
Subject: Re: read a file written in fortran
Posted by [penteado](#) on Mon, 07 Jun 2010 19:34:36 GMT
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On Jun 7, 4:27 pm, bing999 <thibaultga...@gmail.com> wrote:

> Hi,
> I want to read with IDL an ascii file written in Fortran 90.
>
> The file contains two types of data: double floats and "logical". For
> the floats no problem but for the logical (which writes either T or F
> (for true or false) in the ascii file) i get " READF: End of file
> encountered" while doing:
>
> my_float = 0.0d0
> my_logical='a'
>
> readf,11,format='(1e14.6,A1)', my_float,my_logical
>
> Is there anything wrong in the format or in the initialization?
>
> Thanks in advance!

It depends on what is in the file you want to read. Can you show what it looks like?

Subject: Re: read a file written in fortran
Posted by [Thibault Garel](#) on Mon, 07 Jun 2010 19:42:45 GMT
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It contains rows all equivalent to the one below:

```
0.207720E-03 0.245036E+02 0.497323E+01 0.116080E+22 0.156774E+01  
0.615295E-04 0.893258E-06 0.100000E+01 0.145065E-01T
```

cheers

Subject: Re: read a file written in fortran
Posted by [penteado](#) on Mon, 07 Jun 2010 19:54:33 GMT
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On Jun 7, 4:42 pm, bing999 <thibaultga...@gmail.com> wrote:

> It contains rows all equivalent to the one below:
>
> 0.207720E-03 0.245036E+02 0.497323E+01 0.116080E+22 0.156774E+01
> 0.615295E-04 0.893258E-06 0.100000E+01 0.145065E-01T

You are telling IDL to read just one 14-digit float, followed by one character. That will be the first number, followed by the "0" that happens to be the character at position 15. That in itself would not cause that error, though presumably is not what you want, since the logical variable is printed at the end of the line. Do you want to read all 9 numbers, plus the logical value, or just one, skip the middle columns, then the logical value?

I am guessing your read statement is in some loop, so that it kept trying to read, and reached the end of the file. If you show it, it may become clear why this is failing.

Subject: Re: read a file written in fortran

Posted by [Thibault Garel](#) on Mon, 07 Jun 2010 20:20:38 GMT

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> You are telling IDL to read just one 14-digit float, followed by one
> character. That will be the first number, followed by the "0" that
> happens to be the character at position 15. That in itself would not
> cause that error, though presumably is not what you want, since the
> logical variable is printed at the end of the line. Do you want to
> read all 9 numbers, plus the logical value, or just one, skip the
> middle columns, then the logical value?
>
> I am guessing your read statement is in some loop, so that it kept
> trying to read, and reached the end of the file. If you show it, it
> may become clear why this is failing.

What I do in fact is:

```
readf,11,format='(9e14.6,A1)', a,b,c,d,e,f,g,h,i,my_logical
```

where a,b,c.... are initialized to 0.0d0

Subject: Re: read a file written in fortran

Posted by [Thibault Garel](#) on Tue, 08 Jun 2010 09:31:09 GMT

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For information, here is how I wrote the file in fortran:

```
write(my_unit,'(9e14.6,L1)') a,b,c,d,e,f,g,h,i,my_logical
```

Then, how to read a L1 format in IDL?

thanks
