Subject: IDL/FORTRAN File Reading

Posted by robparker23 on Thu, 04 Jun 2009 17:04:22 GMT

View Forum Message <> Reply to Message

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=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.