
Subject: IDL(rsi) + FORTRAN(digital) + DLL(windows nt)
Posted by [Michel Kruglanski\[2\]](#) on Thu, 20 May 1999 07:00:00 GMT
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I want to access Fortran subroutines from IDL V5.2 using the CALL_EXTERNAL function under Windows NT 4.0.
I plan to transform the fortran code into a dynamic library (DLL) with the help of the Digital Fortran V5.0C.
I have tried a single example but I have only succeeded to crash IDL.

My Fortran code (test.f):

```
integer*4 function test(argc, argv)
cDEC$ ATTRIBUTES DLLEXPORT :: TEST
cDEC$ ATTRIBUTES ALIAS:'UXIDL_' :: TEST
integer*4    argc, argv(*)
print*, 'Hello World'
test=0
end
```

It is compiled by the command:

```
> df /dll:test.dll test.f
```

The IDL instruction used is:

```
s = call_external( 'test.dll', 'UXIDL_' )
```

And then I get an application error that crashes IDL.

From different test, I know that

- IDL finds the DLL, otherwise it returns the message ERROR_MOD_NOT_FOUND,
- IDL finds the entry point, otherwise it returns the message ERROR_PROC_NOT_FOUND.

Note that, in the directory \RSI\IDL52\external\call_external\Fortran rsi provides an example but without make file (such make file is provided with the unix distributions).

Thank you for your help and suggestions

Michel Kruglanski
