
Subject: R: How to call fortran subroutine?

Posted by [StefanoM](#) on Thu, 12 Apr 2001 09:58:57 GMT

[View Forum Message](#) <> [Reply to Message](#)

Sadly, IDL cannot call directly a fortran subroutine, but it must be compiled into a DLL. Then you can use `call_external` ... the things are complicated by the fact that IDL and Fortran require the parameters to be passed in different ways: by value and by reference (see my post the 10/04/01). There is an example in the distribution of IDL, but I was not able to make it work. I you will find the way to do this, please let me know.

regards

Stefano

web <jiali3@21cn.com> wrote in message 9b2soc\$28d\$1@mail.cn99.com...

> Hi, I havenot find a perfect example on how to call fortran subroutine from

> idl.

>

> For example, `a(0)` and `a(1)` are computed in an IDL program, I want a fortran

> subroutine to compute `c=a(0)+a(1)`. After `c` has been returned, `d=a(0)+a(1)+c`

> is computed in IDL. How to do that? I think we will know how to call fortran

> subroutine if we can do above.

>

> 1.IDL PROGRAM: test.pro

>

> pro test

> a=fltarr(2)

> a(0)=100 & a(1)=200

> call_external sum_fortran(a,c)

> d=a(0)+a(1)+c

> print,a,c,d

> end

>

> 2.FORTRAN SUBROUTINE: sum_fortran.f

>

> subroutine sum_fortran(a,c)

> dimension a(2)

> c=a(1)+a(2)

> return

> end

>

> Would you please help me to modify the above and tell me how to run?
>
> Can fortran call idl program?
>
> Best regards
> Jiali
>
>
>
>
>
