
Subject: Re: Guide: how to call Fortran from IDL in a portable and standard F 2003 way

Posted by [Lajos Foldy](#) on Thu, 27 Feb 2014 17:34:10 GMT

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

On Thursday, February 27, 2014 5:51:08 PM UTC+1, negri...@gmail.com wrote:

> Recently, I felt the necessity (in IDL) of a subroutine that was coded extremely well in Fortran, with a skilled use of nested do loops over some matrices. I thought that the time was come to interface IDL and Fortran.

Nowadays I use /AUTO_GLUE in CALL_EXTERNAL. Here is a Fortran 77 example (I used Fortran 30 years ago :-):

test.f:

```
subroutine test(array, n,m)
integer*4 n, m
real*8 array(n,m)
write(*,*) array
end
```

gfortran -c -fPIC test.f

gfortran -shared -o test.so test.o

test.pro:

```
pro test
n=3!
m=4!
array=dindgen(m,n)
trash=call_external('test.so', 'test_', array, n, m, /auto_glue)
end
```

IDL> test

% Compiled module: TEST.

```
0.0000000000000000 1.0000000000000000 2.0000000000000000
3.0000000000000000 4.0000000000000000
0 5.0000000000000000 6.0000000000000000 7.0000000000000000
8.0000000000000000 9.0000000000
0000000 10.0000000000000000 11.0000000000000000
```

regards,
Lajos
