
Subject: Re: intel fortran compiler question on windows.
Posted by [Dae-Kyu Shin](#) on Tue, 08 Dec 2015 15:33:09 GMT
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I found solution.

Corrected c_code

```
__declspec(dllexport) void sum_array(int argc, void *argv[])
```

```
> Hi
>
> These days i'm working using IDL with Fortran.
>
> Here is the example code
>
> ---- fortran 77 code -----
>   SUBROUTINE SUM_ARRAY1(array, n, sum)
>     INTEGER*4 n
>     REAL*4 array(n), sum
>
>     sum=0.0
>     DO i=1,n
>       sum = sum + array(i)
>     ENDDO
>
>   END
>
>
> --- C wrapper code -----
> #include <stdio.h>
>
> void sum_array(int argc, void *argv[])
>
> {
>   extern void sum_array1_(); /* Fortran routine */
>   int *n;
>   float *s, *f;
>
>
>   f = (float *) argv[0]; /* Array ptrn */
>   n = (int *) argv[1]; /* Get # of elements */
>   s = (float *) argv[2]; /* Pass back result a parameter */
>
>
>   sum_array1_(f, n, s); /* Compute sum */
```

```
>
> }
>
>
>
> On linux system i've compile like this using intel compiler
>
> icc -fPIC -c c_code.c
> ifort -fPIC -c f_code.f
> ifort -shared *.o -o test.so
>
> Next run idl.
>   x = findgen(10)
>   sum = 0.0
>   S = call_external('test.so', $
>     'sum_array', X, n_elements(X), sum)
>
> it is working
>
>
>
>
> But on windows system.
>
> icl -c c_code.c
> ifort -c f_code.f
> ifort -dll *.obj -o test.dll
>
> then compile error arise.
> "c_code.obj : error LNK2019: sum_array1_~~~~"
> "test.dll : fatal error LNK1120:~~~~"
>
> So... what compile options i using for without compile error??
>
>
> Thanks.
```
