
Subject: intel fortran compiler question on windows.

Posted by [Dae-Kyu Shin](#) on Mon, 07 Dec 2015 08:36:25 GMT

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

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 pptr */
```

```
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.
