Atom=STRARR(500)
>
>
> openr, 105, 'sym1.mol2'
>
> readf, 105, c, l, x, y, z, a, format='(d2, A3, f5.4, f5.4, f5.4, a2)'
> print, c, l, x, y, z, a, format='(d2, a3, f5.4, f5.4, f5.4, a2)'

what are c, l, x, y, z, a ?

what error does IDL spit back at you?

> close, 105
> free_lun,105
> END
>

--

Paul van Delst   Ride lots.
CIMSS @ NOAA/NCEP/EMC   Eddy Merckx
Ph: (301)763-8000 x7748
Fax:(301)763-8545

Subject: Re: how to read a data file
Posted by nalaka.kodituwakku on Wed, 03 May 2006 21:05:44 GMT
View Forum Message <> Reply to Message

As in the first post i have 6 coloums. I am trying to read the first
row. so "c, l, x, y, z, a"   are my 6 datas in first row.

The error i get is
READF: Input file conversion error. unit : 105 File sym1.mol2

thank you very much for your time

Nalaka

Subject: Re: how to read a data file
Posted by Paul Van Delst[1] on Wed, 03 May 2006 21:50:43 GMT
View Forum Message <> Reply to Message

nalaka.kodituwakku@gmail.com wrote:
> Paul Van Delst wrote:
>> nalaka.kodituwakku@gmail.com wrote:
>>
>>> Yes, I did before puting this post but seems like there is some thing
>>> that i do wrong.
>>>
>>> This the code i wrote to read the first line. hopeing if this works i
>>> could write a loop to read the rest. but didn't work.Can some one see
>>> waht is wrong here? I tried with out the format too.this is the code
>>>
>>> pro import_test
>>>
>>> cts=INTARR(500)
>>> Lable1=STRARR(500)
>>> xvalues = fltarr(500)
>>> yvalues = fltarr(500)
>>> zvalues = fltarr(500)
>>> Atom=STRARR(500)
>>>
>>>

```
>>>  openr, 105, 'sym1.mol2'
>>>
>>>  readf, 105, c, l, x, y, z, a, format='(d2, A3, f5.4, f5.4, f5.4, a2)'
>>>  print, c, l, x, y, z, a, format='(d2, a3, f5.4, f5.4, f5.4, a2)'
>>
>>
>>
>>  what are c, l, x, y, z, a ?
>>
>>  what error does IDL spit back at you?
>>
>  As in the first post i have 6 coloums. I am trying to read the first
>  row. so "c, l, x, y, z, a"   are my 6 datas in first row.
```

Yes, but my point was that you do the following:
```
  cts=INTARR(500)
  Lable1=STRARR(500)
  xvalues = fltarr(500)
  yvalues = fltarr(500)
  zvalues = fltarr(500)
  Atom=STRARR(500)
```
but then use
```
  c, l, x, y, z, a
```
to do the reading.

How is IDL to know what type each of those variables are? Maybe it can figure it out from the context, but I doubt it (and wouldn't trust it if it could :o)

What happens if you do something like:

```
  cts=INTARR(500) &      c=cts[0]
  Lable1=STRARR(500) &    l=Lable1[0]
  xvalues = fltarr(500) & x=xvalues[0]
  yvalues = fltarr(500) & y=yvalues[0]
  zvalues = fltarr(500) & z=zvalues[0]
  Atom=STRARR(500) &      a=Atom[0]

  openr, 105, 'sym1.mol2'

  readf, 105, c, l, x, y, z, a, format='(d2, A3, f5.4, f5.4, f5.4, a2)'
  print, c, l, x, y, z, a, format='(d2, a3, f5.4, f5.4, f5.4, a2)'
```

?

paulv

p.s. I think I got the syntax right, but not sure.

p.p.s. Is "d2" a valid format specifier? Maybe you meant "i2"?

--
Paul van Delst   Ride lots.
CIMSS @ NOAA/NCEP/EMC   Eddy Merckx
Ph: (301)763-8000 x7748
Fax:(301)763-8545

Subject: Re: how to read a data file
Posted by nalaka.kodituwakku on Mon, 08 May 2006 14:26:52 GMT
View Forum Message <> Reply to Message

Thanks guys,

It did work, both i2 and d2 are work too. Still I don't know the
different between them.
thank you very much for your time

Nalaka.