
Subject: Re: IDL/FORTRAN File Reading
Posted by [penteado](#) on Tue, 09 Jun 2009 02:47:06 GMT
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On Jun 4, 2:04 pm, robparke...@gmail.com wrote:

> This might be a bit of a strange request but I'm hoping we have some
> multi-skilled people here who might be able to help.

>

> I have a file written by some fortran code as a "f77_unformatted"
> file.

>

> I've managed to figure out how to read this in in IDL and I've done as
> follows:

>

> header = strarr(80,1)

> openr,unit,filename, /f77_unf,/get_lun

>

> i=0

> while ~ eof(unit) do begin

>

> readu,unit,header

> b = 0.0d0

> c = 0.0d0

> e = 0.0d0

> f = 0L

> g = 0.0

> readu,unit,b,c,e,f,nlo

>

> if f EQ -99 then break

>

> a=dblarr(f,1)

> readu,unit,a

>

> case i of

> 0: BEGIN

> data=a

> END

> data=[data, a]

> END

> endcase

>

> i=i+1

> endwhile

>

> close, unit

> free_lun, unit

>

> This reads in b,c,d,e,f and then f is used to determine how big a is

> and then that chunk of data is read in. It then repeats with a new
> value of f being read in which defines a new chunk of a and so on
> until the EOF.
>
> That's probably a lot simpler than I described it.
>
> Anyway my problem is that whilst I can do this in IDL, ironically I
> can't figure out how to do it in FORTRAN. As i'm just about at the
> "hello world" stage that's not surprising but I thought it would
> simply be a case of defining my variables as the correct type and then
> just using the fortran READ command but that spits out the wrong
> values. I was hoping that someone capable in both IDL and FORTRAN
> might be able to "translate" between the two for me.

Your description seems to be sufficient, but it would be easier if
there was a sample of the kind of file to read.
